



SEBBM19madrid

42nd Congress of the Spanish Society of
Biochemistry and Molecular Biology 16-19th july 2019

Programme



ORGANIZED BY:

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Development

Journal of
Cell Science

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Experimental
Biology

Disease Models
& Mechanisms

Biology Open



Welcome

CONTENTS

- 1 Welcome
- 2 Committees
- 3 Sponsorships
- 3 Key Information
- 5 Floor Plan
- 6 Poster Sessions
- 6 Poster Area
- 7 Commercial Exhibition
- 8 Satellite Activities
- 11 Social Programme
- 12 Congress Programme Overview
- 14 Congress Detailed Programme
- 31 Wednesday Posters Presentation
- 46 Thursday Posters Presentation
- 60 Authors Index

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Dear colleagues,

On behalf of the organising committee we are pleased to invite you to attend **“The 42nd Congress of the Spanish Biochemical and Molecular Biology Society”**, to be held in **Madrid on 16-19th July 2019**. The conference venue will be the renovated **Hotel Novotel Madrid Center**, located downtown Madrid at walking distance from The Retiro Park. The venue offers superb facilities that perfectly suit this annual meeting that aims to gather close to 700 researchers at different stages of their career and from diverse disciplines related with biology and biomedical sciences.

We aim to organise a balanced and top-quality scientific program, holding **Plenary talks** delivered by leading voices in Biochemistry and Molecular Biology, three parallel sessions of **Symposia**, workshops of the multiple **scientific groups** of the Society, and participation of many students and postdocs with **contributed talks** and **posters**.

A central part of the Congress is the three simultaneous **Symposia on Biomolecular Structure and Function; Gene Regulation and Cell Signalling; and Molecular Basis of Disease**. In this occasion, we have invited members of the Network of Associations of Spanish Researchers and Scientists Abroad (**RAICEX**) with the aim to highlight the extraordinary work of Spanish researchers working abroad. The response to the Symposia Call has been fantastic with speakers coming from 9 different countries and 3 continents.

Plenary lectures will be of maximum scientific quality. Professors **Robert Lefkowitz** (Nobel Prize in Chemistry 2012, Duke University, US), and **Taekjip Ha** (HHMI investigator, Johns Hopkins Biomedical Engineering, US) will attend the meeting and deliver the Opening and Closing Plenary lectures. These will cover topics such as signal transduction, receptors biology and molecular biophysics. In addition to these talks, the Congress will also have other plenary lectures such as the L'Oréal-UNESCO for Women in Science talk by Dr **Guadalupe Sabio** (Centro Nacional de Investigaciones Cardiovasculares, ES), the Leloir lecture given by Dr **Fabiana Drincovich** (CEFOBI, COCINET - Universidad Nacional de Rosario, AR) from the homologue Argentinian Society, and the Niemeyer lecture by Dr **Alejandra Loyola** (Head of the Epigenetics and Chromatin Lab at Fundación Ciencia & Vida, Santiago de Chile, CL) from the Chilean Society. These will cover topics such as signal transduction, receptors biology, plant biology, molecular basis of disease, and molecular biophysics. Satellite activities such as the Introduction to Research in Biochemistry and Molecular Biology Course, the annual Meeting of Coordinators of Undergraduate and Postgraduate Degrees in Biochemistry and related subjects, the Workshop on Professional Development for Young Researchers, and multiple Biochemistry in the City activities will be held during these days. The traditional Society Prizes (**Young Investigator-IBUB, Margarita Lorenzo-Lilly Foundation, Young SEBBM Member's Best Article-UCM, José Tormo Award-Bruker Española, Best Scientific Image of the Year-Eppendorf, Social Network Award-SEBBM and 4 Posters Prizes-FEBS Letters & SEBBM**) will be also an important part of the programme.

All participants are welcome to visit the stands of the sponsoring companies to which we truly thank for their support.

SEBBM Madrid 2019 is a great opportunity for young and senior researchers to establish new collaborations, foster networking relationships and make contacts for joint projects.

We encourage you to join us and we will be delighted to have you in Madrid, a city full of history and culture, in July 2019.

Best wishes,

Fernando Moreno-Herrero and Eduardo Oliver (Organisers)

Committees

Organising Committee

Fernando Moreno-Herrero. (Chair, Treasurer, Social Network). Centro Nacional de Biotecnología (CSIC), Madrid, ES

Eduardo Oliver. (Co-Chair, Symposia, Social Network). Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES

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Doce07 Ediciones. (Press & Media).

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Hugo Gutiérrez-de-Terán. Uppsala Universitet, Uppsala, SE

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Clara Aicart-Ramos. Centro Nacional de Biotecnología (CSIC), Madrid, ES

Inmaculada Yruela. Estación Experimental de Aula Dei (CSIC), Zaragoza, ES

Satellite Activ. Committees

Biochemistry in the City

Juan José Sanz. Centro Nacional de Biotecnología (CSIC), Madrid, ES

Introductory Course to Research in Biochemistry and Molecular Biology

María Lucas. Instituto de Biomedicina y Biotecnología de Cantabria (CSIC-UC-SODERCAN), Santander, ES

Ismael Mingarro. Universitat de València, Valencia, ES

Workshop on Professional Development for Young Researchers

Sergio P. Acebrón. Universität Heidelberg, Heidelberg, DE

Sara Alvira de Celis. University of Bristol, Bristol, UK

Eduardo Oliver. Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES

Meeting of Coordinators of Bachelor's and Master's Degrees in Biochemistry, Biotechnology and Biomedical Sciences

Cristina Casals. Universidad Complutense de Madrid, Madrid, ES

50th Anniversary FEBS Congress Madrid 1969

Isabel Varela-Nieto. Instituto de Investigaciones Biomédicas "Alberto Sols" (CSIC-UAM), Madrid, ES

M^a Ángeles Serrano-García. Universidad de Salamanca, Salamanca, ES

Inmaculada Yruela. Estación Experimental de Aula Dei (CSIC), Zaragoza, ES

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José Manuel Bautista. (Executive secretary & Outreach coordinator). Universidad Complutense de Madrid, Madrid, ES

Mariam Sahrawy. (Treasurer). Estación Experimental del Zaidín (CSIC), Granada, ES

Laura Herrero. (Consuls and Website). Universitat de Barcelona, Barcelona, ES

Ismael Mingarro. (Scientific Groups). Universitat de València, Valencia, ES

Aránzazu Sánchez-Muñoz. (Companies). Universidad Complutense de Madrid, Madrid, ES

Fernando Giráldez. (Young researchers). Universitat Pompeu Fabra, Barcelona, ES

Enrique Viguera. (Secondary teachers and students & Outreach). Universidad de Málaga, Málaga, ES

Inmaculada Yruela. (SEBBM Representative Congress) (Congress & Outreach). Estación Experimental de Aula Dei (CSIC), Zaragoza, ES



Sponsorships

SEBBM Protectors Members

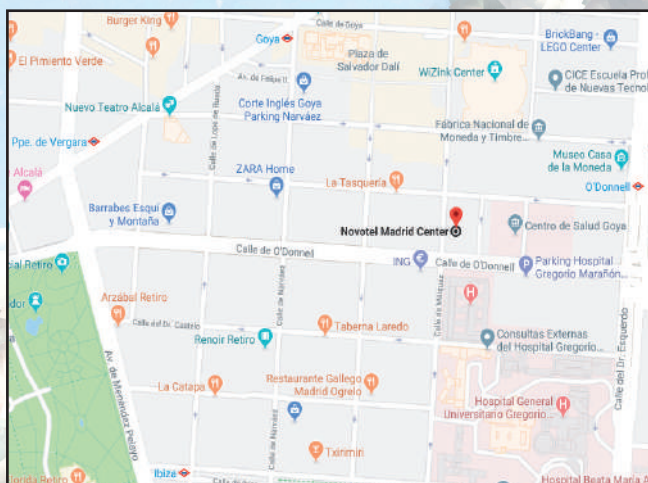


Plenary Lectures and Awards



Key Information

Map



Novotel Madrid Center Hotel
Calle de O'Donnell, 53, 28009 Madrid

from and arrive in Madrid. The Cercanías suburban train system connects Madrid with other towns and villages in the region running every day between 5-6 am till midnight. From Adolfo Suárez Madrid-Barajas Airport Terminal 4, the suburban train network runs to Príncipe Pío station, on the new C-1 line.

Metro: Running from 6 am to 1.30 am, it is the fastest way of getting around Madrid. Line 8 (Nuevos Ministerios-Airport T4) connects the Airport with the capital. Stations belonging to lines 2, 4, 6, and 9 are located close to the Congress.

Taxi: There is a flat rate of 30 € for services between the Airport and the city centre (within the M-30 ring road).

Transport and access

By Plane: Adolfo Suárez Madrid-Barajas airport has four terminals, T1, T2, T3 and T4.

By Road: Madrid is connected to the main motorways: A-1, A-2, A-3, A-4, A-5 and A-6. Adolfo Suárez Madrid-Barajas Airport is linked by road to the main Madrid access routes: M-40, A-2, M-11, R-2 and A-1.

Bus: Méndez Álvaro and Avda. de América are the main coach stations. Various inter-urban coaches depart from Aluche, Conde de Casal, Moncloa, Pza. de Castilla, Pza. Elíptica, Príncipe Pío and Ronda de Atocha to link the city with surrounding towns in the region and Central Spain. A broad network of city buses operates from 6 am till 11.30 pm. After 11.30 pm, night buses are available. The Airport Express shuttle express line operates 24 h a day.

Train: Mid-, Long-Distance, High Speed and Suburban trains (Renfe railway network) depart from and arrive at the two main stations: Atocha and Chamartín. International trains to and from France and Portugal also depart



Key Information

General information

Registration fees

The basic registration fee for Congress attendants includes access to the conference meeting rooms, bag and Congress materials, the right to present a communication, being first accepted by the Organising Committee, handed out programme with titles and authors of all communications, online access to the *Book of Abstracts*, the Welcome Cocktail and VAT 21%. The registration fee does not include lunch boxes, the access to the Congress Dinner (Gala Dinner) which should also be selected when registering if you wish to attend or any other concept not indicated above.

Certificate of Attendance

The certificate of attendance will be delivered after completing an online survey once the Congress finishes.

Book of Abstracts

The communications presented to the Congress can be consulted in the *Book of Abstracts* at the Congress website.

Document delivery times

Registration desk is open every day from 9:00 to 19:00 h. Posters should be mounted according to the schedule below:

- Poster presentation dated on Wednesday 17th:
from Tuesday 16th at 20:30 to Wednesday 17th at 20:30 h
- Poster presentation dated on Thursday 18th:
from Wednesday 17th at 20:30 to Thursday 18th at 20:30 h

Refreshments and Catering

Lunch boxes requested at your registration can be collected at the designated points of the Novotel Madrid Center Hotel.

Internet

The Wi-Fi service in the Novotel Madrid Center Hotel is free throughout the congress.

Contacts

Scientific Secretariat

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Tel.: 638 031 462

Note:

Accepted communications have been organised into scientific groups. The *Book of Abstracts* is available on-line:

<https://congresosebbm.madrid2019.es/>





Floor Plan

Novotel Madrid Center Hotel

Level -1





Poster Sessions

The posters of the 42nd SEBBM Congress are displayed on panels and should be mounted according to the schedule below:

Scientific Groups	Presentation date	Mounting date	Removal date
G01, G02, G03, G04, G06, G07 G08, G10, G12, G13, G14	Wednesday, July 17 th	Tuesday 20:30 h	Wednesday 20:30 h
G05, G09, G11, G15 G16, G17, G18	Thursday, July 18 th	Wednesday 20:30 h	Thursday 20:30 h

Presenting authors with **even numbers** should stand at their poster from 18:30 to 19:30 h.

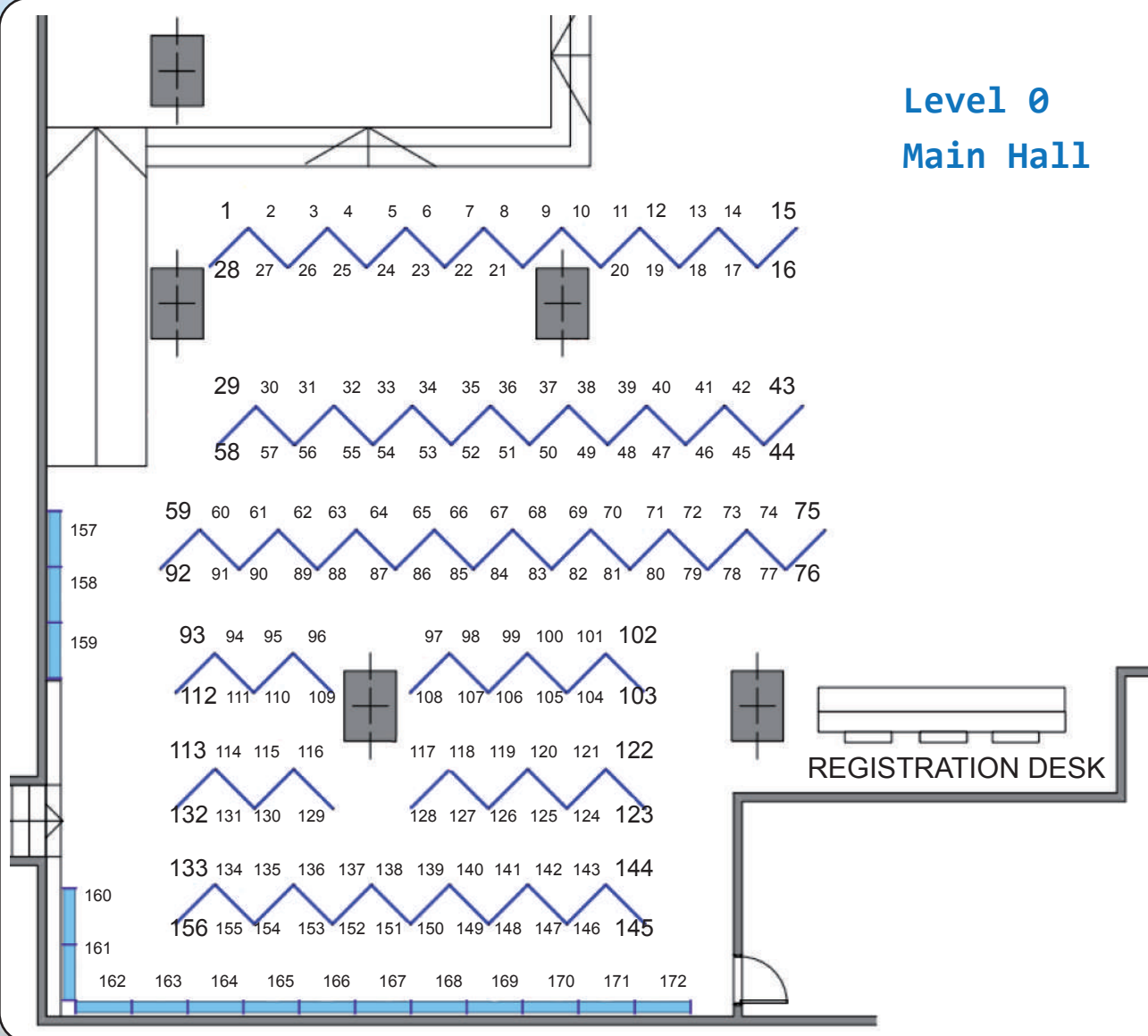
Presenting authors with **odd numbers** should stand at their poster from 19:30 to 20:30 h.

Notes:

The final numbering of the posters presented and approved by the Organising Committee has been published in the *Book of Abstracts* at the Congress website <https://congresosebbm.madrid2019.es/>

Poster Area

Level 0 Main Hall





Commercial Exhibition

Exhibitors

eppendorf

CONTROLTECNICA

GILSON

Agilent

BIO-RAD

Novogene

MDPI

QUIMIGEN

MERCK

greiner
BIO-ONE

vitro
master diagnóstica®

Werfen
Diagnostic Solutions for Life

VWR
part of avantor

ecogen

tebu-bio

nzytech
genes & enzymes

paralab BIO

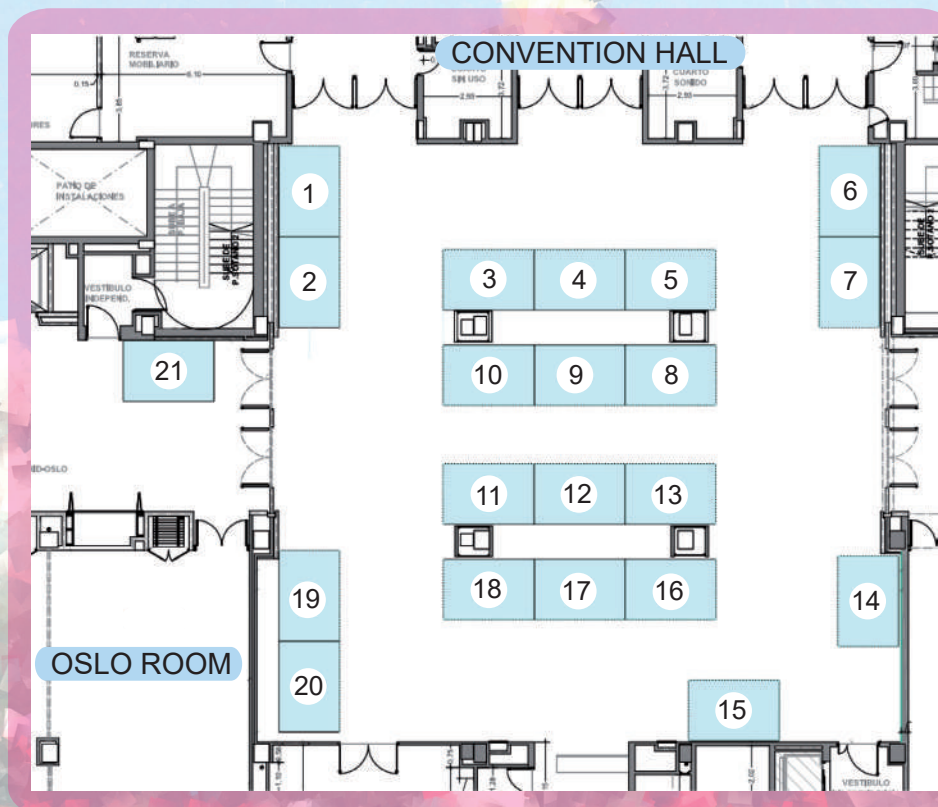
macrogen
Humanizing Genomics

BIOGEN

Exhibition Hall

Level -1

Exhibitors



Booths	Nº
Eppendorf	1, 2
Controltecnica	3
Paralab	4
Vitro	5
Greiner Bio-One	6
Ecogen	7
VWR	8
Macrogen	9
Biorad	10
Biogen	11
Gilson	12
Nzytech	13
Merck	14
MDPI	15
Agilent	16
Werfen	17
Tebu-bio	18
Quimigen	19
Novogene	20
SEBBM	21



Satellite Activities

50th Anniversary FEBS 1969

50th Anniversary FEBS Congress Madrid 1969

Venue: Different Locations

Coordinators: **Isabel Varela-Nieto** (Instituto de Investigaciones Biomédicas "Alberto Sols" (CSIC-UAM), Madrid, ES), **M^a Ángeles Serrano-García** (Universidad de Salamanca, Salamanca, ES) and **Inmaculada Yruela** (Estación Experimental de Aula Dei (CSIC), Zaragoza, ES)

This year the SEBBM congress coincides with the fiftieth anniversary of the celebration in Madrid of the VI Congress of the European Federation of Societies of Biochemistry, which brought together 2.200 scientists from around the world, including eight Nobel prizes, Severo Ochoa, Ernst B. Chain (England), Carl F. Cori (United States), Sir Hans A. Krebs (England), Fritz Lipmann (United States), Feodor Lynen (Germany), Frederick Sanger (England) and Hugo Theorell (Sweden). In addition to the most famous national and international personalities of the Biochemistry of the time, Grande Covián, Grisolia, Oparin, Oró, Sols, Wyman and others. We have organised the following activities to commemorate this congress and to honour the founders of the current Spanish molecular biochemistry and molecular biology.

El congreso FEBS 1969 de Madrid: semillero y expansión de la bioquímica en España

July 15th, from 19:00 to 20:00 h

Venue: Real Academia de Farmacia (C/de la Farmacia, 9-11, Madrid)

19:00: **Antonio Doadrio Villarejo**, RANF chair.

19:05: **Félix M^a Goñi Urcelay**, SEBBM chair.

19:10: **María Cascales Angosto**, RANF academic, SEBBM honourable member.

19:25: **María Magdalena Ugarte**, RANF academic, SEBBM honourable member.

19:40: **Federico Mayor Menéndez**, RANF academic, SEBBM honourable chair, FRA scientific council chair.

19:55: **María Teresa Miras Portugal**, RANF honourable chair, SEBBM honourable member.

The session will be recorded and broadcast on RANFTV.
<https://www.ranf.com/>

Opening ceremony of the SEBBM Congress

July 16th, at 17:00 h

Venue: Convention Hall

• *"La VI reunión de FEBS en Madrid: reencuentro con el pasado"*

Carlos Gancedo, SEBBM former President (Instituto de Investigaciones Biomédicas "Alberto Sols" (CSIC-UAM), Madrid, ES).

• *"FEBS 1969 : Un impulso decisivo para la bioquímica en España"* a **commemorative video**.

On screen exhibition of historical photographs, data and memories

From July 16th to July 19th

Venue: Lobby, Novotel Madrid Center Hotel (level -1)

More information on the FEBS VI, Madrid 1969 congress available at:

<https://www.sebbm.es/revista/> and

<https://www.sebbm.es/web/es/divulgacion/mujeres-ciencia/retratos>

Professional Development

Workshop on Professional Development for Young Researchers

July 16th, from 9:00 to 16:45 h

Venue: Bahía-La Paz-Caracas Rooms

Coordinators: **Sergio P. Acebrón** (Universität Heidelberg, Heidelberg, DE), **Sara Alvira de Celis** (University of Bristol, Bristol, UK) and **Eduardo Oliver** (Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES)

Being aware that only one in four post-doctoral students get a position as Principal Investigator, the **"Workshop on Professional Development for Young Researchers"** aims to provide strong arguments to encourage the idea that doctoral training not only serves to develop a complete academic career, but also to acquire a variety of knowledge, behaviours and attributes key to a successful career within or outside the world of science. These non-classical scientific routes offer a different career and projection that many young doctors can achieve and perform satisfactorily.

The objectives of the Workshop are:

1. To emphasize the value of the development of transferable skills during and after the PhD as a tool to access to non-academic careers.
2. To show the different professional opportunities for which the PhD title in Sciences offers an adequate training.
3. To serve as a meeting and information point between young researchers and different experts in other positions within and outside the academic career.
4. To open a discussion forum among young researchers about other job opportunities that may awaken their vocation and how to access.

The workshop is designed in two parts:

Short talks: Experts from different fields outside the academic pathway will exhibit alternative routes related with Science and will discuss with the participants their personal interest, motivation and difficulties of their transition from an academic position to a different professional career.



Satellite Activities

Practical workshops: Three eligible participative workshops of 2 hours will cover and develop strategies for a professional transition to a non-academic career, opportunities abroad within and outside academia or steps and challenges to develop translational science and become a scientist entrepreneur.

Registration is required.

See Congress Detailed Programme for more information.

Meeting of Coordinators

Meeting of Coordinators of Bachelor's and Master's Degrees in Biochemistry, Biotechnology and Biomedical Sciences

July 16th, from 9:00 to 13:45 h

Venue: Londres A+B Rooms

Coordinator: **Cristina Casals** (Universidad Complutense de Madrid, Madrid, ES)

This meeting will be focused on the educational challenges in the molecular life sciences in undergraduate and graduate degrees. In addition, bachelor's and master's degrees in Molecular Biosciences will be analysed as well as the plans of study, formative experience, results, and career trajectories of the graduates.

See Congress Detailed Programme for more information.

Introductory Course (in Spanish)

Introductory Course to Research in Biochemistry and Molecular Biology

July 16th, from 9:00 to 16:45 h

Venue: París A Room

Coordinator: **María Lucas** (Instituto de Biomedicina y Biotecnología de Cantabria (CSIC-UC-SODERCAN), Santander, ES) and **Ismael Mingarro** (Universitat de València, Valencia, ES)

This course is a four-day program, consisting of one day Introductory Course to Research in Biochemistry and Molecular Biology, three days of assistance to the 42nd SEBBM Congress and the participation in a mentoring programme. This course will provide undergraduate students insight into latest research in Biochemistry and Molecular Biology and information for a future career planning in this field.

The first day course will consist of several seminars that will provide an overview of current research in the field of biosciences in Spain. The opportunities and strategies for the design of the research career in our country will be addressed. It will include a round-table discussion and opportunities for the students to interact with prestigious researchers.

See Congress Detailed Programme for more information.

SEBBM-Young Researchers

July 17th, from 11:00 to 12:00 h

Venue: Viena-Madrid-Oslo Rooms

Coordinator: **Fernando Giráldez** (Universitat Pompeu Fabra, Barcelona, ES)

This meeting aims to publicise the activities addressed to the youngest members of the SEBBM and to listen to their suggestions and comments, as well as plan new initiatives with them. Another objective is to renew the network of junior consuls so that they can actively participate in society and represent it in the corresponding forums. Special attention will also be given to the connection of young members with the dissemination and training activities of the SEBBM.

Registration is required.

Meet the Nobel

July 17th, from 18:30 to 19:30 h

Venue: Convention Hall

Moderator: **Pere Estupinyà** (presenter of the TV programme "El Cazador de Cerebros" (TVE), ES)

'Meet the Nobel' aims to create the perfect environment for students and young researchers to ask the **Nobel laureate Prof. Robert Lefkowitz** about science, research and life. This colloquium/interview will be moderated by the science communicator **Pere Estupinyà**, presenter of the TV programme "El Cazador de Cerebros" (TVE).

Registration is required.

ReNIM Workshop

Nanomedicine and Molecular Imaging Workshop

July 18th, from 11:00 to 12:00 h

Venue: París A+B Rooms

Coordinator: **Beatriz Salinas** (Instituto de Investigación Sanitaria Gregorio Marañón, Madrid, ES)

The Madrid Network of Nanomedicine in Molecular Imaging (ReNIM), is a research network supported by Comunidad de Madrid, project "S2017/BMD-3867 – RENIM-CM", co-funded by European Structural and Investment Fund. The groups belonging to ReNIM apply nanotechnological techniques to contribute to the advancement of the so-called "molecular image". These tools, at the service of biomedical research, will allow Medicine to advance towards earlier and more accurate diagnoses, as well as to better understand biological and biomedical processes. The objectives of ReNIM range from the synthesis of nanoparticles and nanostructures capable of joining different targets, visible to magnetic resonance and PET techniques, until their validation in pathophysiological processes associated with cancer and cardiovascular diseases.

For more information:

<https://www.renim-cm.net/>



Satellite Activities

Biochemistry in the City

Venue: Different locations

Coordinator: **Juan José Sanz** (Centro Nacional de Biotecnología (CSIC), Madrid, ES)

Biochemistry in the city is a project of outreach activities for the general public associated with the celebration of the 42nd Congress of the SEBBM.

We aim to bring the work of scientists closer to society, particularly in the areas of Biochemistry and Molecular Biology, and highlight the importance of these disciplines in unsuspected areas of our daily life. This "surprise effect" is important to awaken the curiosity of the public and convey the idea that science is present in all our tasks, thus increasing the scientific culture of the attendees and their appreciation of the value of research.

Exhibition: "Las moléculas que nos comemos"

From July 1st to July 31st

Venue: Biblioteca Pública Municipal Eugenio Trías - Casa de Fieras de El Retiro (Parque de El Retiro)

In this exhibition, the visitor is offered a tour of different aspects related to our diet. Through 11 panels of educational content, with simple texts and illustrative and entertaining images, we show the importance of food for our life and our health. We explain how the brain controls our way of tasting food ("neuroscience of taste"). We also explain how science is behind familiar actions such as food cooking. Special emphasis is placed on the biochemical processes present in the "molecular gastronomy", which today is known thanks to the work of great international chefs. These consists on the application of physical-chemical scientific principles to the domestic cooking. Likewise, it will be explained how some food intolerances and health problems can be caused by an incorrect diet.

Leisure and scientific outreach: "Molecular cocktail"

From July 15th to July 21st

Venue: Platea (C/Goya, 5-7, Madrid)

As part of our objective of bringing science closer to the public and as a complement to the Cooking Show activity, a cocktail will be offered at a special price to congress attendees and all Platea customers, during the week of the 42nd Congress of the SEBBM. This "Molecular Cocktail", sophisticated and innovative, will have a biochemical foundation and will offer us an experience full of sensations. This combination of taste enjoyment and science will allow us to remember how science is behind all aspects of daily life, including leisure, and will make us realise the importance of supporting research to improve our society.

Gastronomic experience: "Molecular inspired tapas at the heart of Madrid"

From July 15th to July 21st

Venue: Selected Restaurants of Plaza Mayor and Madrid de los Austrias:

- Restaurante La Bola (C/de la Bola, 5)
- Café de Chinitas (C/de Torija, 7)
- El Reloj de Harry & Sally (C/del Reloj, 16)
- El Mollete de Harry & Sally (C/de la Bola, 4)
- Taste Gallery (Plaza de San Miguel, 8)
- Cubiertos de Gloria (C/Toledo, 28)
- Restaurante Los Galayos (C/de Botoneras, 5)
- Casa María (C/de la Cava Alta, 7)
- Metro Bistro – Plaza Mayor (C/Imperial, 3)
- Hotel Pestana Plaza Mayor (C/Imperial, 8)

In collaboration with Gremio de Restauradores de Plaza Mayor and Madrid de los Austrias, this experience of outreach gastronomy is offered. During the week of celebration of the 42nd Congress of the SEBBM, you could enjoy "molecular inspired tapas" in selected restaurants at the heart of Madrid; places with great culinary tradition, innovative elaborations of high quality cuisine at special prices. **Jorge Cuéllar**, a researcher at the National Center of Biotechnology and participant of the TV programme MasterChef 2, will prepare these recipes. A brief scientific explanation of each "tapa" will be included regarding the molecular inspiration of these snacks and the biochemical processes that take place during their elaboration.

Outreach talk: "La Ciencia contra el crimen: mitos y realidades del análisis de ADN"

July 17th, from 18:30 to 20:00 h

Venue: Salón de Actos. Biblioteca Pública Municipal Eugenio Trías - Casa de Fieras (Parque de El Retiro)

Speaker: **Lourdes Prieto** (DNA specialist of the Spanish Police)

In recent years, the application of molecular biology techniques to police investigation has helped to improve the identification of offenders and victims. Popular television shows such as CSI have contributed to make people aware of these powerful technologies. But sometimes, they also convey false ideas and myths about how scientific police works. What information can really be obtained from a DNA test? How can this information be used in a trial? An expert from the Spanish scientific police will explain everything you always wanted to know about the real CSI but you were afraid to ask.



Satellite Activities

Round Table: “Qué es la epigenética y cómo afecta a nuestra salud”

July 18th, from 18:30 to 20:00 h

Venue: Salón de Embajadores. Casa de América, Palacio de Linares (Plaza Cibeles, s/n, Madrid)

Speakers: **Alejandra Loyola** (Fundación Ciencia & Vida, Santiago de Chile, CL), **María Fabiana Drincovich** (CEFOBI, COCINET-Universidad Nacional de Rosario, AR), **Lorena Aguilar-Arnal** (Instituto de Investigaciones Biomédicas, Universidad Nacional Autónoma de México, Ciudad de México, MX) and **Mónica Lamas** (Centro de Investigación y de Estudios Avanzados, Ciudad de México, MX)

The genetic information contained in the DNA of our cells serves to build our body and develop the characteristic functions of life. Until now it was believed that all the necessary information was encoded only in the nucleotide sequences that make up our genes: the reading order of the four ATCG bases of the genetic code. But today we know that there is something else. There are chemical modifications that, without altering this DNA sequence, control its activity: they are something like molecular labels that determine when genes are activated or not. Epigenetics is the part of biology that studies those modifications of DNA and the proteins associated with it. External factors such as diet or pollution influence such epigenetic modifications and alterations in them can cause diseases. Therefore, it is important to understand the mechanisms involved in the regulation of these molecular markers. In this debate we will have four Ibero-American scientific experts in this field, who will inform us about the latest advances in the study of epigenetics.

Cooking show: “Cocina Molecular”

July 19th, from 18:00 to 20:00 h

Venue: Escenario principal, Platea (C/Goya, 5-7, Madrid)

Speaker: **Jorge Cuéllar** (Centro Nacional de Biotecnología (CSIC), Madrid, ES and participant of MasterChef 2)

Since a few years, biochemistry has entered the kitchen. Actually, it was always there even if we did not know it. Humans cook food to make it more digestible, but also to increase the pleasant sensation produced by its consumption and as a social activity that creates cultural bonds. What we do when cooking is to transform the properties of foods, which are no more than organic molecules, through the use of chemical reactions based mainly on temperature. The better understanding of these complex reactions and the use of laboratory techniques now allow us to produce increasingly sophisticated elaborations that add new sensations to the gastronomic experience. We will approach this molecu-

Social Programme

lar cooking by the hand of a biochemical expert who is also an amateur chef: **Jorge Cuéllar**, researcher at the National Center of Biotechnology and participant of the TV programme MasterChef 2. Jorge will explain the biochemical basis of cooking and will also talk about the importance of understanding the biology of nutrients for a healthy diet. All this while preparing live three of his molecular elaborations.

Invitation is required.

SEBBM Honourable Member Appointment

July 19th, at 13:30 h

Venue: Convention Hall

Prof. Mariano Barbacid will receive the medal as “Socio de honor SEBBM” presented by **Prof. Félix Goñi** during the Closing Ceremony.

Welcome Reception

July 16th, at 19:00 h

Venue: Novotel Madrid Center Hotel (level 0)

Welcome reception is included for all participants.

Cocktail with exhibitors (by invitation)

July 18th, at 20:30 h

Venue: El 38 de Larumbe (4th floor, Centro Comercial ABC Serrano, C/Serrano, 61, Madrid)

Congress Dinner

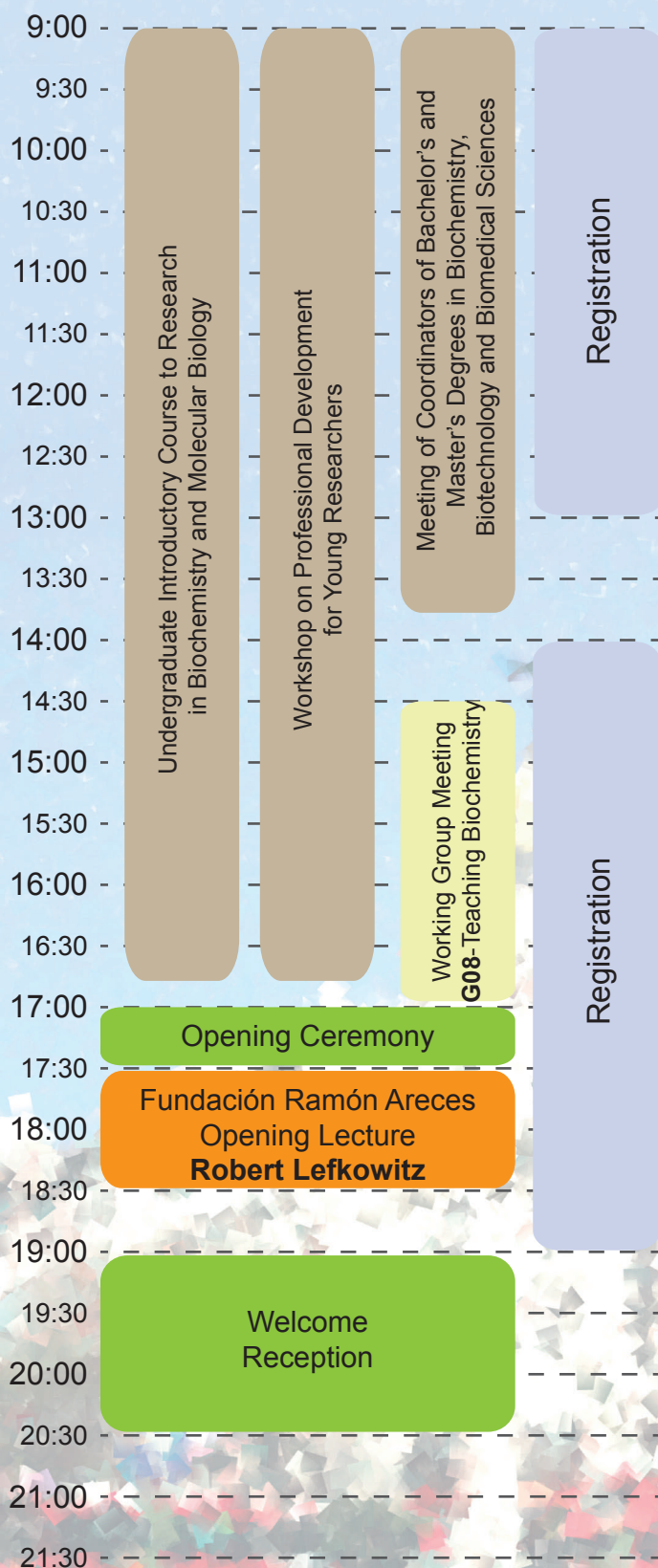
July 18th, at 21:00 h

Venue: El 38 de Larumbe (4th floor, Centro Comercial ABC Serrano, C/Serrano, 61, Madrid)

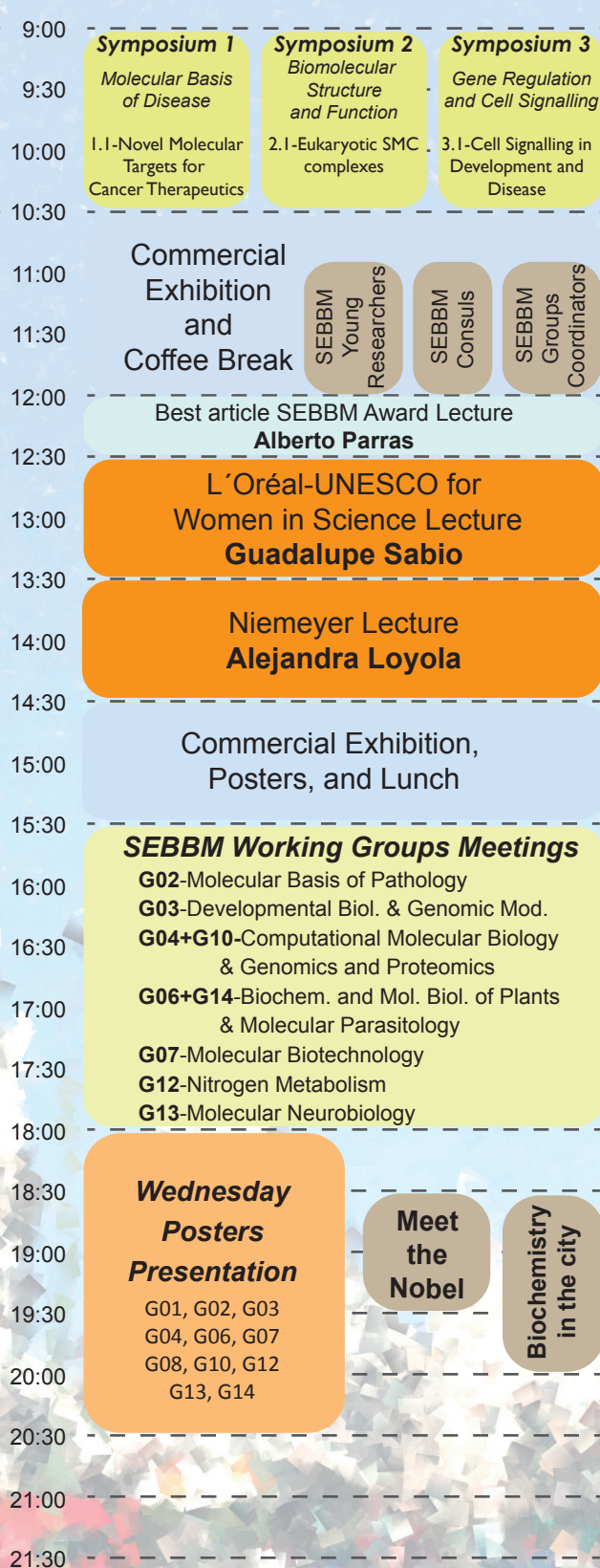


Congress Programme Overview

Tuesday, July 16th



Wednesday, July 17th





Congress Programme Overview

Thursday, July 18th

9:00	Symposium 1 <i>Molecular Basis of Disease</i>	Symposium 2 <i>Biomolecular Structure and Function</i>	Symposium 3 <i>Gene Regulation and Cell Signalling</i>
9:30			
10:00	1.2-Invertebrate Models of Human Biology	2.2-Recent Advances in Protein-RNA Machineries	3.2-DNA Replication, Repair and Genomic Instability
10:30			
11:00	Commercial Exhibition and Coffee Break		
11:30			
12:00	Young Investigator IBUB Award Lecture Ana Belén Sanz		
12:30	Lilly Foundation Margarita Lorenzo Lecture Beatriz Gómez-Santos		
13:00	Leloir Lecture María Fabiana Drincovich		
13:30			
14:00	Commercial Exhibition, Posters, and Lunch		
14:30			
15:00	SEBBM Working Groups Meetings G05-Chemical Biology G09-Protein Structure and Function (J.Tormo award) G11-Molecular Mechanisms in Cell Membranes: Physiology, Pathology and Biotechnology G15-Free Radicals and Oxidative Stress G16-Gene Expression Regulation and Genome Dynamics G17-Metabolic Regulation and Nutrition G18-Cellular Signaling		
15:30			
16:00	Thursday Posters Presentation G05, G09, G11 G15, G16 G17, G18		
16:30			
17:00	SEBBM General Assembly		
17:30			
18:00	Biochemistry in the city		
18:30			
19:00	Cocktail with Exhibitors (by invitation)		
19:30			
20:00	Congress Dinner		
20:30			
21:00			
21:30			

Friday, July 19th

9:00	Symposium 1 <i>Molecular Basis of Disease</i>	Symposium 2 <i>Biomolecular Structure and Function</i>	Symposium 3 <i>Gene Regulation and Cell Signalling</i>
9:30			
10:00	1.3-New Insights into the Epigenetic Regulation of Cell Fate and Disease	2.3-Structure, Function, and Signal Transduction of G-protein coupled receptors	3.3-Signalling Pathways in Inflammation
10:30			
11:00	Commercial Exhibition and Coffee Break		
11:30			
12:00	Awards Ceremony		
12:30	Alberto Sols - Fundación BBVA Closing Lecture Taekjip Ha		
13:00			
13:30	Closing Ceremony		
14:00			
14:30			
15:00			
15:30			
16:00			
16:30			
17:00			
17:30			
18:00	Biochemistry in the city		
18:30			
19:00			
19:30			
20:00			
20:30			
21:00			
21:30			



Congress Detailed Programme

Tuesday, July 16th, 2019

09:00 - 16:45 h

SATELLITE ACTIVITY

Caracas

La Paz

Bahía

Workshop on Professional Development for Young Researchers

Coordination: **Sergio P. Acebrón** (Universität Heidelberg, Heidelberg, DE)
Sara Alvira de Celis (University of Bristol, Bristol, UK)
Eduardo Oliver (Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES)

09:00

Arrival of participants

09:15

Welcome and workshop overview

Eduardo Oliver (Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES)
Sergio P. Acebrón (Universität Heidelberg, Heidelberg, DE)
Sara Alvira de Celis (University of Bristol, Bristol, UK)

09:30

Jobs in Science Communication & Consultancy

Researcher, editor & grant programme
David del Álamo (EMBO, Heidelberg, DE)

10:00

Researcher & Scientific journalist

Ángela Bernardo (CIVIO, Madrid, ES)

10:30

Science consultancy & communication

Lucas Sánchez (Scienseed, Madrid, ES)

11:00

Coffee break

11:30

Jobs in Science Management & International relationships

Science management & international affairs
Carolina Pola (Centro Nacional de Investigaciones Oncológicas, Madrid, ES)

12:00

Science in Public Policy & Diplomacy

Lorenzo Melchor (Science Consultant, Madrid, ES)

12:30

Jobs in University & Industry beyond the lab

R&D Manager

Beatriz Maroto López (NIMGenetics, Madrid, ES)

13:00

Teaching in a private University

Elena Pascual Vega (Universidad Francisco de Vitoria, Madrid, ES)

13:45

Lunch

14:45

Practical Workshops

Bahía

How to get out of the Ivory Tower? Strategies for a PhD for a good professional transition

Lorenzo Melchor (Science Consultant, Madrid, ES)

La Paz

Applications for Postdoctoral positions abroad

Sergio P. Acebrón (Universität Heidelberg, Heidelberg, DE)

Caracas

Abilities and strategies for entrepreneurship

Carlos Cosculluela (Fundación Damián Rodríguez Olivares, Madrid, ES)



Congress Detailed Programme

09:00 - 16:45 h

París A

SATELLITE ACTIVITY

Introductory Course to Research in Biochemistry and Molecular Biology

Coordination & Moderators: **María Lucas** (Instituto de Biomedicina y Biotecnología de Cantabria (CSIC-UC-SODERCAN), Santander, ES)

Ismael Mingarro (Universitat de València, Valencia, ES)

09:00

Welcome and introduction to the Course

Fernando Moreno-Herrero (Centro Nacional de Biotecnología (CSIC), Madrid, ES)

Félix Goñi (Universidad del País Vasco, Bilbao, ES)

09:10

Manual de instrucciones para ser doctor

María Lucas (Instituto de Biomedicina y Biotecnología de Cantabria (CSIC-UC-SODERCAN), Santander, ES)

09:40

Herramientas de investigación en internet

Guillermo Abascal-Palacios (The Institute of Cancer Research, London, UK)

10:10

Editoriales científicas: de la necesidad...negocio

Ismael Mingarro (Universitat de València, Valencia, ES)

10:30

Lo que ayer fue una ilusión y mañana será un sueño, hoy lo tengo en mis manos

Manuel Espinosa (Centro de Investigaciones Biológicas (CSIC), Madrid, ES)

11:00

Coffee break

11:30

Investigar en un hospital... más allá de la quietud

Eduardo López Collazo (Instituto de Investigación Sanitaria del Hospital Universitario La Paz, IdiPAZ, Madrid, ES)

12:00

Investigación en el sector privado: Innovación para el cuidado de la salud

Covadonga Pañeda (Exeltis)

12:30

Taller práctico en investigación biomédica para la búsqueda científica de nuevas estrategias terapéuticas

Ana V. Villar (Instituto de Biomedicina y Biotecnología de Cantabria (CSIC-UC-SODERCAN), Santander, ES)

13:45

Lunch

14:45

Biorremediación, bioplásticos y sonido, tres proyectos abordados desde la Biología Sintética

Gonzalo Durante (Centro de Investigaciones Biológicas (CSIC), Madrid, ES)

15:30

Perspectivas actuales y diseño de la carrera investigadora en bioquímica y biología molecular en España

Coloquio con los conferenciantes

16:00

Meeting with Mentors

"Visit the website to see additional activities of the Introductory Course along the Congress"

09:00 - 13:45 h

Londres A+B

SATELLITE ACTIVITY

Meeting of Coordinators of Bachelor's and Master's Degrees in Biochemistry, Biotechnology and Biomedical Sciences

Coordination: **Cristina Casals** (Universidad Complutense de Madrid, Madrid, ES)

09:00

Arrival of participants



Congress Detailed Programme

09:15	<i>Welcome and presentation by the Secretary of SEBBM</i> José Manuel Bautista (Universidad Complutense de Madrid, Madrid, ES)
09:30	<i>Educational challenges in the molecular life sciences in undergraduate and graduate degrees</i>
11:00	Coffee break
11:30	<i>Analysis of bachelor's and master's degrees in Molecular Biosciences.</i> <i>Plans of study, formative experience, results, and career trajectories of the graduates.</i>
13:00	<i>Debate and conclusions</i>
13:45	Lunch

14:30 - 17:00 h

Oslo

WORKING GROUPS MEETING

G08 Teaching Biochemistry

Coordination: **Néstor V. Torres Darias** (Facultad de Biología, Univ. de La Laguna, Santa Cruz de Tenerife, ES)

14:30	G08-01-OI <i>¿Pueden los alumnos diseñar y ejecutar sus experimentos en prácticas?</i> Juan Arredondo Lamas (Facultad de Medicina, Universidad Autónoma de Madrid, Madrid, ES)
14:50	G08-02-OI <i>Aprendizaje cooperativo para diseñar un sencillo proyecto de investigación</i> Marina Lasa Benito (Facultad de Medicina, Universidad Autónoma de Madrid, Madrid, ES)
15:10	G08-03-OI <i>Enseñar para aprender Bioquímica. Un proyecto de aprendizaje-servicio para alumnos del Grado en Veterinaria</i> María de Izaskun Ibarguren Ariceta (Facultad de Veterinaria, Universidad de Santiago de Compostela, Santiago de Compostela, ES)
15:30	G08-04-OI <i>Enseñanza de la cinética enzimática en la modalidad de Aula Invertida</i> Guido Santos Rosales (Facultad de Ciencias, Univ. de La Laguna, Santa Cruz de Tenerife, ES)
15:50	<i>Discussion</i>
16:50	<i>Conclusions</i>

17:00 - 17:30 h

Convention Hall

Opening Ceremony

The Opening Ceremony will commemorate the **50th Anniversary of the 1969 FEBS Congress** celebrated in Madrid. The event will be presented by **Prof. Carlos Gancedo** (Instituto de Investigaciones Biomédicas "Alberto Sols" (CSIC-UAM), Madrid, ES) and includes a **commemorative video**

17:30 - 18:30 h

Convention Hall

Fundación Ramón Areces Opening Lecture

Introduction: **Federico Mayor Menéndez** (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)

PL01 *My fifty years (and counting) in GPCR Research: From Binding to Biophysics*
Robert J. Lefkowitz (Nobel Awardee, Duke University School of Medicine, Durham, US)

19:00 - 20:30 h

Level 0

Welcome Reception



Congress Detailed Programme

Wednesday, July 17th, 2019

09:00 - 10:30 h

Convention
Hall

Symposium 1

Molecular Basis of Disease

Symposium 1.1 Novel Molecular Targets for Cancer Therapeutics

Coordination: **Piero Crespo** (Instituto de Biomedicina y Biotecnología de Cantabria, (CSIC-UC-SODERCAN), Santander, ES)

09:00

S1.1-1 *RAS subcellular localization as an orchestrator of tumour proliferative vs metastatic potential: an antagonistic tale*

Piero Crespo (Instituto de Biomedicina y Biotecnología de Cantabria, (CSIC-UC-SODERCAN), Santander, ES)

09:30

S1.1-2 *Targeting quantitative control of MAPK signalling in lung adenocarcinoma*

David Santamaría (Institut Européen de Chimie et Biologie, INSERM, Bordeaux, FR)

10:00

S1.1-3 *Novel roles of ROCK-Myosin II signalling in cancer*

Victoria Sanz-Moreno (Barts Cancer Institute, London, UK)

09:00 - 10:30 h

Viena
Madrid
Oslo

Symposium 2

Biomolecular Structure and Function

Symposium 2.1 Eukaryotic SMC complexes

Coordination: **Luis Aragón** (MRC London Institute of Medical Sciences/Imperial College London, London, UK)

09:00

S2.1-1 *SMC-dependent loops on chromosome require chromatin remodelling*

Luis Aragón (MRC London Institute of Medical Sciences/Imperial College London, London, UK)

09:30

S2.1-2 *Specific contributions of variant cohesin complexes to genome folding*

Ana Losada (Centro Nacional de Investigaciones Oncológicas, Madrid, ES)

10:00

S2.1-3 *Surveillance of cohesin-mediated chromosome structure regulates meiotic progression*

Enrique Martínez-Pérez (MRC London Institute of Medical Sciences/Imperial College London, London, UK)

09:00 - 10:30 h

Caracas
La Paz
Bahía

Symposium 3

Gene Regulation and Cell Signalling

Symposium 3.1 Cell signalling in development and disease

Coordination: **Sergio P. Acebrón** (COS/Universität Heidelberg, Heidelberg, DE)

09:00

S3.1-1 *The roles of Wnt signalling in mitosis*

Sergio P. Acebrón (COS/Universität Heidelberg, Heidelberg, DE)

09:30

S3.1-2 *Regulation of anisotropic growth by two orthogonal signalling centres*

Marco Milán (IRB Barcelona, Barcelona, ES)

10:00

S3.1-3 *The complexity of the EMT: beyond cell migration in development and disease*

Ángela Nieto (Instituto de Neurociencias de Alicante (CSIC-UMH), Alicante, ES)

10:30 - 12:00 h

Exhibition Hall
Level 0

Commercial exhibition, posters and coffee break

Congress Detailed Programme

11:00 - 12:00 h **SEBBM Groups Coordinators Meeting**
Londres A

11:00 - 12:00 h **SEBBM Consuls Meeting**
París A

11:00 - 12:00 h **SATELLITE ACTIVITY**
SEBBM-Young Researchers Meeting
Viena
Madrid
Oslo

12:00 - 12:30 h **Best article SEBBM Award Lecture (sponsored by UCM)**
Convention Hall
Introduction: **José Manuel Bautista** (Universidad Complutense de Madrid, Madrid, ES)
PL02 *Role of CPEB4 in autism gene expression*
Alberto Parras (Centro de Biología Molecular Severo Ochoa (CSIC-UAM) & Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas, ISCIII, Madrid, ES)

12:30 - 13:30 h **L'Oréal-UNESCO for Women in Science Lecture**
Convention Hall
Introduction: Representative of the Programme L'Oréal-Unesco "For Women in Science"
Projection of promotional video
PL03 *Unravelling the role of p38γ and p38δ in obesity-related diseases*
Guadalupe Sabio (Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES)

13:30 - 14:30 h **Niemeyer Lecture**
Convention Hall
Introduction: **M^a Ángeles Serrano-García** (Universidad de Salamanca, Salamanca, ES)
PL04 *JMJD1B, a novel player in histone H3 and H4 processing to ensure genome stability*
Alejandra Loyola (Fundación Ciencia & Vida, Santiago de Chile, CL)

14:30 - 15:30 h **Commercial exhibition, posters and lunch**
Exhibition Hall Level 0

15:30 - 18:00 h **WORKING GROUPS MEETING**
Convention Hall
G02 Molecular Basis of Pathology
Coordination: **Guadalupe Sabio** (Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES)
15:30 **G02-01-OI** *Role of TREM-2 receptor during the progression of liver disease: from acute liver injury, to chronic liver disease and the development of hepatocellular carcinoma*
M^a Jesús Perugorria Montiel (Instituto de Investigación Sanitaria Biodonostia, Hospital Universitario Donostia, UPV/EHU, San Sebastián, ES)
16:00 **G02-02-OI** *Understanding the pathophysiological role of succinate/SUCNR1 axis in obesity and T2D: from the laboratory to the clinic*
Sonia Fernández-Veledo (Institut d'Investigació Sanitària Pere Virgili-CIBERDEM, Tarragona, ES)



Congress Detailed Programme

- 16:30 **G02-03-OS** *Characterization and use of extracellular vesicles purified from lymphatic fluid as surrogate markers of melanoma residual disease*
Héctor Peinado Selgas (Centro Nacional de Investigaciones Oncológicas, Madrid, ES)
- 16:45 **G02-04-OS** *E2F2 and CREB1 cooperate in the regulation of fatty acid β -oxidation in progressive non-alcoholic fatty liver disease*
Francisco González-Romero (Facultad de Enfermería y Medicina, Universidad del País Vasco, Bilbao, ES)
- 17:00 **G02-05-OS** *Identification of novel regulators of immune checkpoint responses using an inducible-suicidal allele of Pd-1*
Elena Fueyo Marcos (Centro Nacional de Investigaciones Oncológicas, Madrid, ES)
- 17:15 **G02-06-OS** *Role of AKR1C2 and SRD5A1 hydroxysteroid dehydrogenases in altered progesterone metabolism during intrahepatic cholestasis of pregnancy*
Paula Sanchón-Sánchez (HEVEFARM, IBSAL, Universidad de Salamanca, Salamanca, ES)

15:30 - 18:00 h

WORKING GROUPS MEETING

Viena

G03 Developmental Biology and Genomic Modifications

Coordination: **Javier López-Ríos** (Centro Andaluz de Biología del Desarrollo (CSIC-UPO), Sevilla, ES)

- 15:30 **G03-01-OI** *Developmental plasticity underlies the diversity of cortical maps. Prospects for repair*
Marta Nieto (Centro Nacional de Biotecnología (CSIC), Madrid, ES)
- 16:00 **G03-02-OI** *Amphioxus functional genomics and the origins of vertebrate gene regulation*
Ignacio Maeso (Centro Andaluz de Biología del Desarrollo (CSIC-UPO), Sevilla, ES)
- 16:30 **G03-03-OS** *Transcriptional landscape of the Drosophila Iroquois complex*
Sonsoles Campuzano (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)
- 16:45 **G03-04-OS** *Differential chamber-specific expression and regulation of long non coding RNAs during cardiac development and disease*
Diego Franco (Universidad de Jaén, Jaén, ES)
- 17:00 **G03-05-OS** *Pioneer and repressive functions of p63 during embryonic ectoderm specification*
Jose María Santos-Pereira (Centro Andaluz de Biología del Desarrollo (CSIC-UPO), Sevilla, ES)
- 17:15 **G03-06-OS** *Vesicular sorting for Hedgehog signalling through morphogenetic synapsis*
Ana Citlali Gradilla (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)
- 17:30 **G03-07-OS** *TGF β 2-induced senescence during early inner ear development*
Marta Magariños (Instituto de Investigaciones Biomédicas "Alberto Sols" (CSIC-UAM), Madrid, ES)

15:30 - 18:00 h

WORKING GROUPS MEETING

Madrid

G04+G10 Computational Molecular Biology and Bioinformatics + Genomics and Proteomics

Coordination: **Javier de las Rivas** (Centro de Investigación del Cáncer - Instituto de Biología Molecular y Celular del Cáncer (CSIC-USAL), Salamanca, ES)
Manuel Fuentes (Centro de Investigación del Cáncer (CSIC-USAL), Salamanca, ES)



Congress Detailed Programme

- 15:30 **G10-01-OI** *Quantitative Trait Loci and molecular subphenotypes linked to cardiotoxicity susceptibility due to chemotherapy by anthracyclines*
Jesús Pérez Losada (Centro de Investigación del Cáncer - Instituto de Biología Molecular y Celular del Cáncer (CSIC-USAL) & Instituto de Investigación BioMédica de Salamanca, Salamanca, ES)
- 16:00 **G04-01-OI** *Identification of biomarkers associated with survival and prognosis in cancer through the use of transcriptomic profiling*
Javier de las Rivas (Centro de Investigación del Cáncer - Instituto de Biología Molecular y Celular del Cáncer (CSIC-USAL), Salamanca, ES)
- 16:30 **G10-02-OS** *Improving the knowledge of B-cell Chronic Lymphocytic Leukemia by Functional Proteomics Approaches*
Pablo Juanes Velasco (Centro de Investigación del Cáncer (CSIC-USAL), Salamanca, ES)
- 16:45 **G10-03-OS** *Connexin43-positive exosomes efficiently induce cellular senescence via p53/p16(INK4A) in target cells contributing to osteoarthritis progression*
Marta Varela-Eirín (Instituto de Investigación Biomédica de A Coruña, A Coruña, ES)
- 17:00 **G04-02-OS** *Computational characterization of protein-protein interactions perturbed by pathological mutations can help to identify potential drug targets*
Mireia Rosell (CSIC/BSC. Instituto de Ciencias de la Vid y del Vino, Logroño, ES)
- 17:15 **G04-03-OS** *Distinct binding of cetirizine enantiomers to human serum albumin and the human histamine receptor H₁*
Federico Gago (Universidad de Alcalá, Alcalá de Henares, ES)

15:30 - 18:00 h

Caracas

WORKING GROUPS MEETING

G06+G14 Biochemistry and Molecular Biology of Plants + Molecular Parasitology

Coordination: **Cecilia Gotor** (Instituto de Bioquímica Vegetal y Fotosíntesis (CSIC-US), Sevilla, ES)
Luis Rivas (Centro de Investigaciones Biológicas (CSIC), Madrid, ES)

- 15:30 **G06-01-OI** *Arabidopsis-spider mite interphase: an updated insight into defence mechanisms*
Estrella Santamaría (Centro de Biotecnología y Genómica de Plantas (UPM-INIA), Madrid, ES)
- 15:55 **G06-02-OI** *Artificial small RNA-based regulation of gene expression and antiviral defense in plants*
Alberto Carbonell (Instituto de Biología Molecular y Celular de Plantas (CSIC-UPV), Valencia, ES)
- 16:20 **G14-01-OI** *Tracking the humoral immune response to malaria in populations of endemic regions*
Antonio Puyet (Facultad de Veterinaria, Universidad Complutense de Madrid, Madrid, ES)
- 16:45 **G14-02-OI** *Chemoinformatics as a powerful tool to fight parasitic diseases*
Nuria Campillo (Centro de Investigaciones Biológicas (CSIC), Madrid, ES)
- 17:10 **G06-03-OS** *Biochemical identification and analysis of ADT-like proteins from plants*
Fernando de la Torre (Universidad de Málaga, Málaga, ES)
- 17:20 **G06-04-OS** *From multi-omics analysis to phenolic metabolism reconstruction in Quercus ilex*
Álvaro Infantes-González (Universidad de Córdoba, Córdoba, ES)



Congress Detailed Programme

- 17:30 **G14-03-OS** *Comparative proteomic analysis of Trypanosoma cruzi strains trypomastigotes*
Alfonso Herreros-Cabello (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)
- 17:40 **G14-04-OS** *Proteomic study of the changes induced by F. hepatica newly excysted juveniles (NEJ) on the host's intestinal epithelial cells*
David Becerro-Recio (Instituto de Recursos Naturales y Agrobiología de Salamanca (CSIC), Salamanca, ES)

15:30 - 18:00 h

WORKING GROUPS MEETING

Oslo

G07 Molecular Biotechnology

Coordination: **Miguel Alcalde** (Instituto de Catalisis y Petroleoquímica (CSIC), Madrid, ES)

- 15:30 **G07-01-OI** *Biocatalysis in solid state. New avenues in chemical biomanufacturing*
Fernando López Gallego (Universidad de Zaragoza, Zaragoza, ES)
- 16:00 **G07-02-OI** *Ancestral sequence reconstruction towards protein engineering for novel nanomaterials*
Leire Barandiaran Larrea (CIC nanoGUNE, San Sebastián, ES)
- 16:30 **G07-03-OS** *Targeting the Inflammasome in Breast Cancer Models*
Paula María Soriano (Centro de Investigación Príncipe Felipe, Valencia, ES)
- 16:45 **G07-04-OS** *Design and production of customized oligosaccharides by enzymatic catalysis*
Marta Barrena (Biopolis. Biotecnología Microbiana, Valencia, ES)
- 17:00 **G07-05-OS** *Nanoparticle-mediated delivery of engineered Cpf1 for the generation of improved genome editing tools.*
Carmen Escalona-Noguero (IMDEA Nanociencia, Madrid, ES)
- 17:15 **G07-06-OS** *Secondary benzyl-alcohol oxidase by directed evolution*
Javier Viña-González (Instituto de Catálisis (CSIC), Madrid, ES)
- 17:30 **G07-07-OS** *Titin-based hydrogels: properties beyond muscle passive elasticity*
Carla Huerta-López (Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES)

15:30 - 18:00 h

WORKING GROUPS MEETING

La Paz

G12 Nitrogen Metabolism

Coordination: **Jesús Díez** (Facultad de Veterinaria, Universidad de Córdoba, Córdoba, ES)

- 15:30 **G12-01-OI** *Advances and challenges in the regulation of nitrogen assimilation pathway in Haloarchaea*
Julia María Esclapez Espliego (Universidad de Alicante, Alicante, ES)
- 16:00 **G12-02-OI** *Search for N-metabolism regulatory genes in Lotus japonicus*
Margarita García-Calderón (Universidad de Sevilla, Madrid, ES)
- 16:30 **G12-03-OS** *A new pathway for eukaryotic biosynthesis of auxin involves an extracellular L-amino acid oxidase in Chlamydomonas*
Victoria Calatrava (Universidad de Córdoba, Córdoba, ES)
- 16:45 **G12-04-OS** *Ammonium nitrate supply in spinach is positively correlated with increased active cytokinins and indole acetic acid and decreased abscisic acid*
Mikel Rivero (Universidad Pública de Navarra, Pamplona, ES)



Congress Detailed Programme

- 17:00 **G12-05-OS** *Identificación de pequeños RNAs que controlan la destoxificación de residuos industriales cianurados por Pseudomonas pseudoalcaligenes CECT5344*
Víctor M. Luque-Almagro (Universidad de Córdoba, Córdoba, ES)
- 17:15 **G12-06-OS** *Regulation versus deregulation: an evolutionary perspective on the biochemical control of amino acids biosynthesis in plants*
Jorge El-Azaz (Universidad de Málaga, Málaga, ES)

15:30 - 18:00 h WORKING GROUPS MEETING

Bahía

G13 Molecular Neurobiology

Coordination: **María Luz Montesinos** (Facultad de Medicina, Univ. de Sevilla, Sevilla, ES)

- 15:30 **G13-01-OI** *Molecular Mechanisms of neurodegeneration in Spinal Muscular Atrophy: Autophagy deregulation*
Ana Garcerá Teruel (Facultad de Medicina, Universitat de Lleida, Lleida, ES)
- 16:00 **G13-02-OI** *Molecular aspects of Staufen 2- dependent recognition and regulation of neuronal localized mRNAs*
Sandra M. Fernández Moya (BioMedizinisches Centrum Ludwig-Maximilians-Universität, Martinsried, DE)
- 16:30 **G13-03-OS** *Exploring the role of arginine-rich peptides in neurodegeneration*
Oleksandra Sirozh (Centro Nacional de Investigaciones Oncológicas, Madrid, ES)
- 16:45 **G13-04-OS** *Neurogranin expression is regulated by synaptic activity and promotes synaptogenesis in cultured hippocampal neurons*
Fco. Javier Díez-Guerra (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)
- 17:00 **G13-05-OS** *APC/C-Cdh1 promotes brain repair after ischemia through the RhoA-ROCK2 pathway*
Jesús Agulla (Instituto de Investigación Biomédica de Salamanca (CSIC-USAL), Salamanca, ES)
- 17:15 **G13-06-OS** *Acute Δ9-Tetrahydrocannabinol administration accelerates oligodendrocyte development and regeneration*
Alba Huerga-Gómez (Universidad Complutense de Madrid, Madrid, ES)
- 17:30 **G13-07-OS** *Preservation of retinal synapsis and visual function with human proinsulin in the rd10 mouse model of retinitis pigmentosa*
Alonso Sánchez-Cruz (Universidad Complutense de Madrid, Madrid, ES)

18:00 - 20:30 h

Level 0

Wednesday Posters Presentation

Presenting Groups: G01, G02, G03, G04, G06, G07, G08, G10, G12, G13, G14

18:30 - 19:30 h

Convention Hall

SATELLITE ACTIVITY

Meet the Nobel: Prof. Dr. Robert Lefkowitz

Moderator: **Pere Estupinyà** (Presenter of the TV programme 'El Cazador de Cerebros' (TVE))

18:30 - 20:00 h

Biblioteca Eugenio Trías
Casa de Fieras
Parque de
El Retiro

SATELLITE ACTIVITY

Biochemistry in the city:

La ciencia contra el crimen: mitos y realidades del análisis de ADN

Lourdes Prieto (DNA specialist of the Spanish Police)



Congress Detailed Programme

Thursday, July 18th, 2019

09:00 - 10:30 h

Convention
Hall

Symposium 1

Molecular Basis of Disease

Symposium 1.2 Invertebrate models of human biology

Coordination: **José Carlos Pastor-Pareja** (Tsinghua University, Beijing, CN)

- 09:00 **S1.2-1** *Building basement membranes: secretion, assembly and fibrotic misassembly*
José Carlos Pastor-Pareja (Tsinghua University, Beijing, CN)
- 09:30 **S1.2-2** *A fly approach to cytokinesis failure and tumorigenesis*
Héctor Herranz (University of Copenhagen, Copenhagen, DK)
- 10:00 **S1.2-3** *Genetic targets of addiction. From nematodes to vertebrates*
Esther Serrano-Saiz (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)

09:00 - 10:30 h

Viena
Madrid
Oslo

Symposium 2

Biomolecular Structure and Function

Symposium 2.2 Recent advances in protein-RNA machineries

Coordination: **Guillermo Abascal-Palacios** (The Institute of Cancer Research, London, UK)

- 09:00 **S2.2-1** *Structural studies of RNA Polymerase III transcription machinery*
Guillermo Abascal-Palacios (The Institute of Cancer Research, London, UK)
- 09:30 **S2.2-2** *A ring to regulate it all: a CRISPR story*
Carmela García-Doval (University of Zurich, Zurich, CH)
- 10:00 **S2.2-3** *Towards a molecular understanding of the eukaryotic mRNA 3'-end processing machinery*
Ana Casañal (MRC Laboratory of Molecular Biology, University of Cambridge, Cambridge, UK)

09:00 - 10:30 h

Caracas
La Paz
Bahía

Symposium 3

Gene Regulation and Cell Signalling

Symposium 3.2 DNA Replication, Repair and Genomic Instability

Coordination: **Emilio Lecona** (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)

- 09:00 **S3.2-1** *Regulation of DNA replication by ubiquitin and SUMO*
Emilio Lecona (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)
- 09:30 **S3.2-2** *Proteomics characterization of Chromosomal Common Fragile Sites uncovers ATRX as a regulator of their stability*
Andrés J. López-Contreras (Centre for Chromosome Stability, University of Copenhagen, Copenhagen, DK)
- 10:00 **S3.2-3** *Mechanisms of DNA-protein crosslink repair*
Julien P. Duxin (Novo Nordisk Foundation Centre for Protein Research, University of Copenhagen, Copenhagen, DK)

10:30 - 12:00 h

Exhibition Hall
Level 0

Commercial exhibition, posters and coffee break

Congress Detailed Programme

11:00 - 12:00 h

París A+B

Workshop on Nanomedicine and Molecular Imaging presented by ReNIM

Coordination: **Beatriz Salinas** (Instituto de Investigación Sanitaria Gregorio Marañón, Madrid, ES)

11:00

Nanotechnology and nanoparticles

Jorge Rubio (Universidad Complutense de Madrid, Madrid, ES)

11:20

Medical Imaging; new tools in diagnosis

Beatriz Salinas (Instituto de Investigación Sanitaria Gregorio Marañón, Madrid, ES)

11:40

Applications of Nanomedicine in molecular imaging

Daniel Jaque (Universidad Autónoma de Madrid, Madrid, ES)

12:00 - 12:30 h

**Convention
Hall**

Young Investigator IBUB Award Lecture

Introduction: **Felix Goñi** (Universidad del País Vasco, Bilbao, ES)

PL05 *New molecular mechanisms of kidney disease: implications for therapy*

Ana Belén Sanz (IIS-Fundación Jiménez Díaz, Madrid, ES)

12:30 - 13:00 h

**Convention
Hall**

Lilly Foundation Margarita Lorenzo Lecture

Introduction: **M^a Ángeles Serrano-García** (Universidad de Salamanca, Salamanca, ES)

PL06 *Osteopontin is required to avoid the aging-related non-alcoholic fatty liver disease progression*

Beatriz Gómez-Santos (Universidad del País Vasco, Bilbao, ES)

13:00 - 14:00 h

**Convention
Hall**

Leloir Lecture

Introduction: **Miguel Ángel de la Rosa** (Universidad de Sevilla, Sevilla, ES)

PL07 *High sequence identity does not mean redundancy of function: the case of plant malic enzymes*

María Fabiana Drincovich (CEFOBI, COCINET - Universidad Nacional de Rosario, Rosario, AR)

14:00 - 15:30 h

**Exhibition Hall
Level 0**

Commercial exhibition, posters and lunch

15:30 - 18:00 h

Viena

WORKING GROUPS MEETING

G05 Chemical Biology

Coordination: **María D. Mayán** (Instituto de Investigación Biomédica de A Coruña, A Coruña, ES)

15:30

G05-01-OI *Mechanisms of tissue-specific and time-dependent metastasis*

Roger Gomis (IRB Barcelona, Barcelona, ES)

16:00

G05-02-OI *Protein-stabilized metal nanoclusters as tools for sensing and imaging*

Aitziber López Cortajarena (CIC biomaGUNE, San Sebastián, ES)

16:30

G05-03-OS *Computational chemical biology tools to approach Toll-like receptor 4*

Sonsoles Martín-Santamaría (Centro de Investigaciones Biológicas (CSIC), Madrid, ES)

16:45

G05-04-OS *New targets for metastatic breast cancer: role of the pro-inflammatory cytokine Oncostatin M*

María Caffarel (Instituto de Investigación Sanitaria Bionostia. Ikerbasque, San Sebastian, ES)



Congress Detailed Programme

17:00 **G05-05-OS** *Computer design and directed evolution of a highly active and enantioselective metallo-hetero-diels-alderase*
Gonzalo Jiménez-Osés (Ikerbasque. CIC bioGUNE, Bilbao, ES)

17:15 **G05-06-OS** *Modulating synapse number by regulating NCS-1/Ric8a complex formation*
Alicia Mansilla (IRYCIS. Hospital Ramón y Cajal, Madrid, ES)

15:30 - 18:00 h

WORKING GROUPS MEETING

**Convention
Hall**

G09 Protein Structure and Function

Coordination: **Carlos Fernández-Tornero** (Centro de Investigaciones Biológicas (CSIC), Madrid, ES)

15:30 **G09-01-OI** *Conformational Activation Promotes CRISPR-Cas12a Catalysis and Resetting of the Endonuclease Activity*
Guillermo Montoya (University of Copenhagen, Copenhagen, DK)

16:00 **G09-02-OI** *Volta phase plate cryo-EM structures reveal the coupling specificity between GPCRs and heterotrimeric G-proteins*
Javier García-Nafria (LMB-MRC Cambridge, Cambridge, UK)

16:30 **G09-03-OS** *Descifrando las bases moleculares de la comunicación entre fagos*
Alberto Marina (Instituto de Biomedicina de Valencia (CSIC), Valencia, ES)

16:45 **G09-04-OS** *Molecular basis of the neuroprotective effect of cytochrome c phosphorylation*
Alejandra Guerra-Castellano (Instituto de Investigaciones Químicas (IIQ), Centro de Investigaciones Científicas Isla de La Cartuja, Universidad de Sevilla, Sevilla, ES)

17:00 **G09-05-OS** *A quaternary tetramer assembly inhibits the deubiquitinating activity of USP25*
David Reverter (Instituto de Biotecnología y de Biomedicina. Universidad Autónoma de Barcelona, Barcelona, ES)

17:15 **G09-06-OS** *Dynamics of ParB and the critical role of the CTD in DNA condensation unveiled by combined force-fluorescence measurements*
Julene Madariaga-Marcos (Centro Nacional de Biotecnología (CSIC), Madrid, ES)

José Tormo Award talk

17:45 **G09-07-OS** *Deciphering the Long- and Short- Range Glycosylation Preferences of GalNAc-Ts enzymes*
Matilde de las Rivas (Instituto de Biocomputación y Física de Sistemas Complejos (BIFI), Universidad de Zaragoza, Zaragoza, ES)

15:30 - 18:00 h

WORKING GROUPS MEETING

Madrid

G11 Molecular Mechanisms in Cell Membranes: Physiology, Pathology and Biotechnology

Coordination: **José Luis Nieva** (Facultad de Ciencias, Universidad del País Vasco, Bilbao, ES)

15:30 **G11-01-OI** *Permeability and lipid flow mediated by surfactant protein B: key role for surfactant function*
Bárbara Olmeda Lozano (Facultad de Ciencias Biológicas, Universidad Complutense de Madrid, Madrid, ES)

16:00 **G11-02-OI** *The tripartite interaction behind the metamorphosis driving a water-soluble protein into the membrane*
Álvaro Martínez del Pozo (Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, ES)



Congress Detailed Programme

- 16:30 **G11-03-OS** *Mixing brain cerebroside with brain ceramides, cholesterol and phospholipids*
Emilio J. González-Ramírez (Instituto Biofisika (UPV/EHU, CSIC), Bilbao, ES)
- 16:45 **G11-04-OS** *Membrane accommodation surfaces modulate the biological function of anti-HIV antibodies through semi-specific interactions*
José Luis Nieva (Universidad del País Vasco, Bilbao, ES)
- 17:00 **G11-05-OS** *Mechanisms for cell wall glucan deficiency due to abnormal sterols in yeast*
Agustín Hernández (Universidade de São Paulo, São Paulo, BR)
- 17:15 **G11-06-OS** *Factors leading to deficient acyl-CoA oxidase 2 (ACOX2), an alteration which causes oxidative and endoplasmic reticulum stress in liver cells*
María Angeles Serrano (Bioquímica y Biología Molecular (IBSAL y CIBERehd). Universidad de Salamanca, Salamanca, ES)

15:30 - 18:00 h

WORKING GROUPS MEETING

Oslo

G15 Free Radicals and Oxidative Stress

Coordination: **María Monsalve** (Instituto de Investigaciones Biomédicas "Alberto Sols" (CSIC-UAM), Madrid, ES)

- 15:30 **G15-01-OI** *Regulation of uncoupling protein UCP3 expression by oxidative stress and its role in cardioprotection*
Susana Cadenas (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)
- 16:00 **G15-02-OI** *Defects of Coenzyme Q biosynthesis in the mitochondrial pathology*
Gloria Brea-Calvo (Centro Andaluz de Biología del Desarrollo and CIBERER, Instituto de Salud Carlos III, Universidad Pablo de Olavide-CSIC-JA, Sevilla, ES)
- 16:30 **G15-03-OS** *La NADPH oxidasa 5 endotelial induce la disfunción de la barrera hematoencefálica y la pérdida de memoria en ratones envejecidos*
Adriana Cortés (Universidad de Navarra, Pamplona, ES)
- 16:45 **G15-04-OS** *NADPH oxidases and Warburg effect in Chronic Myeloid Leukemia: a history of metabolic addiction*
Marta Romo-González (Universidad de Salamanca, Salamanca, ES)
- 17:00 **G15-05-OS** *Unexpected mitochondrial Na⁺ and Ca²⁺ movements control mitochondrial redox signalling in acute hypoxia*
Carmen Choya-Foces (Instituto de Investigación Sanitaria Hospital Universitario de La Princesa, Madrid, ES)
- 17:15 **G15-06-OS** *Beneficial effects of the regulation of microRNAs by dimethyl fumarate via NRF2 in tauopathies*
Isabel Lastres-Becker (Universidad Autónoma de Madrid, Madrid, ES)
- 17:30 **G15-07-OS** *Role of mitochondria in atypical antipsychotics induced cardiovascular disorders*
Patel Gaurangkumar (Instituto de Investigaciones Biomédicas "Alberto Sols" (CSIC-UAM), Madrid, ES)

15:30 - 18:00 h

WORKING GROUPS MEETING

Caracas

G16 Gene Expression Regulation and Genome Dynamics

Coordination: **Fernando Monje** (Centro Andaluz de Biología Molecular y Medicina Regenerativa, Sevilla, ES)



Congress Detailed Programme

- 15:30 **G16-01-OI** *Modelling the pathological long-range regulatory effects of human structural variation with patient-specific hiPSCs*
Álvaro Rada Iglesias (Instituto de Biomedicina y Biotecnología de Cantabria (CSIC-UC-SODERCAN), Santander, ES / University of Cologne, Köln, DE)
- 16:00 **G16-02-OI** *Deciphering the SECRET(ome)S of cell communication during cancer progression*
Verónica Torrano (CIC bioGUNE, Universidad del País Vasco, Bilbao, ES)
- 16:30 **G16-03-OS** *TLS priming: a novel strategy of DNA damage tolerance by PrimPol*
Alberto Díaz-Talavera (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)
- 16:45 **G16-04-OS** *A novel role for POLO kinase in the establishment of the non-random inheritance pattern of the spindle pole bodies in *Saccharomyces cerevisiae**
Laura Matellán (Centro Andaluz de Biología Molecular y Medicina Regenerativa (CSIC-US-UPO), Sevilla, ES)
- 17:00 **G16-05-OS** *Bacillus subtilis RecA interacts with and loads Rada/Sms to promote branch migration during natural chromosomal transformation and DNA repair*
Rubén Torres (Centro Nacional de Biotecnología (CSIC), Madrid, ES)
- 17:15 **G16-06-OS** *Distal gene regulation by CD69 dual enhancer-promoter regulatory element CNS2*
Jennifer Redondo Antón (Grupo de Presentación y regulación inmunes. ISCIII, Madrid, ES)
- 17:30 **G16-07-OS** *Ixr1 is an intrinsically disordered protein of prion-prone nature*
Ángel Vizoso-Vázquez (CICA – Universidad de A Coruña, A Coruña, ES)

15:30 - 18:00 h

La Paz

WORKING GROUPS MEETING

G17 Metabolic Regulation and Nutrition

Coordination: **Núria Casals** (Fac. CC Salud, Universitat Internacional de Catalunya, Barcelona, ES)

- 15:30 **G17-01-OI** *MicroRNAs in metabolic diseases, exogenous miRNAs and gut microbiota*
Fermín Milagro (Centro de Investigación en Nutrición, Univ. de Navarra, Pamplona, ES)
- 16:00 **G17-02-OI** *Pathological mechanisms in obesity: a tale of two fats*
Martín Alcalá Díaz-Mor (Facultad de Farmacia, Universidad CEU-San Pablo, Madrid, ES)
- 16:30 **G17-03-OS** *Myeloid p38MAPKs as key mediators of BAT thermogenic function and protection against obesity*
María Crespo (Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES)
- 16:45 **G17-04-OS** *Carnitine palmitoyltransferase 1 deletion in AgRP neurons increases energy expenditure by enhancing brown adipose tissue activity*
Sebastián Zagmutt (Universidad de Barcelona, Barcelona, ES)
- 17:00 **G17-05-OS** *Autologous fecal transplantation potentiates caloric restriction effects on body weight and adiposity by decreasing energy efficiency and by increasing adipose tissue lipolysis in high-fat fed mice*
Patricia Pérez-Matute (Centro de Investigación Biomédica de La Rioja, Logroño, ES)
- 17:15 **G17-06-OS** *Neonatal Resveratrol and Nicotinamide Riboside Supplementations Sex-dependently Affect Beige Transcriptional Programming of Preadipocytes in Mouse Adipose Tissue towards Beige Adipogenesis*
Joan Ribot (Universidad de las Islas Baleares – CIBEROBN-IdISBa, Palma de Mallorca, ES)
- 17:30 **G17-07-OS** *Regulation of mitochondrial plasticity by Mfn2 drives metabolic flexibility*
David Sebastian (IRB Barcelona. Centro de Investigación Biomédica en Red de Diabetes y Enfermedades Metabólicas Asociadas, Barcelona, ES)



Congress Detailed Programme

15:30 - 18:00 h

Bahía

WORKING GROUPS MEETING

G18 Cellular Signalling

Coordination: **Catalina Ribas** (Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)

15:30

G18-01-OI *Resistance to MAPK inhibitors in melanoma involves activation of the IGF-1R-MEK5-Erk5 pathway*

Joaquín Teixidó (Centro de Investigaciones Biológicas (CSIC), Madrid, ES)

16:00

G18-02-OI *OxLDL-CD69 signaling pathway in lymphocytes protects from atherosclerosis and predicts subclinical disease*

Pilar Martín Fernández (Centro Nacional de Investigaciones Cardiovasculares, Madrid, ES)

16:30

G18-03-OS *A new non-canonical pathway of Gq regulates mitochondrial motility*

Ismael Izquierdo (Instituto de Biología Molecular de Barcelona (CSIC), Barcelona, ES)

16:45

G18-04-OS *AMBRA1 regulates epithelial to mesenchymal transition in skin squamous cell carcinoma through TGF- β signaling pathway*

Estibaliz Gabicagogeascoa (Instituto de Investigaciones Sanitarias San Carlos, Universidad Complutense de Madrid, Madrid, ES)

17:00

G18-05-OS *C3G in Glioblastoma: role in invasion, tumorigenesis and cell signalling*

Sara Manzano (BBM – Facultad Farmacia, Universidad Complutense de Madrid, Madrid, ES)

17:15

G18-06-OS *Phenotype switch driven by translation reprogramming following stress as a motor to drive cancer cell heterogeneity*

Custodia García Jimenez (CC Básicas de la Salud. Universidad Rey Juan Carlos, Madrid, ES)

17:30

G18-07-OS *The EGFR/Src pathway mediates the communication of cancer cells and their surrounding microenvironment in triple negative breast cancer*

Eva M. Galán (Grupo Oncología Traslacional. Universidad de Castilla-La Mancha, Albacete, ES)

18:00 - 20:30 h

Level 0

Thursday Posters Presentation

Presenting Groups: **G05, G09, G11, G15, G16, G17, G18**

19:00 - 20:30 h

Madrid

SEBBM General Assembly

18:30 - 20:00 h

SATELLITE ACTIVITY

Salón Embajadores
Casa de América

Biochemistry in the city: *Qué es la epigenética y cómo afecta a nuestra salud*

Alejandra Loyola (Fundación Ciencia & Vida, Santiago de Chile, CL)

María Fabiana Drincovich (CEFOBI, COCINET-Universidad Nacional de Rosario, Rosario, AR)

Lorena Aguilar-Arnal (Instituto de Investigaciones Biomédicas, Universidad Nacional Autónoma de México, Ciudad de México, MX)

Mónica Lamas (Centro de Investigación y de Estudios Avanzados, Ciudad de México, MX)

20:30 - 21:00 h

El 38 de Larumbe

Cocktail with Exhibitors (by invitation)

21:00 h

El 38 de Larumbe

Congress Dinner



Congress Detailed Programme

Friday, July 19th, 2019

09:00 - 10:30 h

Convention
Hall

Symposium 1

Molecular Basis of Disease

Symposium 1.3 New insights into the epigenetic regulation of cell fate and disease

Coordination: **Lorena Aguilar-Arnal** (Instituto de Investigaciones Biomédicas, Universidad Nacional Autónoma de México, Ciudad de México, MX)

09:00

S1.3-1 *Metabolic control of chromatin dynamics during the circadian cycle*

Lorena Aguilar-Arnal (Instituto de Investigaciones Biomédicas, Universidad Nacional Autónoma de México, Ciudad de México, MX)

09:30

S1.3-2 *Transcriptional regulation of pluripotency and reprogramming*

Miguel Ángel Esteban (Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences, Guangzhou, CN)

10:00

S1.3-3 *Is the epigenetic control of the mammalian retinal response to damage preventing regeneration?*

Mónica Lamas (Centro de Investigación y de Estudios Avanzados, Ciudad de México, MX)

09:00 - 10:30 h

Viena
Madrid
Oslo

Symposium 2

Biomolecular Structure and Function

Symposium 2.3 Structure, function and signal transduction of G-protein coupled receptors

Coordination: **Hugo Gutiérrez-de-Terán** (Uppsala Universitet, Uppsala, SE)

09:00

S2.3-1 *Integrated approaches to model the effect of protein mutations, the conformational equilibrium and the ligand optimization on GPCRs*

Hugo Gutiérrez-de-Terán (Uppsala Universitet, Uppsala, SE)

09:30

S2.3-2 *Molecular mechanisms of GPCR-G protein recognition and selectivity*

Xavier Deupí (Paul Scherrer Institut, Villigen, CH)

10:00

S2.3-3 *Revisiting how G protein-coupled receptors activate and bind arrestin*

Martha E. Sommer (Institute for Medical Physics and Biophysics, Charité Medical University, Berlin, DE)

09:00 - 10:30 h

Caracas
La Paz
Bahía

Symposium 3

Gene Regulation and Cell Signalling

Symposium 3.3 Signalling pathways in Inflammation

Coordination: **Ana Cuenda** (Centro Nacional de Biotecnología (CSIC), Madrid, ES)

09:00

S3.3-1 *Alternative p38MAPK, p38γ and p38δ, in inflammation and cancer*

Ana Cuenda (Centro Nacional de Biotecnología (CSIC), Madrid, ES)

09:30

S3.3-2 *Role and therapeutic targeting of MALT1 in inflammation and immunity*

Rudi Beyaert (VIB-UGent Centre for Inflammation Research, Gent, BE)

10:00

S3.3-3 *Regulation of inflammation by the TPL-2 complex*

Steven C. Ley (Imperial College, London, UK)

10:30 - 12:00 h

Exhibition Hall
Level 0

Commercial exhibition, posters and coffee break



Congress Detailed Programme

12:00 - 12:30 h

Awards Ceremony

Convention
Hall

Best article SEBBM Award (sponsored by UCM)
Young Investigator Award (sponsored by IBUB)
Margarita Lorenzo Award (sponsored by Lilly Foundation)
José Tormo Award (sponsored by Bruker Española)
Best Scientific Image of the Year Award (sponsored by Eppendorf)
Social Network Award (sponsored by SEBBM)
Poster Prizes (sponsored by FEBS Letters & SEBBM)

12:30 - 13:30 h

Alberto Sols - Fundación BBVA Closing Lecture

Convention
Hall

Introduction: **Fernando Moreno-Herrero** (Centro Nacional de Biotecnología (CSIC), Madrid, ES)

PL08 *DNA Biophysics in Chromatin Function and Cellular Mechanics*

Taekjip Ha (Johns Hopkins Department of Biomedical Engineering, Baltimore, US)

13:30 - 14:00 h

Closing Ceremony

Convention
Hall

The Closing Ceremony will include the appointment as SEBBM Honourable Member of **Prof. Mariano Barbacid** (Centro Nacional de Investigaciones Oncológicas, Madrid, ES).

18:00 - 20:00 h

SATELLITE ACTIVITY

Platea
Escenario Principal

Biochemistry in the city: *Cooking show: "Cocina Molecular"* (by invitation)

Jorge Cuéllar (Centro Nacional de Biotecnología (CSIC), Madrid, ES and participant of MasterChef 2)

Communications accepted by the 42nd SEBBM Congress, have been organised into scientific groups.

Each communication has been assigned the next code: **GXX-YY-ZZ f,m**.

- **GXX**: the SEBBM Scientific Group
- **YY**: the number of that communication in its respective group
- **ZZ**: OS (oral selected) or OI (oral invited) or P (the number of the panel in which the poster should be mounted)
- **f,m**: “f” application for the Poster Prize (sponsored by FEBS Letters and SEBBM) or “m” the Lilly-Margarita Lorenzo Prize.

The Book of Abstracts is available on-line at: <https://congresosebbm.madrid2019.es/>

Posters, Wednesday, July 17th

Posters presented on Wednesday July 17th should be mounted from Tuesday 16th at 20:30 h to Wednesday 17th at 20:30 h.

Presenting authors with **even numbers** should stand at their poster from 18:30 to 19:30 h.

Presenting authors with **odd numbers** should stand at their poster from 19:30 to 20:30 h.

Presenting Groups: **G01, G02, G03, G04, G06, G07, G08, G10, G12, G13, G14**

G01. Apoptosis and Cell Stress

G01-01-P1 F,M

T-Type Cav3.1 Channels Mediate Progression and Chemotherapeutic Resistance in Glioblastoma

Visa, Anna; Crespí, Marta; Maiques, Oscar; Alza, Lía; Santacana, Maria; Hererros, Judit; Cantí, Carles

G01-02-P2

Inhibiting SUMO1-mediated SUMOylation induces autophagy-mediated cancer cell death and reduces tumour cell invasion via RAC1

Castillo-Lluva, Sonia; Lorente, Mar; García-Casas, Ana; Salvador, Nélida; Martínez-López, Angélica; Gabicagogeascoa, Estibaliz; Velasco, Guillermo; Lopez-Palomar, Lucía

G01-03-P3 M

Preconditioning-induced early Akt activation controls MDM2/p53 interaction and promotes neuronal ischemic tolerance

Vecino, Rebeca; Barrio, Emilia; Sanchez-Moran, Irene; Suarez-Pindado, Alberto; Bolanos, Juan Pedro; Almeida, Angeles; Delgado-Esteban, Maria

G01-04-P4 F,M

Non-SUMOylated Cx43 changes the function and recruitment of cellular components into exosomes and prevents drug resistance to BRAF/MEK inhibitors in metastatic melanoma

Varela-Vázquez, Adrian; Guitián-Caamaño, Amanda; Castro-Iglesias, Alejandro; Bravo, Susana B.; Calleja-Chuclá, Teresa; Fonseca, Eduardo; Mayán, María D.

G01-05-P5

Insulin-like growth factor-1 regulates survival, differentiation and autophagy in otic cells

Pulido, Sara; Garcia-Mato, Angela; Rodriguez de la Rosa, Lourdes; Magariños, Marta; Varela-Nieto, Isabel

G01-06-P6 F

Antiproliferative and antioxidant activity of uvaol in human hepatocellular carcinoma

Bonel-Pérez, Gloria Cristina; Gris-Cárdenas, Isabel; Parra-Pérez, Alberto Manuel; Siles, Eva; Rufino-Palomares, Eva Encarnación; Pérez-Jiménez, Amalia; Lupiáñez, José Antonio; Peragón, Juan

G01-07-P7 F

Anticancer and anti-inflammatory effect of hydroxytyrosol in hematological malignancies human cell lines

Parra-Pérez, Alberto Manuel; Gris-Cárdenas, Isabel; Bonel-Pérez, Gloria Cristina; Soriano, Pedro; Luque, María; Sánchez-Gallego, Raul; Pérez-Jiménez, Amalia; Rufino-Palomares, Eva Encarnación; Lupiáñez, José Antonio

G02. Molecular Basis of Pathology

G02-01-OI

Role of TREM2 receptor during the progression of liver disease: from acute liver injury, to chronic liver disease and the development of hepatocellular carcinoma

Perugorria Montiel, M^a Jesús

G02-02-OI

Understanding the pathophysiological role of succinate/SUCNR1 axis in obesity and T2D: from the laboratory to the clinic

Fernandez-Veledo, Sonia

G02-03-OS

Characterization and use of extracellular vesicles

purified from lymphatic fluid as surrogate markers of melanoma residual disease

Peinado Selgas, Hector; Garcia Silva, Susana; Benito Martin, Alberto; Sanchez Redondo, Sara; Hernandez Barranco, Alberto; Ximenez Embun, Pilar; Nogués, Laura; Mazariegos, Marina S.; Brinkmann, Kay; Amor, Ana; Boskovic, Jaskinka; Robledo, Mercedes; Skog, Johan; Noerholm, Mikkel; Muñoz, Javier; Ortiz Romero, Pablo L.; Rodríguez Peralto, Jose Luis; Rutkowski, Piotr

G02-04-OS M

E2F2 and CREB1 cooperate in the regulation of fatty acid B-oxidation in progressive non-alcoholic fatty liver disease

Gonzalez-Romero, Francisco; Mestre, Daniela; Aurrekoetxea, Igor; Saenz de Urturi, Diego; Gomez-Santos, Beatriz; Nuñez-Garcia, Maitane; Nieva-Zuluaga, Ane; Ruiz de Gauna, Mikel; Palomo-Irigoyen, Marta; Tamayo-Caro, Miguel; Woodhoo, Ashwin; Varela-Rey, Marta; Martínez-Chantar, Maria Luz; Iglesias, Ainhoa; Lee, Richard; Bahnot, Sanjay; Zubiaga, Ana Maria; Aspichueta, Patricia

G02-05-OS

Identification of novel regulators of immune checkpoint responses using an inducible-suicidal allele of Pd-11

Fueyo Marcos, Elena; Antón, Marta Elena; Murga, Matilde; Fernández Capetillo, Óscar

G02-06-OS

Role of AKR1C2 and SRD5A1 hydroxysteroid dehydrogenases in altered progesterone metabolism during intrahepatic cholestasis of pregnancy

Sanchon-Sanchez, Paula; R. Romero, Marta; Herraiz, Elisa; R. Macias, Rocio I.; Asensio, Maitane; Cives-Losada, Candela; Sanchez de Blas, Beatriz; G. Temprano, Alvaro; Monte, Maria J.; G. Marin, Jose J.

G02-07-P8 F

Direct Effects of Cigarette Smoke in Pulmonary Arterial Cells: Implications in Arterial Remodeling and Vascular Tone Maintenance

Sevilla Montero, Javier; Labrousse-Arias, David; Fernandez-Perez, Cintia; Fernandez Blanco, Laura; Barreira Barba, Bianca; Mondejar Parreño, Gemma; Cogolludo Torralba, Angel; **Calzada, María J**

G02-08-P9 F,M

Disturb lipid homeostasis is associated with infertility in obese male mice

Casado, María E.; Huerta, Lydia; Ulloa, Virginia; Olmeda, Héctor; ; Laguna-Barraza, Ricardo; Pérez-Cerezales, Serafin; Gutiérrez-Adán, Alfonso; Lasunción, Miguel Ángel; Martín-Hidalgo, Antonia

G02-09-P10 F,M

Gene regulatory and phenotypic effects of calcitriol and canonical WNT in human colon fibroblasts

Ferrer-Mayorga, Gemma; Niell, Núria; González-Sancho, José Manuel; Del Peso, Luis; Muñoz, Alberto; Larriba, María Jesús

G02-10-P11

Role of COX-2 in liver mitochondrial function

Fuertes Agudo, Marina; Cucarella Tormo, Carme; Brea Contreras, Rocío; Casanova Melchor, Natalia; Boscá Gomar, Lisardo; Martín Sanz, Paloma; Casado Pinna, Marta

G02-11-P12 F,M

Acute myeloid leukemia cells seize the serotonin signaling in osteoblasts to engraft and proliferate

Galan-Diez, Marta; Kousteni, Stavroula

G02-12-P13 F,M

NOD1 and immunometabolic regulation: beyond sensing bacteria and atherosclerosis disease

Fernández-García, Bárbara Victoria¹; De Castro-Millán, Francisco Javier¹; Boscá-Gomar, Lisardo¹; González-Ramos, Silvia¹

G02-13-P14

Splicing alterations and thermodynamic instability: protein haploinsufficiency drivers to define pathogenicity of missense mutations in cardiac myosin binding protein C

Pricolo, Maria Rosaria; Suay-Corredera, Carmen; Herrero-Galán, Elías; Velázquez-Carreras, Diana¹; Sánchez-Ortiz, David¹; Urrutia-Irazabal, Iñigo¹; García-Giustiniani, Diego; Delgado, Javier; Vilches, Silvia; Dominguez, Fernando; Barriales-Villa, Roberto; Frisso, Giulia; Serrano, Luis; García-Pavía, Pablo; Monserrat, Lorenzo; Alegre-Cebollada, Jorge

G02-14-P15 F,M

Generation and biochemical characterization of different cellular models with single mtDNA deletions for studying Pearson syndrome.

Hernández-Ainsa, Carmen; López-Gallardo, Ester; Vela-Sebastián, Ana; Ruiz-Pesini Eduardo; Montoya, Julio; Emperador, Sonia

G02-15-P16 F,M

Brain pyrimidine nucleotide synthesis and Alzheimer disease

Pesini, Alba; Iglesias, Eldris; Bayona-Bafaluy, Pilar; Garrido-Pérez, Nuria; Jiménez-Salvador, Irene; Montoya, Julio; Ruiz-Pesini, Eduardo

G02-16-P17 F,M

Diabetes induces tumour development through the stimulation of cell proliferation

Lucena, Silvia R.; Mielu, Lidia M.; Notario, Laura; Hortigüela, Rafael; Gutiérrez-Salmerón, María; Chocarro-Calvo, Ana; Martín, Rosa M.; García-Martínez, José M.; Román, José L.; Ramírez, Ana; De la Vieja, Antonio; García-Jiménez, Custodia

G02-17-P18 F,M

A large Spanish pedigree with a new mutation

in ND1 mitochondrial gene associated to Leber's hereditary optic neuropathy

Habbane, Mouna; López-Gallardo, Ester; Ruiz-Pesini, Eduardo; Montoya, Julio; Emperador, Sonia

G02-18-P19 F,M

Contribution of the pharmacological treatment to a POLG-related disease progression

Gaudó, Paula; Emperador, Sonia; Garrido-Pérez, Nuria; Ruiz-Pesini, Eduardo; Montoya, Julio; Artuch, Rafael; Bayona, María Pilar

G02-19-P20

Igflr facilitates implantation and tumor growth in a Lewis lung carcinoma mouse model

López, Icíar P; Alfaro-Arnedo, Elvira; Ruíz-Martínez, Carlos; Piñeiro-Hermida, Sergio; Pichel, José G

G02-20-P21 F

SWI/SNF alterations in cancer: molecular targets and therapeutic implications

Monterde, Beatriz; Moreno, Thaidy; De la Fuente, Dalia; Revilla, Carlos; Casar, Berta; Crespo, Piero; Varela, Ignacio

G02-21-P22 F

Protective effect of lipoxin A4 analog BML-111 on a murine model of autoimmune myocarditis

Jaén, Rafael I.; Sánchez-García, Sergio; Terrón, Verónica; Val-Blasco, Almudena; Fernández-Velasco, María; Boscá, Lisardo; Prieto, Patricia

G02-22-P23 F,M

Inducible Hsp90 as a marker for disease severity in scleroderma patients

Villar, Ana V; Carreira, Patricia; Muñoz, Pedro; Pablos, Jose Luis; López-Hoyos, Marcos; Díaz, Federico; Merino, Jesus; Ruiz-DelRio, Jorge; Maestro, David; Palanca, Ana R; Serrano-Mollar, Anna; Martínez-Taboada, Victor

G02-23-P24 F,M

Patient-derived organoids from normal and tumoral colorectal tissue

Costales-Carrera, Alba; Bustamante-Madrid, Pilar; Burgos, Aurora; Barbáchano, Antonio; Muñoz, Alberto; Fernández-Barral, Asunción

G02-24-P25

WIP differential interactome during its oncogenic or tumor suppressor activity

Anton, Ines Maria; Gomez, Carla; Rivas, Sergio; Wandosell, Francisco

G02-25-P26 F,M

Transcriptomic analysis of alterations produced by 7-ketocholesterol on retinal pigmentary epithelium (RPE) cells using high throughput RNA sequencing

Perez-Sala, Alvaro; Pelaez, Rafael; Pariente, Ana; Ochoa, Rodrigo; Larrayoz, Ignacio M.

G02-26-P27 F,M

ScFv-h3D6 ameliorates Alzheimer's disease hallmarks in elderly 3xTg-AD mice

Ramos Roda, Alejandro; Serra Mir, Gabriel; Montoliu Gaya, Laia; Villegas Hernández, Sandra

G02-27-P28 F,M

Effect of caloric restriction in the regulation of insulin signaling in adipose tissue at early stages of aging: role of miRNAs

Martín-Taboada, Marina; Corrales, Patricia; Torres, Lucía; Ramirez, Laura; Horrillo, Daniel; Peña, María; Izquierdo-Lahuerta, Adriana; Martínez, Carmen; Dopazo, Joaquín; Ros, Manuel; Medina-Gómez, Gema

G02-28-P29 F

Analysis of HMGB1 and HMGB2 transcriptional dysregulation under chemotherapeutic treatment in prostate cells

Cámara Quílez, María; Barreiro Alonso, Aida; Lamas Maceiras, Mónica; Rodríguez Belmonte, Esther; Quindós Varela, María; Cerdán Villanueva, María Esperanza

G02-29-P30 F,M

Retinal cell death induced by 7-ketocholesterol: Implications for age-related macular degeneration (AMD)

Pariente, Ana; Ochoa, Rodrigo; Altuzarra, Yanire; Pelaez, Rafael; Perez-Sala, Alvaro; Larrayoz, Ignacio M

G02-30-P31 F

Implication of IGF1R in asthma: genetic and pharmacological murine models

Alfaro-Arnedo, Elvira; López, Icíar P; Piñeiro-Hermida, Sergio; Pichel, José G

G02-31-P32 F,M

Impact of genetic variations in angiogenic pathway related genes on outcome in metastatic colorectal cancer patients treated with bevacizumab

Galán, Miguel; Beltrán, Laura; Gaibar, María; Fernández-Santander, Ana; Malón, Diego; Moreno, Amalia; Antón, Beatriz; Romero-Lorca, Alicia; Novillo, Apolonia

G02-32-P33 F,M

Unravelling the role of Fbxw7 as a multi-drug resistance related gene

Sánchez-Burgos, Laura; Tejero, Héctor; Zarzuela, Eduardo; Muñoz, Javier; Al-Shahrour, Fátima; Fernández-Capetillo, Óscar

G02-33-P34 F

Relevance of EGF receptor kinase activity for regulation of hepatic progenitor cells during

cholestatic injury

Lazcanoiturburu, Nerea; Almalé, Laura; Méndez, Rebeca; Roncero, César; Bragado, Paloma; Addante, Annalisa; Deleyto, Nerea; Martínez-Palacín, Adoración; García-Bravo, María; Sanz, Julián; Segovia, José Carlos; Fabregat, Isabel; Herrera, Blanca; Sánchez, Aránzazu

G02-34-P35 F,M

Exploring the contribution of the cytosolic DNA response to mammalian ageing

Valledor, Pablo; Murga, Matilde; Fernández-Capetillo, Óscar

G02-35-P36 F

Telomerase deficiency attenuates allergic airway inflammation in a murine model of house dust mite-induced asthma

Piñeiro-Hermida, Sergio; Serrano, Rosa; Martínez, Paula; Blasco, María A.

G02-36-P37 F

CDK mediated control of Yku80 in DNA repair

Carballar, Reyes; **Bru, Samuel;** Samper, Barbara; Ballega, Elisabet; Mirallas, Oriol; Ricco, Natalia; Ribeiro, Mariana; Clotet, Josep; Jimenez, Javier

G02-37-P38

¿Afecta la preeclampsia a la expresion génica en las distintas partes de la placenta?

De la Fuente Luelmo, Eva; **Haro Garcia, Maria;** Majali, Alejandro; Duran, Lucia; Abascal, Alejandra; Bartha Rasero, Jose Luis; Ramos Álvarez, M^a Pilar

G02-38-P39 F,M

Regulation of the inflammasome by the master erythroid transcription factor GATA1: the missing link in anemia of chronic diseases

Rodríguez-Vidal, Juan F.; Rodríguez-Ruiz, Lola; Tyrkalska, Sylwia D.; Choudhuri, Avik; Zon, Leonard I.; Cayuela, María L.; García-Moreno, Diana; Pérez-Oliva, Ana B.; Mulero, Victoriano

G02-39-P40

Alterations in the components and/or genes of the Wnt/ β -catenin pathway in human circulating lymphocytes produced by high concentrations of glucose and fatty acids

Martín Orozco, Rosa María; Román Fernández, Jose Luis; García Martínez, Jose Manuel; Gutiérrez Salmeron, Maria; Chocarro Calvo, Ana; Lucena Blas, Silvia; Fiuza, Maria Carmen; Palacios, Nuria; De la Vieja, Antonio; García Jiménez, Custodia

G02-40-P41 F,M

Altered glucose metabolism in a Drosophila model of Parkinson's disease

Solana-Manrique, Cristina; Sanz, Francisco José; García, Casandra; Ripollés, Edna; Muñoz-Soriano, Verónica; Paricio, Nuria

G02-41-P42 F

Role of mitochondrial dysfunction in T2D and obesity

Sánchez González, Cristina; Nuevo Tapioles, Cristina; Serrano Sanz, Sandra; Cuezva Marcos, José M.; Formentini, Laura

G02-42-P43 F,M

N-Acetyl-Cysteine impairs Cystatin C Amyloid Oligomers

Gutierrez-Uzquiza, Alvaro; March, Michael; Osk Snorraddottir, Asbjorg; Matsuoka, Leticia; Fonseca Balvis, Noelia; Nguyen, Kenny; Sleiman, Patrick; Kao, Charly; Isaksson, Helgi; Thor Bragason, Birkir; Olafsson, Elias; Palsdottir, Astridur; Hakonarson, Hakon

G02-43-P44 F

Searching for blood biomarkers of patients suffering from mild cognitive impairment or Alzheimer's disease

Monllor, Paloma; Esteve, Daniel; Viña, Jose; Lloret, Ana

G02-44-P45

Generacion y caracterizacion de nuevos modelos celulares asociados al deficit neural en IGF-1

Rodriguez-de la Rosa, Lourdes; Garcia Mato, Angela; Vandenbroucke, Roosmarijn; Morin, Matias; Moreno-Pelayo, Miguel Angel; Montoliu, Lluís; Varela-Nieto, Isabel

G02-45-P46 F

Hemochromatosis type 1 prone to change erythropoiesis and immune cell populations

Sánchez Jaut, Sandra; González Azcárate, Isabel; Pérez Benavente, Susana; Abad González, Paloma; Morán Jiménez, María Josefa; Puyet, Antonio; Diez, Amalia; Bautista, José Manuel

G02-46-P47 F,M

Therapeutic use of the sodium/iodide symporter (NIS) in ovarian cancer

Mielu, Lidia Mirela; Fajardo-Delgado, Dánae; Hortigüela, Rafael; Diego-Hernandez, Cristina; García-Jimenez, Custodia; Martín-Duque, Pilar; De la Vieja, Antonio

G02-47-P48

Mutation in glutamyl-tRNA^{Gln} amidotransferase subunit C cause a lethal mitochondrial cardiomyopathy disorder

Fernández-Moreno, Miguel Angel; Palacios-Zambrano, Sara; Kurolap, Alina; Fitch, Sophie Jane; González-Paramos, Cristina; Garesse, Rafael; Baris, Hagit N.

G02-48-P49 F

C3G as a potential regulator of liver regeneration upon injury

Baquero, Cristina; Palao, Nerea; Sequera, Celia; Manzano, Sara; Gutiérrez-Uzquiza, Álvaro; Bragado, Paloma; Sánchez, Aránzazu; Guerrero, Carmen; Porras, Almudena

G02-49-P50 F

Molecular cracking of a new type of hereditary vitamin B6-dependent epilepsy

Forcada-Nadal, Alicia; Martin-Martin, Yolanda; Blazquez, David; Marco-Marin, Clara; Rubio, Vicente

G02-50-P51

Alteraciones en el perfil de adipoquinas circulantes en pacientes con Síndrome Idic15, una enfermedad neurológica rara

Alonso-Iglesias, Eulalia; Tavárez, Sandra; Jávega, Beatriz; Izquierdo-Peyrallo, Macarena; Herrera, Guadalupe; García-Pérez, Miguel Ángel; Codoñer-Franch, Pilar; Orquín-González, Miguel Ángel; O'Connor, José Enrique

G02-51-P52

Relación entre activación endotelial, inflamación, manifestaciones clínicas y extensión de las duplicaciones en el Síndrome Idic15

O'Connor, José-Enrique; Tavárez, Sandra; Jávega, Beatriz; Izquierdo-Peyrallo, Macarena; Herrera, Guadalupe; García-Pérez, Miguel Ángel; Codoñer-Franch, Pilar; Orquín-González, Miguel Ángel; Alonso-Iglesias, Eulalia

G02-52-P53 F,M

Identification of the exosome-transported miRNAs profile in hereditary hemorrhagic telangiectasia (HHT) and its diagnostic value

Blanco, Francisco-Javier; Carmona-Sáez, Pedro

G02-53-P54 F,M

Identification of novel essential genes for prostate cancer metastasis by genome-scale CRISPR approaches

Fonseca Balvis, Noelia; Garcia-Garcia, Sara; Garifallou, James; Kaminski, Courtney; Tian, Lifeng; Pellegrino, Renata; Hakonarson, Hakon; Bragado, Paloma; Porras, Almudena; Gutierrez-Uzquiza, Alvaro

G02-54-P55 F

Implication of Δ Np73 in oxaliplatin resistance in colorectal cancer: Role of the autophagy pathway

Santos-López, Jorge; Soldevilla, Beatriz; Rodríguez-Cobos, Javier; Higuera, Oliver; Rodriguez-Salas, Nuria; Domínguez, Gemma

G02-55-P56 F

Gene editing of Nr2e3 in mouse to model retinal degeneration

Aisa-Marin, Izarbe; Lopez-Iniesta, Maria Jose; Marfany, Gemma

G02-56-P57 F,M

Sexual differences in cardiovascular risk correlate with the gender dimorphism observed in cardiac GRK2 levels with age

C. Arcones, Alba; Vila-Bedmar, Rocío; Cruces-Sande, Marta; Lladó, Isabel; Proenza, Ana M.; Mayor, Federico; Murga, Cristina

G02-57-P58

Calpain 2 drives cofilin 1 activity and cytosolic localization in different subtypes of breast cancer cell lines

Rodríguez-Fernández, Lucía; Ortiz-Fernández, Belén; Zaragoza, Rosa; García, Concha; Viña, Juan R; García-Trevijano, Elena R

G02-58-P59

Neuropilin 2 inhibits disseminated tumor cells dormancy and promotes metastasis progression in breast and head and neck cancer

Bragado, Paloma; Recalde-Percaz, Lerie; Jauregui, Patricia; Noguera-Castells, Aleix; Moragas, Nuria; Fernandez-Noguera, Patricia; Lopez-Plana, Anna; Gutierrez-Uzquiza, Álvaro; Porras, Almudena; Gascon, Pere; Fuster, Gemma; Mancino, Mario

G02-59-P60 F,M

Delving into connection of LDH-B and mitochondria as an alternative AML treatment

Ijurko, Carla; Romo-González, Marta; Sánchez-Guijo, Fermín; Hernández-Hernández, Ángel

G02-60-P61

EWSR1 suppresses nucleolar stress and the onset of thymic lymphomas in mice

Lafarga, Vanesa; Nieto-Soler, Maria; Morgado, Isabel; Mateos, Judith; Lafarga, Miguel; Fernandez-Capetillo, Oscar

G02-61-P62 F,M

Role of Akt isoforms in intestinal epithelial barrier and its importance in inflammatory bowel disease

García Prieto, Teresa; Arranz de Miguel, Alicia; Fresno Escudero, Manuel

G02-62-P63 F,M

Galectin-1 is required for adipocyte differentiation and obesity

Torres, Patricia; Álvarez, Ruth; Fresno, Manuel

G02-63-P64 F,M

Identification of molecular pathways underlying glioblastoma stem cell activity

Matheu, Ander

G02-64-P65 F,M

miR127 as critical mediator in Chronic Kidney Disease (CKD): role in macrophage polarization

Giménez, Sara; Crespo, Lorena; Salinas, Laura; Blanco, Carolina; Rodríguez, Esperanza Macarena; Ramos, Edurne; Serrano, Silvia; Conde, Elisa; García, María Laura

G02-65-P66 F,M

miR-326 is an important mediator in colorectal cancer progression by regulating Epithelial Me-

senchymal transition

Serrano, Silvia; Blanco, Carolina Pilar; Salinas, Laura; Rodríguez, Macarena; Crespo, Lorena; Giménez, Sara; Ramos, Edurne; García, Maria Laura; Conde, Elisa

G02-66-P67

APAF-1 inhibition reduces cisplatin-induced hearing loss

Varela-Nieto, Isabel; Murillo-Cuesta, Silvia; Celaya, Adelaida M.; Rodríguez-de la Rosa, Lourdes; Cervantes, Blanca; García-Mato, Angela; Sanchez-Perez, Isabel; Herrero, Carmen

G02-67-P68 F,M

Effect of inhibition of the protein tyrosine phosphatase 1B in lipotoxicity in liver progenitor oval cells

Barahona, Inés; Valdecantos, Pilar; Rada, Patricia; Astudillo, Alba; Balsinde, Jesús; Sánchez, Aránzazu; Martínez Valverde, Angela

G02-68-P69 F

Study of polyphosphorylation, a newly described non-enzymatic post-translational modification, of nucleolin from cancer cell lines

Atienza, Isabel; Pereira, Mar; Gómez, Ricardo; Castro, Carmen; Azevedo, Cristina; Saiardi, Adolfo; Ruiz, Félix

G02-69-P70

Effect of GAS6 on the metastatic potential of melanoma B16 cells

García de Frutos, Pablo; Aresté, Cristina; Morales, Albert

G02-70-P71

Detección de enlaces O-glicosídicos en los depósitos de mucopolisacárido en la hiperplasia benigna de próstata en rata

Fernández Novell, Josep Maria; Trujillo, Lina Maria; Rivera, Maria Montserrat; Rodríguez Gil, Joan Enric

G02-71-P72

Metabolic dysfunction drives immune complications in Lysinuric Protein Intolerance mouse mode

Bodoy, Susanna; Sotillo, Fernando; Sanchez, Mayka; Couso, Jorge; Artuch, Rafael; Sebastio, Gianfranco; **Palacín, Manuel**

G02-72-P73

Definition of cardiotoxicity due to anthracyclines from a systems biology perspective

Corchado-Cobos, Roberto; Gómez-Vecino, Aurora; Blanco-Gómez, Adrián; **García-Sancha, Natalia;** Martín-García, Ana; Macías de Plasencia, Guillermo; Prieto, Carlos; Galvis-Jiménez, Milena; García-Sánchez, Asunción; Isidoro-García, María; García-Cenador, María Begoña; García-Criado, Francisco Javier; Fuentes, Manuel; García, Juan Luis; Holgado-Madruga, Marina; Sánchez, Pedro Luis; Pérez-Losada, Jesús

G02-73-P74 F,M

Specific lack of p85 α in brown adipose tissue triggers resistance to high fat diet-induced obesity and improves the metabolic profile in mice

López-Pastor, Andrea R; Gómez-Hernández, Almudena; Rubio-Longás, Carlota; Majewski, Patrik; Beneit, Nuria; Viana-Huete, Vanesa; García-Gómez, Gema; Fernández, Silvia; Infante-Menéndez, Jorge; Escribano, Óscar; Benito, Manuel

G02-74-P75

Interferon-alpha decreases Cancer Stem Cells in Malignant Melanoma

García-Ortega, Maria Belen; Griñan, Carmen; Jimenez, Gema; Valdivia, Javier; Amezcua, Victor; Ruiz, Gloria; Vallejo, Teresa; Marchal, Juan Antonio; **García, María Angel**

G02-75-P76

Blockage of autophagic flux is associated with lymphocytosis and higher percentage of tumoral cells in chronic lymphocytic leukemia of B-cells

Roche, Olga; Romero-Macías, Juan-Ramón; Pascual-Serra, Raquel; Ruiz-Marcos, Francisco; Serrano-Martínez, Ana; González-Aguado, Patricia; Fernández-Aroca, Diego Manuel; Ortega-Muelas, Marta; Arconada-Luque, Elena; Beldandia, Borja; Ruiz-Hidalgo, María-José; Sánchez-Prieto, Ricardo

G03. Developmental Biology and Genomic Modifications

G03-01-OI

Developmental plasticity underlies the diversity of cortical maps. Prospects for repair

Nieto, Marta

G03-02-OI

Amphioxus functional genomics and the origins of vertebrate gene regulation

Maeso, Ignacio; Marletaz, Ferdinand; Firbas, Panos; Tena, Juan J.; Bogdanovic, Ozren; Perry, Malcolm; Wyatt, Christopher D. R.; De la Calle-Mustienes, Elisa; Bertrand, Stephanie; Burguera, Demian; Acemel, Rafael D.; Genomic Consortium (44 more authors), Branchiostoma lanceolatum; Lister, Ryan; Lenhard, Boris; Holland, Peter W. H.; Escrivá, Hector; Gomez-Skarmeta, Jose Luis; Irimia, Manuel

G03-03-OS

Transcriptional landscape of the Drosophila Iroquois complex

Campuzano, Sonsoles; Gonzalez-Perez, Esther

G03-04-OS M

Differential chamber-specific expression and regulation of long non coding RNAs during cardiac development and disease

García-Padilla, Carlos; Aranega, Amelia; **Franco, Diego**

G03-05-OS

Pioneer and repressive functions of p63 during embryonic ectoderm specification

Santos-Pereira, José M.; Gallardo-Fuentes, Lourdes; Neto, Ana; Acemel, Rafael D.; Tena, Juan J.

G03-06-OS

Vesicular sorting for Hedgehog signalling through morphogenetic synapsis

Gradilla, Ana Citlali; Gonzalez-Mendez, Laura; Sanchez-Hernandez, David; Jimenez, Carlos; Falcon, Juan Manuel; Gonzalez, Esperanza; Andres, German; Guerrero, Isabel

G03-07-OS M

TGF β 2-induced senescence during early inner ear development

Magariños, Marta; Gibaja, Alejandro; R. Aburto, María; Pulido, Sara; Varela-Nieto, Isabel

G03-08-P77

Natural sphingolipids are necessary for the correct morphogenesis of the chicken inner ear

Leon, Yolanda; Magariños, Marta; Varela-Nieto, Isabel

G03-09-P78 F,M

Expression pattern of Membrane type 1-matrix metalloproteinase (Mt1-mmp/Mmp14) during mouse embryonic development

Moracho, Natalia; Muñoz-Sáez, Emma; Rodríguez-Martín, Iván; Learte, Ana Isabel Rodríguez; Montalvo, Maria Gregoria; Arroyo, Alicia García; Sánchez-Camacho, Cristina

G03-10-P79

Hedgehog reception at cytoneme contacts requires a basolateral vesicular-sorting of the receptor Patched

Jiménez-Jiménez, Carlos; Gradilla, Ana Citlali; González-Méndez, Laura; Sánchez-Hernández, David; Aguirre-Tamaral, Adrián; Guerrero, Isabel

G03-11-P80

New animal models of albinism generated with CRISPR tools

Guardia, Ana Maria; Montero, An; Josa, Santiago; Muñoz, Diego; Sánchez-Díez, Marta; Fernández, Julia; Cantero, Marta; Fernández, Almudena; Montoliu, Lluís

G04. Computational Molecular Biology and Bioinformatics

G04-01-OI

Identification of biomarkers associated with survival and prognosis in cancer through the use of transcriptomic profiling

De las Rivas, Javier; Bueno, Santiago; Berral, Alberto; Martín-Merino, Manuela

G04-02-OS M

Computational characterization of protein-protein interactions perturbed by pathological mutations can help to identify potential drug targets

Rosell, Mireia; Martell, Henry; N. Waas, Mark; Fernandez-Recio, Juan

G04-03-OS

Distinct binding of cetirizine enantiomers to human serum albumin and the human histamine receptor H₁

Gago, Federico; Perona, Almudena; Ros, M. Piedad; Mills, Alberto; Morreale, Antonio

G04-04-P81 F,M

Sequence-induced bending in double-stranded DNA and RNA: insights from atomic force microscopy and molecular dynamics simulations

Marin-Gonzalez, Alberto; Aicart-Ramos, Clara; Marin-Baquero, Mikel; Vilhena, J Guilherme; Martin-Gonzalez, Alejandro; Perez, Ruben; Moreno-Herrero, Fernando

G04-05-P82

Evolutionary implications of gene duplication events on ductile / disordered regions (IDRs) distribution in plant proteomes

Yruela, Inmaculada; Contreras-Moreira, Bruno; Dunker, A. Keith; Niklas, Karl J.

G04-06-P83 F

Simulation of bacterial pneumonia in a single alveolus from a multi-level mathematical model

Santos, Guido; Lai, Xin; Eberhardt, Martin; Vera, Julio

G04-07-P84 M

Shedding Light on data-driven docking

Jiménez-García, Brian; Roel-Touris, Jorge; Bonvin, Alexandre M.J.J.

G04-08-P85 F,M

Exploiting metabolic gene expression for prostate cancer stratification

Viera Bardón, Cristina; Astobiza, Ianire; Cortázar, Ana Rosa; Torrano, Verónica; Carracedo, Arkaitz

G04-09-P86

Computational analyses of sumoylation in protein kinases: a biomedical perspective

Medina, Patricia; Casares, Fernando; Rojas, Ana M.

G06. Biochemistry and Molecular Biology of Plants

G06-01-OI

Arabidopsis-spider mite interphase: an updated insight into defence mechanisms

Santamaria, M. Estrella; Arnaiz, Ana; Grbic, Vojislava²; Martinez, Manuel; Diaz, Isabel

G06-02-OI

Artificial small RNA-based regulation of gene expression and antiviral defense in plants

Carbonell, Alberto

G06-03-OS M

Biochemical identification and analysis of ADT-like proteins from plants

De la Torre, Fernando; El-Azaz, Jorge; Ávila, Concepción; Cánovas, Francisco M.

G06-04-OS

From multi-omics analysis to phenolic metabolism reconstruction in *Quercus ilex*

Infantes-González, Álvaro; Rey, María-Dolores; Jorrín-Novo, Jesús V.; López-Hidalgo, Cristina

G06-05-P87

Identification of elements involved in the drought tolerance in soybean plants

Sahrawy, Mariam; Demicheli, Josefina; Pérez, Cecilia²; Pérez, Marisa; Rojas, José Antonio; Pineda, Mónica; De Brasi, Sabrina¹; Ballestrasse, Karina; Barón, Matilde; Pozo, María José; Pagano, Eduardo; Serrato, Antonio Jesús

G06-06-P88

Study of the NPF and NRT transporter families in the conifer *Pinus pinaster*

Valderrama, Jose Miguel; Ortigosa, Francisco; Avila, Concepcion; Canovas, Francisco; Canas, Rafael

G06-07-P89

Hydrogen sulfide regulates autophagy through posttranslational modification

Gotor, Cecilia; Laureano-Marín, Ana; Aroca, Ángeles; Jurado-Flores, Ana; Romero, Luis C.

G06-08-P90

Small molecule epigenetic modulators to improve somatic embryogenesis yield for regeneration and breeding of cork oak

Teestillano, Pilar S.; Carneros, Elena; Díaz-Luzza, Esteban M.; Pérez-Pérez, Yolanda; Bárány, Ivett; Risueño, María-Carmen

G06-09-P91 F,M

Identification of the Arabidopsis BCL2-

Associated Athanogene (BAG) 4 protein as a KAT1 potassium channel regulator

Mulet, José M.; Locascio, Antonella; Marqués, María del Carmen; García-Martínez, Guillermo; Corratge-Faillie, Claire; Rubio, Lourdes; Fernández, José Antonio; Véry, Anne-Aliénor; Yenush, Lynne

G07. Molecular Biotechnology

G07-01-OI

Biocatalysis in solid state. New avenues in chemical biomanufacturing

Lopez-Gallego, Fernando

G07-02-OI

Ancestral sequence reconstruction towards protein engineering for novel nanomaterials

Barandiaran, Leire; Alonso-Lerma, Borja; Pérez-Jiménez, Raúl

G07-03-OS

Targeting the Inflammasome in Breast Cancer Models

Soriano, Paula María

G07-04-OS M

Design and production of customized oligosaccharides by enzymatic catalysis

Barrena, Marta; Alvarez, Beatriz; Tortajada, Marta

G07-05-OS M

Nanoparticle-mediated delivery of engineered Cpf1 for the generation of improved genome editing tools

Escalona-Noguero, Carmen; Luengo, Yurena; Lafuente-Gomez, Nuria; Latorre, Ana; Salas, Gorka; Somoza, Álvaro; Sot, Begoña

G07-06-OS

Secondary benzyl-alcohol oxidase by directed evolution

Viña-Gonzalez, Javier; Jimenez-Lalana, Diego; Sancho, Ferran; Serrano, Ana; Martínez, Angel T.; Gualar, Victor; Alcalde, Miguel

G07-07-OS

Titin-based hydrogels: properties beyond muscle passive elasticity

Huerta-Lopez, Carla; Velazquez-Carreras, Diana; Gutierrez-Rus, Luis; Herrero-Galan, Elias; Alegre-Cebollada, Jorge

G07-08-P92

In vitro evaluation of folate-targeted BSA/Alginate nanoparticles as vehicles for paclitaxel administration

Olmo, Rosa; Benito, Marta; Martinez, Ana María; Teijon, Cesar; Alonso, Isabel; Perez, Elena; Blanco, María Dolores

G07-09-P93 F,M

Golden Heart. X ray Fluorescence detection of a golden nanocluster with myocardial antifibrotic action

Maestro, David; Sanchez-Cano, Carlos; Ruíz del Rio, Jorge; Lopez-Martínez, Elena; Palanca, Ana; Cáceres, Rodrigo; Chavez, Tatiana; Geraki, Kalotina; Lopez Cortajarena, Aitziber; Villar, Ana V.

G07-10-P94 F,M

One step forward to the encapsulation of a promising antifibrotic fluorescent strategy into EVs from fibroblasts

Ruiz del Rio, Jorge; Maestro Lavín, David; Palanca Cuñado, Ana; Villar, Ana V.

G07-11-P95

Resurrection, characterization and directed evolution of an ancestral high-redox potential laccase

Gómez, Bernardo José; Rueda, Andrés Mauricio; Risso, Valeria; Sánchez, José Manuel; Alcalde, Miguel

G07-12-P96

Selective synthesis of the human drug metabolite 5-hydroxypropranolol by an evolved self-sufficient peroxygenase

Gomez de Santos, Patricia; Canellas, Marina; Tieves, Florian; Younes, Sabry H H; Molina-Espeja, Patricia; Hofrichter, Martin; Hollmann, Frank; Guallar, Victor; Alcalde, Miguel

G07-13-P97 F,M

Family of thermostable fungal laccase chimeras designed by SCHEMA-RASPP structure-guided recombination in vivo

Mateljak , Ivan; Rice, Austin; Yang, Kevin; Tron, Thierry; Alcalde, Miguel

G07-14-P98

Engineering metalloenzymes to enhance MEP pathway for the production of highly valuable chemicals

Garcia Ruiz, Eva; Alcalde, Miguel

G07-15-P99 F

Characterization of TthPrimPol and obtention of variants for Genomic DNA amplification

Calero-Muñoz, Nieves; Frutos-Beltrán, Estrella; Picher, Ángel; Blanco, Luis

G07-16-P100 F,M

Optimization of expression vectors based on the maltose-binding protein

Reche Pérez, Francisco José; Plesselová, Simona; De los Reyes Berbel, Eduardo; Ortega Muñoz, Mariano; Blanco Suárez, Víctor; Hernández Mateo, Fernando; Santoyo González, Francisco; Salto González, Rafael; Girón González, María Dolores

G07-17-P101 F,M

Cytotoxic and proteomic profile analysis of human blood cells treated with gallic acid and resveratrol in vitro

Niño Herrera, Sujey Abigail; **Govea Salas, Mayela**; Iliná, Anna; Chávez González, Mónica Lizeth; Aguilar González, Cristóbal Noé; Contreras Esquivel, Juan Carlos

G08. Teaching Biochemistry

G08-01-OI

¿Pueden los alumnos diseñar y ejecutar sus experimentos en prácticas?

Sánchez-Pérez, Isabel; Del Peso, Luis; Calvo, Víctor; Castaño, José G.; Rojo, Ana I.; Lasa, Marina; Martínez-Costa, Oscar; Redrejo-Rodríguez, Modesto; Jiménez, Benilde; **Arredondo, Juan J.**

G08-02-OI

Aprendizaje cooperativo para diseñar un sencillo proyecto de investigación

Lastres-Becker, Isabel; **Lasa, Marina**

G08-03-OI

Enseñar para aprender Bioquímica. Un proyecto de aprendizaje-servicio para alumnos del Grado en Veterinaria

Ibarguren, Izaskun; Rodríguez, J. Luis; Villamarín, Antonio

G08-04-OI

Enseñanza de la cinética enzimática en la modalidad de Aula Invertida

Santos, Guido; Torres, Néstor

G08-05-P102

La técnica puzzle de Aronson como herramienta de aprendizaje cooperativo para la enseñanza del metabolismo en Bioquímica

Busto, M.D.; Ortega, N.; Ramos-Gómez, S.; Pilar-Izquierdo, M.C.; Albillos, S.M.; Palacios, D.

G08-06-P103 F,M

Molecular Biology Techniques for 1st Year Psychology Students

Muñoz-Sáez, Emma; Verde Rello, Zoraida; Yvert, Thomas; Santiago, Catalina

G08-07-P104

Learn experimental design and understand UV-VIS spectrophotometry without wetting your hands

Herráez, Angel

G08-08-P105

Diseño de una herramienta de evaluación del Trabajo de Fin de Máster para los estudios de Máster en Nutrigenómica y Nutrición Personalizada**Ribot, Joan**; Rodríguez, Ana M.; Bonet, M. Luisa; Palou, Andreu; Picó, Catalina; Serra, Francisca; Yau Qiu, Zhi Xin

G08-09-P106

Integrated learning of metabolism and nutrition for the basic training of first-year Dentistry students. An experience based on the WSLA (Work Station Learning Activity) model**Cid Torres, Maria Antonia**; Novillo, Apolonia; Tabone, Mariangela; García Higuera, Irene; Blanco Fernández de Valderrama, María José; González Soiltero, Maria del Rocío

G08-10-P107

Modelo predictivo del rendimiento académico de los estudiantes de primer año de los grados de ciencias**Dorta-Guerra, Roberto**; Marrero, Isabel; Abdul-Jalbar, Beatriz; Trujillo-González, Rodrigo; **Torres, Néstor**

G08-11-P108

Aplicación de un nuevo sistema de evaluación basado en trofeos en asignaturas de los grados de Bioquímica y Biología**Ferrer, Miguel D.**; Mercader, Josep; Rodríguez, Adrián; Oliver, Paula

G08-12-P109

Standardized Oral Glucose Load to Introduce Integration of Carbohydrate Metabolism in Health Sciences**Castillo, Carlos Alberto**; Ballesteros-Yáñez, Inmaculada; Mariano-Juárez, Lorenzo; Conde-Caballero, David; Rodríguez-Martín, Beatriz

G08-13-P110

Learning of the university student through gamification tools in Dentistry**Ricco, Natalia**; Bru, Samuel; Ponte, Mariana; Quandt, Eva; Jimenez, Javier; Clotet, Josep

G08-14-P111 F

Data-Driven Structural Bioinformatics: The HADDOCK/WeNMR Ecosystem**Jiménez-García, Brian**; Schaarsmidt, Jörg; Trellet, Mikael E.; Koukos, Panagiotis I.; Bonvin, Alexandre M.J.J.

G08-15-P112 F

Microteatro en el aula: Hemoglobina como actriz principal**Viana, Marta**; Alcalá, Martín

G08-16-P113

Use of video-works as a teaching tool to promote the use of English in science studies**Oliver, Paula**; Reynés, Bárbara; Sánchez, Juana

G08-17-P114

Youtube: a present and future learning tool**Pons, Daniel G**; Díaz.Grijuela, Elisa; Oliver, Jordi; Sastre-Serra, Jorge; **Roca, Pilar**

G08-18-P115

Estructura-Funcion de Macromoleculas: JSmol como una herramienta para el aprendizaje**Sastre-Serra, Jorge**; Cibou, Nicolae; Lladó, Isabel; Pons, Daniel G; Pons, Daniel G; **Oliver, Jordi**; Roca, Pilar

G08-19-P116

Clase inversa y aprendizaje activo para incentivar la participación y la motivación de los alumnos en clases prácticas de la asignatura Biotecnología Microbiana del Grado en Biotecnología**González, Andrés**; Fillat, María F.

G08-20-P117

La Tabla Periódica como recurso didáctico para el aprendizaje de los bioelementos**Fernández Novell, Josep Maria**

G08-21-P118

Experimental model of co-operative teaching and co-evaluation of Biochemistry, Molecular and Cellular Biology**Busquets, Xavier**; Thode, Christian; Fernández, Arsenio

G08-22-P119 F

Perdido en el núcleo... ¿Cómo salir descifrando el código genético? Una iniciativa de gamificación en Biología Molecular**Manzano, Anna**; Simon, Helga; Vidal, Anna; Sanchez, Cristina; Pimenta, Carolina; García, Jesús

G08-23-P120 F

Problemas sin problemas para ciencias de la salud**Simon-Molas, Helga**; Vidal-Alabré, Anna; Iglesias, Daniel; Giménez-Bonafé, Pepita; Manzano, Anna**G10. Genomics and Proteomics**

G10-01-OI

Quantitative Trait Loci and molecular subphenotypes linked to cardiotoxicity susceptibility due to chemotherapy by anthracyclines**Pérez Losada, Jesús**

G10-02-OS M

Improving the knowlegde of B-cell Chronic Lymphocytic Leukemia by Functional Proteomics Approaches

Juanes Velasco, Pablo; Díez, Paula; Droste, Conrad; González, Marcos; Landeira Viñuela, Alicia; Manzano, Raúl; Orfao, Alberto; De Las Rivas, Javier; Fuentes, Manuel

G10-03-OS

Connexin43-positive exosomes efficiently induce cellular senescence via p53/p16(INK4A) in target cells contributing to osteoarthritis progression

Varela-Eirín, Marta; Varela-Vázquez, Adrián; Guitián-Caamaño, Amanda; Bravo-López, Susana B.; Blanco, Alfonso; Largo, Raquel; Fonseca, Eduardo; Caeiro, José R.; Mayán, María D.

G10-04-P121 F,M

Nuclear and cytoplasmic interactions of HMGB1 in prostate and ovarian tumoral cells

Barreiro-Alonso, Aida; Cerdán, María Esperanza; Belmonte, María Esther; Lamas-Maceiras, Mónica

G10-05-P122

Searching for biomarkers in cumulus cells that reflect the oocyte competence

Baratas, Alejandro; De la Casa, Moisés; Camacho, Silvia; Gosálvez, Jaime; Roy, Rosa

G10-06-P123 F

Identification of new diagnostics biomarkers of Alzheimer's Disease by Phage Display and Protein Microarrays

Montero, Ana; San Segundo, Pablo; Garranzo, María; Solis, Guillermo; Sánchez, Maricruz; Barderas, Rodrigo

G10-07-P124

Phospho-proteomic analysis identifies proteins involved in human sperm motility

Serrano, Rebeca; Martín-Hidalgo, David; Hurtado de Llera, Ana; Calle-Guisado, Violeta; Gonzalez-Fernandez, Lauro; Bragado, María Julia; Garcia-Marin, Luis Jesús

G12. Nitrogen Metabolism

G12-01-OI

Advances and challenges in the regulation of nitrogen assimilation pathway in Haloarchaea

Esclapez, Julia; Bautista, Vanesa; Camacho, Monica; Pastor, Sandra; Payá, Gloria; Rodríguez-Herrero, Verónica; Zafrilla, Basilio; Bonete, M. José

G12-02-OI

Search for N-metabolism regulatory genes in Lotus japonicus

García-Calderón, Margarita; Pérez-Delgado, Carmen M.; Pal'ove-Balang, Peter; Betti, Marco; Márquez, Antonio J.

G12-03-OS

A new pathway for eukaryotic biosynthesis of auxin involves an extracellular L-amino acid oxidase in Chlamydomonas

Calatrava, Victoria; Hom, Erik FY; Llamas, Ángel; Fernández, Emilio; Galván, Aurora

G12-04-OS

Ammonium nitrate supply in spinach is positively correlated with increased active cytokinins and indole acetic acid and decreased abscisic acid

Rivero, Mikel; Zamarreño, Ángel M^a; García-Mina, José M^a; Aparicio-Tejo, Pedro M^a; Ariz, Idoia

G12-05-OS

Identificación de pequeños RNAs que controlan la destoxicación de residuos industriales cianurados por Pseudomonas pseudoalcaligenes CECT5344

Luque-Almagro, Víctor M.; Olaya-Abril, Alfonso; Pérez, M^a Dolores; Cabello, Purificación; Sáez, Lara P.; Moreno-Vivián, Conrado; Roldán, M^a Dolores

G12-06-OS

Regulation versus deregulation: an evolutionary perspective on the biochemical control of amino acids biosynthesis in plants

El-Azaz, Jorge; De la Torre, Fernando; Urbano, Alberto; Barcelona, Belén; Ávila, Concepción; Cánovas, Francisco M.

G12-07-P125

Nitrogen regulation in marine Cyanobacteria: Basis for the study of NtcA, PII and PipX

Giel, Judith; Escribano-Gómez, María Isabel; Jiménez-Estrada, Juan Andrés; Marín-Toral, Laura; García-Fernández, José Manuel; Díez, Jesús; López-Lozano, Antonio

G12-08-P126

Caracterización de la agrupación génica cynFABDS implicada en la asimilación de cianato en la bacteria cianotrofa Pseudomonas pseudoalcaligenes CECT5344

Moreno-Vivián, Conrado; Cabello, Purificación; Sáez, Lara P.; Luque-Almagro, Víctor M.; Roldán, M^a Dolores

G12-09-P127

A RING-type E3 ubiquitin ligase involved in nitrogen assimilation in the green alga Chlamydomonas reinhardtii

Romero, Ainoa; López, María Paula; Fernández, Emilio; Galván, Aurora; Tejada-Jiménez, Manuel

G12-10-P128 F

Bioinformatics analysis of *Pinus pinaster* Aiton transcriptome in response to ammoniacal nutrition

Lobato-Fernandez, Cesar; Ortigosa, Francisco; Valderrama-Martin, Jose M.; Avila, Concepcion; Canovas, Francisco M.; A. Canas, Rafael

G12-11-P129

Maintenance of the metabolic carbon flux is required for the response to nitrogen deprivation in *Synechocystis* sp. PCC 6803

Díaz-Troya, Sandra; Roldán, Miguel; Mallén-Ponce, Manuel J.; Ortega-Martínez, Pablo; Florencio, Francisco J.

G12-12-P130

Closing Krebs cycle in cyanobacteria: metabolic rewiring of carbon and nitrogen metabolism in *Synechocystis* sp. PCC 6803

Huertas, Maria Jose; Lopez-Maury, Luis; Gallardo, Antonia Maria; Florencio, Francisco Javier

G12-13-P131 F

Proteomic characterization of nitrate assimilation in marine *Synechococcus* strains

Melero-Rubio, Yesica; López-Lozano, Antonio; Domínguez-Martín, María Agustina; Díez, Jesús; García-Fernández, José Manuel; Gómez-Baena, Guadalupe

G12-14-P132

Transcriptional control of denitrification in *Haloferax mediterranei*

Pire, Carmen; Miralles-Robledillo, Jose María; Bernabeu, Eric; Martínez-Heredia, Luis; Torregrosa-Crespo, Javier; Martínez-Espinosa, Rosa María

G12-15-P133 F

ABA-mediated changes in root system architecture in tomato seedlings grown under nitrate and ammonium nutrition

González-Hernández, Ana Isabel; Scalschi, Loredana; Llorens, Eugenio; Fernández-Crespo, Emma; Liu, Luisa; Vicedo, Begonya; García-Agustín, Pilar; Camañes, Gemma

G12-16-P134

Understanding the roles of the glutamine synthetases in *Haloferax mediterranei*

Rodríguez-Herrero, Verónica; Payá, Gloria; Bautista, Vanesa; Camacho, Mónica; Bonete, María José; Esclapez, Julia

G12-17-P135

Archaeal Like-Sm protein of *Haloferax mediterranei*: analysis of the expression, construction and characterization of deletion mutants in different nitrogen sources

Payá, Gloria¹; Bautista, Vanesa; Camacho, Mónica; Esclapez, Julia; Bonete, María José

G12-18-P136

Involvement in the nitrogen cycle of the transcriptional regulator AsnC in *Haloferax mediterranei*

Sánchez-Matarredona, Laura; Bonete, María-José; Bautista, Vanesa; Esclapez, Julia; Camacho, Mónica

G12-19-P137 F

2-Oxoglutarate Enhances FurA Binding Activity to the *ntcA* Promoter in *Anabaena* PCC 7120

Sarasa-Buisán, Cristina; Guío, Jorge; Velázquez-Campoy, Adrián; Bes, Teresa; Fillat, María F.; Peleato, María L.; Sevilla, Emma

G12-20-P138

Expression analysis of *ArsR* transcriptional regulator in *Haloferax mediterranei*

Pastor-Soler, Sandra; Bautista, Vanesa; Camacho, Mónica; Bonete, María José; Esclapez, Julia

G13. Molecular Neurobiology

G13-01-OI

Molecular Mechanisms of neurodegeneration in Spinal Muscular Atrophy: Autophagy deregulation

Garcerá, Ana; Hidalgo, Ivan; De la Fuente, Sandra; Sansa, Alba; Vivancos, Nùria; Soler, Rosa M.

G13-02-OI

Molecular aspects of Staufen 2- dependent recognition and regulation of neuronal localized mRNAs

Fernández Moya, Sandra M.; Chakrabarti, Anob M.; Lee, Flora C.Y.; Ehses, Janina; Luscombe, Nicholas M.; Ule, Jernej; Kiebler, Michael A.

G13-03-OS

Exploring the role of arginine-rich peptides in neurodegeneration

Sirozh, Oleksandra; Lafarga, Vanesa; Fernández-Capetillo, Oscar

G13-04-OS

Neurogranin expression is regulated by synaptic activity and promotes synaptogenesis in cultured hippocampal neurons

Diez-Guerra, F Javier; De Andres, Raquel; Martinez Blanco, Elena; Garrido-Garcia, Alberto

G13-05-OS M

APC/C-Cdh1 promotes brain repair after ischemia through the RhoA-ROCK2 pathway

Agulla, Jesus; Lapresa, Rebeca; Almeida, Angeles

G13-06-OS

Acute Δ^9 -Tetrahydrocannabinol administration accelerates oligodendrocyte development and regeneration

Hueriga-Gomez, Alba; Aguado, Tania; Sanchez, Anibal; Guzman, Manuel; Galve-Roperh, Ismael; Palazuelos, Javier

G13-07-OS M

Preservation of retinal synapsis and visual function with human proinsulin in the rd10 mouse model of retinitis pigmentosa

Sanchez-Cruz, Alonso; Hernández-Pinto, Alberto; Lillo, Concepción; Isiegas, Carolina; Marchena, Miguel; Bosch, Fatima; De Pablo, Flora; Lizasoain, Ignacio; De la Villa, Pedro; De la Rosa, Enrique; Hernández-Sánchez, Catalina

G13-08-P139

The effects of amyloid beta on primary hippocampal astrocyte cultures are sex-dependent

Frago, Laura María; Lennol, Matthew Paul; Canelles, Sandra; Freire-Regatillo, Alejandra; Guerra-Cantera, Santiago; Argente, Jesús; García-Segura, Luis Miguel; López de Ceballos, María; Chowen, Julie Ann

G13-09-P140

Glia-to-neuron transfer of inflammatory proteins and miRNAs via extracellular vesicles: A new mechanism underlying ethanol-induced neuroinflammation

Ibáñez, Francesc; Ureña-Peralta, Juan Ramón; Pascual, María; Guerri, Consuelo

G13-10-P141 F,M

Mitochondrial movement in Aralar deficient neurons

Contreras, Laura; Puertas, Guillermo; Pardo, Beatriz; Del Arco, Araceli; Sastrustegui, Jorgina

G13-11-P142 F

Retinal damage induced by perinatal asphyxia is prevented with Methylene blue treatment

Pelaez, Rafael; Fernandez, Juan C.; Rey-Funes, Manuel; Soliño, Manuel; Contartese, Daniela S.; Pariente, Ana; Ochoa, Rodrigo; Perez-Sala, Alvaro; Dorfman, Veronica B.; Lopez-Costa, Juan J.; Martinez, Alfredo; Loidl, Cesar F.; Larrayoz, Ignacio M.

G13-12-P143

Live Imaging Followed by Single Cell Tracking to Monitor Cell Biology and the Lineage Progression of Multiple Neural Populations

Paniagua Herranz, Lucía; Gómez-Villafuertes, Rosa; Gascon, Sergio; De Agustín-Durán, David; Queipo, María José; Gil-Redondo, Juan Carlos; Benito-León, María; Pérez-Sen, Raquel; G. Delicado, Esmerilda; Miras-Portugal, María Teresa; Ortega, Felipe

G13-13-P144

P2X7 receptor regulates the inducible nuclear dual-specificity phosphatase 1 in rat cerebellar astrocytes

Gil-Redondo, Juan Carlos; Queipo, María José; Paniagua-Herranz, Lucía; G. Delicado, Esmerilda; Pérez-Sen, Raquel; Ortega, Felipe; Miras-Portugal, María Teresa

G13-14-P145 F

Sporadic Alzheimer's disease: searching its pathogenic mechanisms by exhaustive deconstruction of the distinct levels of information in a micro-array

Guebel, Daniel V.; Acebes, Ángel; Torres, Néstor

G13-15-P146

Alteration of excitatory/inhibitory balance in the brain of adolescent rats treated with alcohol and/or cocaine

Marcos, Alberto; Pardo, Felipe; Corral, Lorena; Rodriguez, Miguel; Munoz-Rodriguez, Jose Ramon³; Ambrosio, Emilio; Castillo, Carlos Alberto; Ballesteros-Yanez, Inmaculada

G13-16-P147 F,M

Exogenous organelle acquisition remodels the native mitochondrial network in glioblastoma cells

Yunta, Sara; Luengo-Gutiérrez, Lucía; Bolaños, Juan P.; Quintana-Cabrera, Ruben

G13-17-P148 F

CPT1A inactivation in astrocytes as a tool to understand roles of fatty acid β -oxidation on brain bioenergetics

Morant Ferrando, Brenda; Jimenez-Blasco, Daniel; Fernández, Emilio; Carmeliet, Peter; Almeida, Angeles; Bolaños, Juan P.

G13-18-P149

Brain neovascularization determines functional recovery after intracerebral hemorrhage through the p53 signaling pathway

Rodríguez, Cristina; Carabias-Carrasco, Mónica; Resch-Beusher, Mónica; Prieto, Estefanía; Almeida, Angeles

G13-19-P150 F,M

WRAP53 fosters DNA repair and neuronal survival after ischemia

Sánchez-Morán, Irene; Rodríguez, Cristina; Almeida, Ángeles

G13-20-P151 F,M

Amyloid- β promotes neurotoxicity by Cdk5-induced p53 stabilization

Lapresa, Rebeca; Agulla, Jesús; Almeida, Angeles

G13-21-P152 F,M

P53 orchestrates the inflammatory response in an in vivo model of amyloid-beta-induced neurodegeneration

González-Guerrero, Sonia; Lapresa, Rebeca; Agulla, Jesus; Almeida, Angeles

G13-22-P153

Effects of the environmental enrichment in *Sparusaurata* on the antioxidant system and monoaminergic synthesis

Tejada, Silvia; Sureda, Antoni; Moranta, David; Jiménez, Manuel; Juan Carlos, Juan Carlos; Esteban, Susana; Arechavala, Pablo

G13-23-P154 F,M

Glutamatergic Dysfunction in Autism: A bed to bench approach to the study of Synapsin synaptopathies

Bertram, Craig; Bambini-junior, Victorio; Adamson, Antony; Humphreys, Neil; Ashton, Antony; Gonzalez-Gonzalez, Inmaculada M

G13-24-P155 F

Cholinergic mechanisms in the rostradorsal pontine tegmentum organize the transition between slow-wave sleep and REM sleep

Carrera-Cañas, Carlos; Garzón, Miguel; De Andrés, Isabel

G13-25-P156

MRI, MRS and FDG-PET studies in brain of Lafora disease mouse models

Sánchez, Marina P.; Fernandez-Burgos, Daniel; Cussó, Lorena; Sánchez, Gentzane; Calle, Daniel; Desco, Manuel; Serratosa, José M.

G13-26-P157

Long-term oral anticoagulation delays Alzheimer's disease pathogenesis in the TgCRND8 mouse model

Cortes-Canteli, Marta; Kruyer, Anna; Fernandez-Nueda, Irene; Marcos-Diaz, Ana; Richards, Allison T.; Jno-Charles, Odella C.; Rodriguez, Ignacio; Callejas, Sergio; Norris, Erin H.; Sanchez-Gonzalez, Javier; Ruiz-Cabello, Jesus; Ibanez, Borja; Strickland, Sidney; Fuster, Valentin

G13-27-P158

Functional heteromers formed by alpha-1A adrenoceptors and dopamine D1 receptors with possible relevance to attention modulation

Homar-Ruano, Patricia; Ferre, Sergi; Casado, Vicent; Moreno, Estefania*; Canela, Enric I.*. *Senior co-authors

G13-28-P159

Heteroreceptor complexes formed by dopamine D1 or histamine H3 and N-methyl-D-aspartate glutamate receptors are expressed in a Huntington's disease striatal cell model

Castellanos-Martínez, Antonio; Llopart, Natàlia; Casadó-Anguera, Verònica; Rodríguez-Ruiz, Mar; Canela, Enric I.; Cortés, Antonio; Moreno, Estefanía*; Casadó, Vicent*. *Senior co-authors

G13-29-P160 F,M

Immunohistochemistry of peripheral sensory neurons in mice DRGs

Martínez, Marcos; Ruiz, María del Carmen; Bravo, Inmaculada; Cobos, Enrique José

G14. Molecular Parasitology

G14-01-OI

Tracking the humoral immune response to malaria in populations of endemic regions

Puyet, Antonio; Abad, Paloma; Marín-García, Patricia; González-Azcárate, Isabel; Pérez-Benavente, Susana; Reche, Pedro A.; Rubio, Jose M.; Martínez-Serna, Alejandra; Díez-Espallargas, Luis; Abad, Ana¹; Díez, Amalia; Bautista, José M.

G14-02-OI

Chemoinformatics as a powerful tool to fight parasitic diseases

Campillo, Nuria

G14-03-OS M

Comparative proteomic analysis of Trypanosoma cruzi strains trypomastigotes

Herreros-Cabello, Alfonso; Callejas-Hernández, Francisco; Gironès, Núria; Fresno, Manuel

G14-04-OS

Proteomic study of the changes induced by F. hepatica newly excysted juveniles (NEJ) on the host's intestinal epithelial cells

Becerro-Recio, David; González-Miguel, Javier; Sotillo, Javier; Simón-Martín, Fernando; Siles-Lucas, Mar

G14-05-P162

Mitochondrial genome of Leishmania: maxicircle structure and heterogeneity of minicircles

Camacho, Esther; Rastrojo, Alberto; Sanchíz, África; Gonzalez-de la Fuente, Sandra; Aguado, Begoña; Requena, Jose María

G14-06-P163 F,M

Leishbox collection as a source for new inhibitors against Glycogen synthase kinase 3 from Leishmania donovani

Campillo, Nuria; Tremper, Catherine S; Sebastian-Pérez, Victor; Martinez de Iturrate, Paula; Nacher-Vázquez, Montserrat; Gil, Carmen; Rivas, Luis

G14-07-P164

Imidazo[2,1-a]isoindole as a new leishmanicidal scaffold acting on the energy metabolism of Leishmania

Rivas, Luis; Arsène, Sobison; Gómez-Pérez, Verónica; Escarcena, Ricardo; Abengózar, María Ángeles; García-Hernández, Raquel; Nacher-Vázquez, Montserrat; San Feliciano, Arturo; Gamarro, Francisco; Del Olmo, Esther

G14-08-P165

Identification of new Plasmodium falciparum antigens associated to IgM response in a hyperendemic malaria population of Ghana

Abad, Paloma; G.Azcárate, Isabel; Heras, Marcos; Grant Hutchful, Alfred; Fobil, Julius; Pérez-Benavente, Susana; Marín-García, Patricia; Puyet, Antonio; Díez, Amalia; Bautista, José Manuel

G14-09-P166

The protein kinase Jean3 from Leishmania major modulates parasite infectivity and induces the host protective immune response

Fernández Rubio, Celia; Vacas, Andrés; Peña Guerrero, José; Rocha Formiga, Fabio; Larrea, Esther; Nguewa, Paul

G14-10-P167

Identification of compounds interacting with a novel therapeutic target. Validation of new leishmanicidal candidates

Nguewa, Paul; Peña-Guerrero, José; Larrea, Esther; Burguete, Aroia; Fernández-Rubio, Celia

G14-11-P168 F

New method for assessment of Trypanothione Synthetase activity to evaluate putative inhibitory molecules

López Gutiérrez, Celia; García Soriano, Juan Carlos; Jiménez Ruiz, Antonio

Communications accepted by the 42nd SEBBM Congress, have been organised into scientific groups.

Each communication has been assigned the next code: **GXX-YY-ZZ f,m**.

- **GXX**: the SEBBM Scientific Group
- **YY**: the number of that communication in its respective group
- **ZZ**: OS (oral selected) or OI (oral invited) or P (the number of the panel in which the poster should be mounted)
- **f,m**: “f” application for the Poster Prize (sponsored by FEBS Letters and SEBBM) or “m” the Lilly-Margarita Lorenzo Prize.

The Book of Abstracts is available on-line at: <https://congresosebbm.madrid2019.es/>

Posters, Thursday, July 18th

Posters presented on Thursday July 18th should be mounted from Wednesday 17th at 20:30 h to Thursday 18th at 20:30 h.

Presenting authors with **even numbers** should stand at their poster from 18:30 to 19:30 h.

Presenting authors with **odd numbers** should stand at their poster from 19:30 to 20:30 h.

Presenting Groups: **G05, G09, G11, G15, G16, G17, G18**

G05. Chemical Biology

G05-01-OI

Mechanisms of tissue-specific and time-dependent metastasis

Gomis, Roger

G05-02-OI

Protein-stabilized metal nanoclusters as tools for sensing and imaging

Cortajarena, Aitziber L.

G05-03-OS

Computational chemical biology tools to approach Toll-like receptor 4

Martín-Santamaría, Sonsoles; Guzmán-Caldentey, Joan; Matamoros, Alejandra

G05-04-OS

New targets for metastatic Breast Cancer: Role of the pro-inflammatory cytokine Oncostatin M

Caffarel, Maria M; Araujo, Angela; Abaurrea, Andrea; Rezola, Ricardo; Bragado, Paloma; Carracedo, Arkaitz; Calvo, Fernando; Coleman, Nicholas; Isacke, Clare; Lawrie, Charles H

G05-05-OS

Computer Design and Directed Evolution of a Highly Active and Enantioselective Metallo-Hetero-Diels-Alderase

Jiménez-Osés, Gonzalo; Basler, Sophie; Studer, Sabine; Houk, Kendall N.; Hilvert, Donald

G05-06-OS M

Modulating synapse number by regulating NCS-1/Ric8a complex formation

Mansilla, Alicia; Canal-Martín, Andrea; Saiz, Almudena; Fernández-Beltrán, Luis; Chaves-Sanjuán, Antonio; Campillo, Nuria; Martínez, Ana; Ferrus, Alberto; Pérez-Fernández, Ruth; Sánchez-Barrena, Maria José

G05-07-P1

Insights into the mechanism of action of Tse8, a toxin delivered by the Type-VI Secretion System (T6SS) in *Pseudomonas aeruginosa*

Albesa-Jove, David

G05-08-P2

Amoxicillin inactivation by thiol-catalyzed cyclization reduces protein haptentation and antibacterial potency

Pajares, María Ángeles; Sánchez-Gómez, Francisco J.; Torres, María J.; Cañada, F. Javier; Montañez, María I.; Pérez-Sala, Dolores

G05-09-P3

Kinetic modelling of thermal inactivation of industrial lipases from *Rhizomucor miehei* and *Burkholderia cepacia*

Busto, M.D.; Ortega, N.; Sáez, L.; Albillos, S.M.; Pilar-Izquierdo, M.C.; Ramos-Gómez, S.; Palacios, D.

G05-10-P4 F,M

Uncovering genes implicated in therapy-induced senescence resistance

Carpintero-Fernandez, Paula; Borghesan, Michela; O’Loghlen, Ana

G05-11-P5

Understanding the role of LOXL3 in melanoma-genesis

Vázquez-Naharro, Alberto; Bustos, José; Santos, Vanesa; Cano, Amparo; G. Santamaria, Patricia

G05-12-P6

BSA-Stabilized Gold Nanoclusters for Breast Cancer Treatment

Latorre, Ana; Latorre, Alfonso; Lazaro-Carrillo, Ana; Aguado, Tania; Castellanos, Milagros; Lecea, Mercedes; Calero, Macarena; Sanchez-Puelles, José María; Villanueva, Angeles; Somoza, Álvaro

G05-13-P7 F

Insights in the recognition of *Listeria* cell wall teichoic acids by a phage-derived cell wall binding module

Kalograiaki, Ioanna; Shen, Yang; Menéndez, Margarita; Prunotto, Alessio; Hernández, Noelia; Dal Peraro, Matteo; Cañada, Francisco Javier; Loessner, Martin

G05-14-P8 F

A c-Src inhibiting peptide based on Connexin43 regulates glucose metabolism in human glioma stem cells

G. Pelaz, Sara; Jaraíz-Rodríguez, Myriam; Talaverón, Rocío; García-Vicente, Laura; Gómez de Cedrón, Marta; Tabernero, María; Ramírez de Molina, Ana; Medina, José M.; Tabernero, Arantxa

G05-15-P9

Chemical biology studies of improved QS-21-based vaccine adjuvants: novel biochemical tools for mechanistic investigations and molecular vaccines

Fernández-Tejada, Alberto

G05-16-P10 F,M

The PGC1 α -ERR α axis suppresses the invasive capacity of prostate cancer

Macchia, Alice; Valcarcel-Jimenez, Lorea; Crosas Molist, Eva; Camacho, Laura; Viera-Bardón, Cristina; Martin-Martin, Natalia; Schaub, Ariane; Fernandez, Sonia; Hermanova, Ivana; Astobiza, Iainire; Cortazar, Ana Rosa; Corres-Mendizabal, Jon; Gomez-Muñoz, Antonio; Sanz-Moreno, Victoria; Torrano, Verónica; Carracedo, Arkaitz

G05-17-P11 F

Transcriptomic data analyses of kidneys from male and female pigs subjected to acute kidney injury (AKI) and validation of selected targets in the human proximal tubule derived epithelial cell (RPTEC) model

Nemours, Stephane; Castro, Luis; Ribatallada Soriano, Didac; Aranda, Miguel; Ferrer, Marina; Morote, Juan; Meseguer, Anna

G05-18-P12

A novel directed chemotherapy based on choline kinase alpha inhibitors adsorbed on biomimetic magnetic nanocarriers

Vílchez García, Jesús; Jabalera, Ylenia; Sola Leyva, Alberto; Peigneux Navarro, Ana; Vurro, Federica; Iglesias, Guillermo; López Cara, Luisa Carlota; Carrasco Jiménez, María Paz; Jiménez López, Concepción

G09. Protein Structure and Function

G09-01-OI

Conformational Activation Promotes CRISPR-Cas12a Catalysis and Resetting of the Endonu-**lease Activity**

Stella, S¹; Mesa, P; Thomsen, J; Paul, B; Alcón, P; Jensen, SB; Saligram, B; Moses, ME; Hatzakis, NS; Montoya, G

G09-02-OI

Volta phase plate cryo-EM structures reveal the coupling specificity between GPCRs and heterotrimeric G-proteins

García-Nafría, Javier

G09-03-OS

Descifrando las bases moleculares de la comunicación entre fagos

Marina, Alberto; Gallego del Sol, Francisca; Penadés, José Rafael

G09-04-OS

Molecular basis of the neuroprotective effect of cytochrome *c* phosphorylation

Guerra-Castellano, Alejandra; Pérez-Mejías, Gonzalo; Díaz-Quintana, Antonio; De la Rosa, Miguel A; Díaz-Moreno, Irene

G09-05-OS

A quaternary tetramer assembly inhibits the deubiquitinating activity of USP25

Reverter, David

G09-06-OS

Dynamics of ParB and the critical role of the CTD in DNA condensation unveiled by combined force-fluorescence measurements

Madariaga-Marcos, Julene; Pastrana, César L.; Fisher, Gemma L. M.; Dillingham, Mark S.; Moreno-Herrero, Fernando

G09-07-OS

Deciphering the Long- and Short- Range Glycosylation Preferences of GalNAc-Ts enzymes

De las Rivas, M.; Paul Daniel, E.J.; Gerken, T.A.; Hurtado-Guerrero, R.

G09-08-P13 F,M

Combining optical tweezers with IRM, TIRF, Widefield and STED: a platform for dynamic single molecule analysis

Llauró, Aida; Mukhortava, Ann; Hendriks, Maurice

G09-09-P14 F

In vivo titin oxidation as a regulator of muscle elasticity

Herrero-Galán, Elías; Martínez-Martín, Inés; Vicente, Natalia; Sánchez-González, Cristina; Velázquez-Carreras, Diana; Bonzón-Kulichenko, Elena; Calvo, Enrique; Vázquez, Jesús; Alegre-Cebollada, Jorge

G09-10-P15

Spider silk proteins: Building blocks of the toughest material

Pérez-Rigueiro, José; Elices, Manuel; Guinea, Gustavo Víctor

G09-11-P16

The CNB-CIB cryoelectron microscopy facility: a powerful instrument for the acquisition of high-resolution data

Valpuesta, José María; Arranz, Rocío; Chichón, Francisco Javier; Núñez, Rafael; Carrascosa, José L.

G09-12-P17

Optogenetic Navigation of Routes Leading to Protein Amyloidogenesis in Bacteria

Giraldo, Rafael

G09-13-P18 F,M

AFM shows that human CtIP forms a tetrameric dumbbell-shaped particle which binds and bridges DNA ends

Martin-Gonzalez, Alejandro; Wilkinson, Oliver; Kang, Haejoo; Northall, Sarah; Wigley, Dale; Dillingham, Mark; Moreno-Herrero, Fernando

G09-14-P19

Thiol-based redox signaling and regulation: diversity of the thioredoxin system

Balsera, Monica; Buey, Rubén M.; Buchanan, Bob B.

G09-15-P20

Understanding the Biophysics of Protein-Surface Interactions

Ortega, Gabriel; Kurnik, Martin; Dauphin-Ducharme, Philippe; Li, Hui; Arroyo-Currás, Netzahualcōyotl; Plaxco, Kevin W.

G09-16-P21

Characterizing simple microfluidic approaches for a fast and efficient reagent exchange in single-molecule studies

Madariaga-Marcos, Julene; Corti, Roberta; Mantegazza, Francesco; Moreno-Herrero, Fernando

G09-17-P22

Dissecting the First Steps of Rolling-Circle Replication using Magnetic Tweezers

Carrasco, Carolina; Pastrana, César L.; Aicart-Ramos, Clara; Leuba, Sanford H.; Khan, Saleem A.; Moreno-Herrero, Fernando

G09-18-P23

Deciphering vimentin organization through the zinc/cysteine crosstalk using crosslinking and molecular modelling

Perez-Sala, Dolores; Monico, Andreia; Guzman-Caldentey, Joan; Martin Santamaria, Sonsoles; Pajares, Maria Angeles

G09-19-P24 F,M

A HaloTag-TEV genetic cassette for mechanical phenotyping of native proteins

Rivas-Pardo, Jaime Andrés; Li, Yong; Mártonfalvi, Zsolt; Tapia-Rojo, Rafael; Unger, Andreas; Fernández-Trasancos, Ángel;

Herrero-Galán, Elías; Velázquez-Carreras, Diana; Linke, Wolfgang A.; Fernández, Julio M.; Alegre-Cebollada, Jorge

G09-20-P25 M

Crystal structures of bacteriophage receptor binding proteins

Van Raaij, Mark Johan

G09-21-P26 F

DNA activates the Nse2/Mms21 SUMO E3 ligase in the Smc5/6 complex

Lascorz, Jara; Varejão, Nathalia; Ibars, Eva; Colomina, Neus; Torres-Rosell, Jordi; Reverter, David

G09-22-P27 F

Structural and functional studies of Salmonella phage epsilon15 tailspike

Seoane Blanco, Mateo; Castro Laguna, Mara; Van Raaij, Mark J.

G09-23-P28

High-throughput screening identifies novel small molecule inhibitors of the Helicobacter pylori essential response regulator HsrA

Casado, Javier; Sáenz de Buruaga, Beatriz; Salillas, Sandra; Velázquez-Campoy, Adrián; Sancho, Javier; Lanás, Ángel; González, Andrés

G09-24-P29 F

Concurrent Atomic Force Spectroscopy

Suay-Corredera, Carmen; Pimenta-Lopes, Carolina; Velázquez-Carreras, Diana; Sánchez-Ortiz, David; Alegre-Cebollada, Jorge

G09-25-P30 M

Cryo-EM of the R2TP co-chaperone complex reveals a mechanism regulating the AAA-ATPases RUVBL1-RUVBL2

Muñoz-Hernández, Hugo; Llorca, Oscar

G09-26-P31

Molecular dynamics simulations of the triokinase/FMN cyclase active site reveal near-attack conformations for the ATP-dependent phosphorylation of dihydroxyacetone

Cameselle, José Carlos; Rodrigues, Joaquim Rui; Cabezas, Alicia; Ribeiro, João Meireles

G09-27-P32 F,M

Protein scaffolds in endosomal cargo retrieval

Lopez-Robles, Carlos; Rojas, Adriana; Romano-Moreno, Miguel; Baños-Mateos, Soledad; Romero, Miguel; Fernandez-Recio, Juan; Hierro, Aitor

G09-28-P33 F,M

Conformational and molecular recognition properties of doubly monoubiquitinated p15PAF

Gonzalez, Amaia; Ibañez de Opakua, Alain; Merino, Nekane; Monteiro, Hugo; Diercks, Tammo; Murciano, Javier; Luque, Irene; Bernadó, Pau; Cordeiro, Tiago N.; De Biasio, Alfredo; Blanco, Francisco J.

G09-29-P34

Role of alpha-Synuclein regions in amyloid fibrillation kinetics and fibres morphology

Sot, Begoña; Gallardo, Jose; Escalona, Carmen

G09-30-P35

Identification of residues important for cytodherence and motility in the main adhesin P110 of *Mycoplasma genitalium*

Marcos-Silva, Marina; Torres-Puig, Sergi; Ratera, Mercè; Sánchez-Alba, Lucía; Vizárraga, David; Querol, Enrique; Piñol, Jaume; Pich, Oscar Q.; Fita, Ignacio; Aparicio, David

G09-31-P36

Molecular Bases for the Unveiling of the Cryptic NES in TIA-1

Rodríguez-González, Inés; M. García-Mauriño, Sofia; Díaz-Quintana, Antonio; De la Rosa, Miguel A.; Díaz-Moreno, Irene

G09-32-P37

Biological activities of Ageritin, a ribotoxin from poplar mushroom (*Agrocybe aegerita*)

Iglesias, Rosario; Citores, Lucia; Ferreras, Jose Miguel; Ragucci, Sara; Di Maro, Antimo

G09-33-P38

Toxin ζ regulates the ATP, GTP and the uridine diphosphate N-acetylglucosamine pools to cope with stress and inhibits bacterial persistence

Moreno-del Álamo, María; Tabone, Mariangela; Lioy, Virginia S.; Alonso, Juan Carlos

G09-34-P39

Ribotoxins as antifungal agents

Citores, Lucia; Iglesias, Rosario; Ferreras, Jose Miguel; Ragucci, Sara; Di Maro, Antimo

G09-35-P40

XALOC, the MX beamline at ALBA synchrotron: Current status and perspectives

Gil-Ortiz, Fernando; Carpena, Xavier; Calisto, Barbara; González, Nahikari; Andreu, Jordi; Valcarcer, Ricardo; Ávila, Jose; Villanueva, Jorge; Juanhuix, Judith; Boer, Roeland

G09-36-P41

Single Molecule-Force Spectroscopy for Monitoring the Structural Changes of alpha-synuclein Induced by Ligands Binding

Corti, Roberta; Cassina, Valeria; Marrano, Claudia A; Salerno, Domenico; Natalello, Antonino; Santambrogio, Carlo; Brocca, Stefania; Grandori, Rita; Mantegazza, Francesco

G09-37-P42

Structural analysis of the binding mode of choline-o-sulfatase provides essential clues on the substrate promiscuity of the phosphatase superfamily

Camara-Artigas, Ana; Bacarizo, Julio; Torres de Pinedo, Jesus; Sanchez-Medina, Pilar; Ortega-Sanchez, Esperanza; Neira, Jose Luis; Gavira, Jose Antonio; **Martinez-Rodriguez, Sergio**

G09-38-P43 F

Insights into the mechanism of signalling in the Rcs system

Huesa, Juanjo; Pucciarelli, Graciela; Giner-Lamia, Joaquín; García-del Portillo, Francisco; Marina, Alberto; Casino, Patricia

G09-39-P44

Biochemical and structural insights of membrane protein insertion and folding in bacteria: The holo-translocon

Alvira, Sara; Komar, Joanna; Martin, Remy; Troman, Lucy; Corey, Robin; Berger, Imre; Dafforn, Tim; Schaffitzel, Christiane; Collinson, Ian

G09-40-P45 F,M

Ornithine decarboxylase and its paralogues from *Xenopus laevis*: functional and degradative aspects

Lambertos, Ana; Cerezo, David; Ramos-Molina, Bruno; Peñafiel, Rafael

G09-41-P46

Archaeal Like-Sm proteins: Computational analysis and functional modelling

Payá, Gloria; Peris-Cuesta, Arnau; Bautista, Vanesa; Camacho, Mónica; Esclapez, Julia; Bonete, María José

G09-42-P47 F,M

The RUVBL1-RUVBL2 complex regulates the assembly of ribonucleoproteins

Serna Gil, Marina; López-Perrote, Andrés; Rivera-Calzada, Ángel; Fernández-Leiro, Rafael; Llorca, Óscar

G09-43-P48

CryoEM structure of the bifunctional entry-point catalyst for ornithine/arginine/urea and proline biosynthesis, pyrroline-5-carboxylate synthetase (P5CS): implications for human genetic pathology

Marco-Marín, Clara; Llácer, José Luis; Escamilla-Honrubia, Juan Manuel; Rubio, Vicente

G09-44-P49

Non-canonical G-protein activation in the antagonist-bound state of the GPCR rhodopsin by releasing critical structural constraints

Garriga, Pere; Razzagui, Neda; Ramon, Eva; Morillo, Margarita; Jimenez-Roses, Mireia; Cordomi, Arnau; Alexiev, Ulrike

G09-45-P50 F

Biochemical and structural characterization of a complex involved in chaperone-assisted UPS degradation

Maestro-López, Moisés; Cuéllar, Jorge; Valpuesta, José María

G09-46-P51 F

Structural characterization of tyrosine hydroxylase

Bueno-Carrasco, M. Teresa

G09-47-P52

Interplay between eIF4G intrinsically unstructured domain and Pab1/Pub1 RRM s control the formation of protein-protein condensates

Perez-Cañadillas, Jose Manuel; Martinez-Lumbreras, Santiago; Zorrilla, Silvia; Chaves-Arquero, Belen

G09-48-P53

Cloning and structural analysis of the catalytic domain of a Metalloproteinase Type III obtained from *Bothrops atrox* ophidian venom

Vivas-Ruiz, Dan; Torrejon, Daniel; Rodriguez, Edith; Agurto, Andres; Electo, Jorge; Lazo, Fanny; Yarlequé, Armando

G09-49-P54

Structural and functional characterization of a Myotoxin isolated from *Bothrops atrox* snake venom from Peru

Torrejon, Daniel; Vivas, Dan; Proleón, Alex; Sandoval, Gustavo; Lazo, Fanny; Bautista, Lorgio

G09-50-P55

Studies of the structural and biochemical properties of a novel acidic PLA₂ isoform from *Bothrops pictus* snake venom

Seifert, Wolfram; Vivas-Ruiz, Dan; Torrejon, Daniel; Sandoval, Gustavo; Espinoza, Jordano; Cayo, Carmen; Yarleque, Armando

G09-51-P56

Purification and characterization of Pictobin, a new thrombin-like enzyme from the venom of *Bothrops pictus* Peruvian snake

Vivas-Ruiz, Dan; Zarria, Jacquelyne; Gonzalez-Koslova, Edgar; Yarleque, Armando; F. Sánchez, Eladio

G09-52-P57 F,M

Pulmosaposin B1, from the precursor of Surfactant Protein B, is structural and functionally characterized showing potential antiviral properties

Isasi, Miriam; Lasala, Fátima; Delgado, Rafael; Pérez, Jesús; García-Ortega, Lucía

G09-53-P58 F

Identification and molecular characterization of**pathogenic mutations in CAD, the multienzymatic protein leading the de novo biosynthesis of pyrimidines**

Del Caño-Ochoa, Francisco; Moreno-Morcillo, María; Ramón-Maiques, Santiago

G09-54-P59 F,M

Structure and function of WAC, a versatile adaptor protein involved in several cell processes

Del Rincón Benítez, Adrián; Serna, Marina; Lafarga, Vanesa; Pal, Mohinder; Fernandez-Capetillo, Óscar; Llorca, Óscar

G11. Molecular Mechanisms in Cell Membranes: Physiology, Pathology and Biotechnology

G11-01-OI

Permeability and lipid flow mediated by surfactant protein B: key role for surfactant function

Olmeda, Bárbara; Martinez-Calle, Marta; Pérez-Gil, Jesús

G11-02-OI

The tripartite interaction behind the metamorphosis driving a water-soluble protein into the membrane

Martínez-del-Pozo, Álvaro; Palacios-Ortega, Juan; García-Linares, Sara; Rivera-de-Torre, Esperanza; Gavilanes, José G.; Slotte, J. Peter

G11-03-OS

Mixing brain cerebroside s with brain ceramides, cholesterol and phospholipids

González-Ramírez, Emilio J; Goñi, Félix M.; Alonso, Alicia

G11-04-OS

Membrane accommodation surfaces modulate the biological function of anti-HIV antibodies through semi-specific interactions

Nieva, José L; Apellaniz, Beatriz; Caaveiro, José MM; Caravilla, Pablo; García-Vesga, Arturo; Insausti, Sara; Largo, Eneko; Requejo-Isidro, José; Rujas, Eburne; Sánchez-Eugenia, Rubén; Torralba, Johana

G11-05-OS

Mechanisms for cell wall glucan deficiency due to abnormal sterols in yeast

Gutierrez, L. Roxana; Cortéz, Mauro J.; Hernandez, Agustin

G11-06-OS

Factors leading to deficient acyl-CoA oxidase 2 (ACOX2), an alteration which causes oxidative and endoplasmic reticulum stress in liver cells

Serrano, Maria Angeles; Alonso-Peña, Marta; Espinosa-Escudero, Ricardo A; Briz, Oscar; Herraez, Elisa; Monte, M. Jesús;

Hermanns, Heike M; Sánchez Prieto, Manuel; Berrocal, Pablo; García-Tuñón, Ignacio; Prieto, Jesus; Geier, Andreas; Garcia Marin, Jose Juan

G11-07-P60 F

Acylation of the neuronal glycine transporter GlyT2

Felipe, Raquel; López-Corcuera, Beatriz; Aragón, Carmen

G11-08-P61

Effects of fatty acid unsaturation in marine bacterial cell membranes

Varela, Yaiza; Estupiñán, Mónica; Alonso, Alicia; Goñi, Félix; Alonso, Laura

G11-09-P62

Lung collectin SP-A modulates human cathelicidin by reducing its cytotoxicity but weakens its antimicrobial activity

De Tapia, Lidia; García-Fojeda, Belén; Casals, Cristina

G11-10-P63

Cell-based bimolecular and intercellular complementation assay to identify modulators of viral membrane fusion

Mingarro, Ismael; Garcia-Murria, M^a Jesus; Exposito-Dominguez, Neus; Duarte, Gerard; Martinez-Gil, Luis

G11-11-P64

Role of LC3/GABARAP family members in cargo recognition during mitophagy

Etxaniz, Asier; Iriondo, Marina; Ballesteros, Uxue; Varela, Yaiza; Montes, Ruth; Goñi, Felix; Alonso, Alicia

G11-12-P65

Homogeneous and Heterogeneous Bilayers of Ternary Lipid Compositions Containing Equimolar Ceramide and Cholesterol

Goñi, Felix M.; Gonzalez-Ramirez, Emilio J; Artetxe, Ibai; Garcia-Arribas, Aritz; Alonso, Alicia

G11-13-P66

Pulmonary surfactant as a shuttle for drug delivery to the lungs

García-Mouton, Cristina; Cruz, Antonio; Pérez-Gil, Jesús

G15. Free Radicals and Oxidative Stress

G15-01-OI

Regulation of uncoupling protein UCP3 expression by oxidative stress and its role in cardioprotection

Cadenas, Susana

G15-02-OI

Defects of Coenzyme Q biosynthesis in mitochondrial pathology

Brea-Calvo, Gloria

G15-03-OS

La NADPH oxidasa 5 endotelial induce la disfunción de la barrera hematoencefálica y la pérdida de memoria en ratones envejecidos

Cortés, Adriana; Solas, Maite; Pejenaute, Alvaro; Aymerich, María S.; Martínez-Irujo, Juan José; De Miguel, Carlos; Ramírez, María J.; Zalba, Guillermo

G15-04-OS M

NADPH oxidases and Warburg effect in Chronic Myeloid Leukemia: a history of metabolic addiction

Romo-González, Marta; Gomez de Cedron, Marta; Ijurko, Carla; Hernández-Hernández, Ángel

G15-05-OS

Unexpected mitochondrial Na⁺ and Ca²⁺ movements control mitochondrial redox signalling in acute hypoxia

Choya-Foces, Carmen; Hernansanz-Agustín, Pablo; Enríquez, José Antonio; Martínez-Ruiz, Antonio

G15-06-OS

Beneficial effects of the regulation of microRNAs by dimethyl fumarate via NRF2 in tauopathies

Lastres-Becker, Isabel

G15-07-OS M

Role of mitochondria in atypical antipsychotics induced cardiovascular disorders

Patel, Gaurang Kumar; Yildiz, Ramazan; García-Villalón, Angel Luís; Granada, Miriam; Monsalve, María

G15-08-P67 F,M

Metabolic adaptations in spontaneously immortalized PGC-1 α knock-out mouse embryonic fibroblasts increase their oncogenic potential

Monsalve, María; Prieto, Ignacio; Rubio, Carmen; García, Raquel; Berdún, Rebeca; Portero, Manuel; Pamplona, Reinald; Martínez-Ruiz, Antonio; Ruiz-Sanz, José Ignacio; Ruiz-Larrea, M. Begoña; Jove, Mariona; Cerdán, Sebastián

G15-09-P68

The iSGLT2 empagliflozin ameliorates the inflammatory profile of type 2 diabetic patients by promoting an antioxidant response in leukocytes

Iannantuoni, Francesca; Martínez de Marañón, Aranzazu; Abad-Jiménez, Zaida; Falcon, Rosa; Diaz, Pedro; Lopez-Domenech, Sandra; Bañuls, Celia; Rocha, Milagros; Rovira-Llopis, Susana; Victor, Victor M.

G15-10-P69

Different mechanisms of redox counterbalance by esculetin or quercetin in NB4 human leukemia cellsRubio, Virginia; García-Pérez, Ana I.; Herráez, Angel; Tejedor, M. Cristina; **Diez, José C.**

G15-11-P70 F,M

Function of Peroxiredoxin 6 in regulation of cellular metabolism in hepatocarcinoma cell line under endogenous nitric oxide signaling

Lagal, Daniel José López-Grueso, Maria José; Tarradas, Rosa; Requejo-Aguilar, Raquel; Carmona, Beatriz; Peinado, José; Bárcena, J. Antonio; Padilla, C. Alicia

G15-12-P71

El consumo de agua filtrada ALKANATUR mejora la evolución de tumores primarios y metastáticos inducidos mediante inoculación de células de melanoma B16-V5 en ratones

García, Raquel; Monsalve, María

G15-13-P72

SGAs induce mitochondrial dysfunction in vascular endothelial cells

Doblado, Laura; García, Aitana; Monsalve, María; Patel, Gangkumar; Selinger, Leticia

G15-14-P73

Mechanisms of action of antipsychotic drugs Aripiprazole and Olanzapine on mitochondrial dynamics in liver cells

García, Aitana; Monsalve, María; Doblado, Laura; Kramar, Barbara

G15-15-P74 F,M

G6PD overexpression protects from oxidative stress and ameliorates ARHL progression

Bermúdez Muñoz, Jose María; Celaya, Adelaida; Hijazo Pechero, Sara; Serrano, Manuel; Varela Nieto, Isabel

G15-16-P75

Genetic inactivation of pro-glycolytic enzyme PFKFB3 in astrocytes as a tool to investigate neuronal function

A. Batan, Paula; Carmeliet, Peter; Almeida, Angeles; Bolanos, Juan P.

G15-17-P76

Enhanced immune cell production of oxylipins by acute exercise in metabolic syndrome patients is avoided by nitrate supplementation

Pons, Antoni; Capo, Xavier; Olek, Robert; Salaberry, Eduardo; Suau, Rafael; Mari, Bartolome; Ferrer, Miguel; Sureda, Antoni; Tur, Josep A

G15-18-P77

A Mediterranean Diet nutritional intervention reduces plasma inflammatory markers and the production of reactive oxygen species by immune cells

Sureda, Antoni; Monserrat, Margalida; Capó, Xavier; Busquets-Cortés, Carla; Bouzas, Cristina; Mascaró, Catalina M.; Mateos, David; Angullo, Escarlata; Pons, Antoni; Tur, Josep A

G15-19-P78

Effects of beer active compounds on cellular proliferation and oxidative stress in SW620 metastatic human colon cancer cell lineSastre-Serra, Jorge; Martinez-Vigara, Maria; Alorda-Clara, Mari-na; Roca, Pilar; Pons, Daniel G; **Oliver, Jordi**

G15-20-P79 M

Oxidative stress parameters in erythrocytes of juvenile loggerhead turtles of the Colombian Caribbean: preliminary study

Hernández-Fernández, Javier; Rodriguez, Pilar; Lopez, Ellie Anne

G15-21-P80 F,M

Effects of different tissue plasminogen activators on the oxidative stress response and neuronal damage, after ischemia-reperfusion injury

Gomez-Vicente, Beatriz; Agulla, Jesus; Arenillas, Juan Francisco

G15-22-P81 F,M

Catalase S-Nitrosylation is increased in obese children with insulin resistance

González, Álvaro; Visiedo, Francisco Manuel; Ruiz, Pablo; Ruiz-Mateos, Beatriz; Linares, Miriam; Lechuga, Alfonso María; Mateos, Rosa María

G16. Gene Expression Regulation and Genome Dynamics

G16-01-OI

Modelling the pathological long-range regulatory effects of human structural variation with patient-specific hiPSCs

Rada Iglesias, Alvaro

G16-02-OI

Deciphering the SECRET(ome)S of cell communication during cancer progression

Torrano, Verónica

G16-03-OS

TLS priming: a novel strategy of DNA damage tolerance by PrimPol

Díaz-Talavera, Alberto; Villadangos-Redondo, Sabina; Guerra, Susana; Martínez-Jiménez, María Isabel; Blanco, Luis

G16-04-OS M

A novel role for POLO kinase in the establishment of the non-random inheritance pattern of the spindle pole bodies in *Saccharomyces cerevisiae*

Matellán, Laura; Manzano-López, Javier; Monje-Casas, Fernando

G16-05-OS

Bacillus subtilis RecA interacts with and loads RadA/Sms to promote branch migration during natural chromosomal transformation and DNA repair

Torres, Rubén; Serrano, Ester; Alonso, Juan Carlos

G16-06-OS M

Distal gene regulation by CD69 dual enhancer-promoter regulatory element CNS2

Redondo Antón, Jennifer; Gómez Fontela, Miguel; Notario Muñoz, Laura; Vicente García, Cristina; Carvajal, Jaime; Lauzurica Gómez, Pilar

G16-07-OS

Ixr1 is an intrinsically disordered protein of prion-prone nature

Vizoso-Vázquez, Angel; Lamas-Maceiras, Mónica; Cerdán, María Esperanza

G16-08-P82 F

Analysis of the defects associated with an increase in the Aurora B activity during mitosis

Álvarez-Llamas, Alejandra; Muñoz-Barrera, Marta; Monje-Casas, Fernando

G16-09-P83

Liquid biopsy as the future approach for colorectal cancer screening: discovery of novel non-invasive DNA methylation biomarkers in serum

Gallardo-Gómez, María; Planell, Núria; Moran, Sebastian; Páez de la Cadena Tortosa, María; Rodríguez-Berrocal, Francisco Javier; Labarga, Alberto; Esteller, Manel; Cubiella, Joaquín; Bujaña, Luis; Castells, Antoni; Balaguer, Francesc; Jover, Rodrigo; Gómez-Cabrero, David; De Chiara, Loretta

G16-10-P84 F,M

Meiotic recombination variability in male mice: genetic and environmental effects

De la Casa Esperon, Elena; San Martin Perez, Estefania; Belmonte Tebar, Angela

G16-11-P85

Analysis of the methylator phenotype of SHOX2 gene in tumor and serum samples from patients with colorectal cancer

Rafael Vidal, Carlos; Panebianco, Antonella; Páez de la Cadena,

María; Rodríguez-Berrocal, Francisco Javier; Gallardo-Gómez, María; De Chiara, Loretta

G16-12-P86 F

Functional characterization of the non-canonical RNA-binding domain of Gemin5

Embarc-Buh, Azman; Francisco-Velilla, Rosario; Gómez-Calvo, Francisco; Martínez-Salas, Encarnación

G16-13-P87 F

Processing of early recombination intermediates by the structure-selective endonucleases Yen1 and Mus81

Carreira, Raquel; Aguado, Francisco Javier; Sebesta, Marek; Krejci, Lumir; Blanco, Miguel

G16-14-P88 F

Elucidating the function of RecD2 in homologous recombination

Ramos, Cristina; Lopez, María; Ayora, Silvia

G16-15-P89

Clarifying the regulatory landscape of CD69 promoter transcription driven by the CNS2 enhancer

Gomez, Miguel; Redondo, Jennifer; Torres, Raul; Rodriguez, Sandra; Lauzurica, Pilar

G16-16-P90

Towards the identification of horizontal gene transfer machinery in the human pathogen *Mycoplasma genitalium*

Sánchez-Alba, Lucía; Torres-Puig, Sergi; Martínez-Torró, Carlos; Marcos-Silva, Marina; Fernández-Huerta, Miguel; Espasa, Mateu; Querol, Enrique; Q. Pitch, Oscar; Piñol, Jaume

G16-17-P91 F,M

Atomic force microscopy shows that periodic AU-tracts soften the elastic response of double-stranded RNA

Marin-Baquero, Mikel; Marin-Gonzalez, Alberto; Martín-Gonzalez, Alejandro; Vilhena, J.G.; Perez, Ruben; Aicart-Ramos, Clara; Moreno-Herrero, Fernando

G16-18-P92

Effects of perinatal exposure to bisphenol A on the intraprostatic levels of 5 α -reductase isozymes in juvenile rats

Torres, Jesús M.; Castro, Beatriz; Sánchez, Pilar; Martínez, Sergio; Ortega, Esperanza

G16-19-P93

Yen1 regulation prevents the premature cleavage of DNA replication and recombination intermediates

Lama, Tomás; Hurtado, Vanesa; Alonso, Paula; González, Miguel

G16-20-P94 F

Human PrimPol primase activity is regulated by both PolDIP2 and mtSSB

Velázquez-Ruiz, Cristina; Kasho, Kazutoshi; Blanco, Luis; Wanrooij, Sjoerd; Martínez-Jiménez, María Isabel

G16-21-P95 F,M

Control over RNA polymerase I-dependent transcription in asymmetric cell division

Barba-Aliaga, Marina; Mena, Adriana; García-Martínez, José; Alonso-Monge, Rebeca; Chávez, Sebastián; Pérez-Ortín, José Enrique

G16-22-P96

Unexpected Functions of WRN Syndrome Protein in mRNA Metabolism and Translation

Iglesias Pedraz, Juan Manuel; Valle-Riestra Felice, Valeria del Carmen; Cruz Visalaya, Sergio Rafael; Fossatti Jara, Diego Matia; Ayala Felix, Jose Antonio

G16-23-P97

Study of the physical and functional interaction between Mog1 and histones

Serrano Martín, María Dolores; Serrano Quílez, Joan; Rodríguez Navarro, Susana

G16-24-P98

Effects of Eny2 deletion during neural development in PC12 cells

Martinez Gomez, Jesus; Franco Rivadeneira, Maria Luisa; Vilar Cervero, Marçal; Rodríguez Navarro, Susana

G17. Metabolic Regulation and Nutrition

G17-01-OI

MicroRNAs in metabolic diseases, exogenous miRNAs and gut microbiota

Milagro, Fermin I

G17-02-OI

Pathological mechanisms in obesity: a tale of two fats

Alcalá, Martín; Calderón-Dominguez, María; Herrero, Laura; Serra, Dolors; Ramos, María del Pilar; Viana, Marta

G17-03-OS M

Myeloid p38MAPKs as key mediators of BAT thermogenic function and protection against obesity

Crespo, Maria; Nikolic, Ivana; Mora, Alfonso; Pintor, Aránzazu; Rodríguez, Maria Elena; Leiva-Vega, Luis; Leiva, Magdalena; Sabio, Guadalupe

G17-04-OS M

Carnitine palmitoyltransferase 1 deletion in AgRP neurons increases energy expenditure by enhancing brown adipose tissue activity

Zagmutt, Sebastián; Lleida, Irene; Gonzalez-García, Ismael; Mera, Paula; Ibeas, Kevin; Soler-Vázquez, M Carmen; Bastías-Perez, Marianela; Melendo, Marina; Casals, Nuria; Lopez, Miguel; Herrero, Laura; Serra, Dolors

G17-05-OS

Autologous fecal transplantation potentiates caloric restriction effects on body weight and adiposity by decreasing energy efficiency and by increasing adipose tissue lipolysis in high-fat fed mice

Pérez-Matute, Patricia; Íñiguez, María; De Toro, María; Recio-Fernández, Emma; Rego, Alejandro; Villoslada-Blanco, Pablo; Oteo, José A.

G17-06-OS

Neonatal Resveratrol and Nicotinamide Riboside Supplementations Sex-dependently Affect Beige Transcriptional Programming of Preadipocytes in Mouse Adipose Tissue towards Beige Adipogenesis

Rodríguez, Ana M.; Asnani-Kishnani, Madhu; Serrano, Alba; Palou, Andreu; Bonet, M. Luis; Ribot, Joan

G17-07-OS

Regulation of mitochondrial plasticity by Mfn2 drives metabolic flexibility

Sebastian, David; Zorzano, Antonio

G17-08-P99

Cocoa-rich diet ameliorates renal damage by contributing to the restoration of the glucose homeostasis in Zucker Diabetic Fatty rats

Ramos, Sonia; Álvarez-Cilleros, David; López-Oliva, María Elvira; Goya, Luis; Martín, María Ángeles

G17-09-P100

Protein Hydrolysates from Fenugreek (Trigonella foenum graecum) as Nutraceutical Molecules in Colon Cancer TreatmentAllaoui, Amine; Gascon, Sonia; Benomar, Souhila; Quero, Javier; Osada, Jesús; Nasri, Moncef; Rodriguez-Yoldi, M^a Jesús; Boualga, Ahmed

G17-10-P101 F,M

Cocoa rich diet modulates gut microbiota in Zucker diabetic fatty rats

Álvarez-Cilleros, David; Ramos, Sonia; López-Oliva, María Elvira; Escrivá, Fernando; Álvarez, Carmen; Fernández-Millán, Elisa; Martín, María Ángeles

G17-11-P102

miR-1185-1 and miR-548q regulate GSK3B expression and may mediate the response to weight loss

Garcia-Lacarte, Marcos; Zulet, Maria Angeles; Martinez, J. Alfredo; Milagro, Fermin I.

G17-12-P103 F

The metabolic and transcriptional regulatory functions of the N-acetylglucosamine kinase from *Yarrowia lipolytica* can be separated

Flores, Carmen-Lisset; Gancedo, Carlos

G17-13-P104 F

Differential expression of bitter taste receptors in animal species used as human models

Pinent, Montserrat; Pérez, Judit; Grau, Carme; Miguens, Alba; Sierra, Marta; González, Carlos; Beltran, Raul; Terra, Ximena; Blay, Mayte; Ardévol, Anna

G17-14-P105 F

The role of carnitine palmitoyltransferase 1A in the regulation of energy homeostasis in the ventromedial hypothalamus

Ibeas, Kevin; Mera, Paula; Zagmutt, Sebastián; Soler-Vázquez, M Carmen; Bastías-Pérez, Marianela; García, Roberto; Malamouli, Melpomeni; Melendo, Marina; Herrero, Laura; Serra, Dolors

G17-15-P106 F,M

Validation of a method to generate a transplantable brown adipose tissue to treat obesity

Soler-Vazquez, M Carmen; Delgado, Katia; Calatayud, Carles; Mera, Paula; Bastías-Pérez, Marianela; Zagmutt, Sebastián; Ibeas, Kevin; Casals, Núria; Consiglio, Antonella; Serra, Dolors; Herrero, Laura

G17-16-P107

Spray-dried animal plasma supplementation improve protection from vaccination in senescent mice

Miró, Lluïsa; Garcia-Just, Alba; Polo, Javier; Amat, Concepció; Moretó, Miquel; Pérez-Bosque, Anna

G17-17-P108 F,M

Is pleiotrophin a regulating factor of liver metabolism?

Zapatería, Begoña; Sánchez, María Gracia; Sevillano, Julio; Herradón, Gonzalo; Ramos, María del Pilar

G17-18-P109 F,M

Role of endothelial expression of Nox5 in a mouse obesity model induced by high-fat diet

Garcia, Jorge; Du, Juan; Pejenaute, Álvaro; Zalba, Guillermo; Ansorena, Eduardo; Milagro, Fermín; De Miguel, Carlos

G17-19-P110

AgRP neurons require CPT1A to regulate endu-**rance, muscle mass and strength**

Mera, Paula; Zagmutt, Sebastián; Insuasti, Lenin; Ibeas, Kevin; Soler-Vázquez, M Carmen; Bastías-Pérez, Marianela; Melendo, Marina; Herrero, Laura; Serra, Dolors

G17-20-P111

Effect of ovariectomy on mitochondrial respiratory capacity in adipose tissue of ZDF female ratsMartínez-Cignoni, Melanie Raquel; González-Vicens, Agustí; Lladó, Isabel; Gianotti, Magdalena; Proenza, Ana M^a; Valle, Adamo

G17-21-P112

Effects of estrogens on glycemia and cardiac fuel homeostasis in female diabetic obese rats

González-Vicens, Agustí; Martínez-Cignoni, Melanie Raquel; Valle, Adamo; Lladó, Isabel; Gianotti, Magdalena; Proenza, Ana María

G17-22-P113

Involvement of estrogens on white adipose tissue fibrosis in diabetic obese female rats

Martínez-Cignoni, Melanie Raquel; González-Vicens, Agustí; Valle, Adamo; Proenza, Ana María; Lladó, Isabel; Gianotti, Magdalena

G17-23-P114 F

AAV9-mediated enhanced fatty-acid oxidation reverses obesity-induced hepatic steatosis

Serra, Dolors; Weber, Minéia; Mera, Paula; Casas, Josefina; Salvador, Javier; Rodríguez, Amaia; Sebastián, David; Fucho, Raquel; Calderón-Domínguez, María; Mir, Joan Frances; Bartrons, Ramon; Escolà-Gil, Joan Carles; Zorzano, Antonio; Llorente, Vicenta; Casals, Nuria; Valenti, Victor; Fruhbeck, Gema; Herrero, Laura

G17-24-P115

17beta-estradiol modulates the development of obesity-linked inflammation of adipose tissue in an animal model of type 2 diabetes

Martínez-Cignoni, Melanie Raquel; González-Vicens, Agustí; Valle, Adamo; Proenza, Ana Maria; Gianotti, Magdalena; Lladó, Isabel

G17-25-P116 F,M

Polyamine deprivation therapy induces a metabolic switch that confers a survival advantage to prostate cancer cells

Pujana Vaquerizo, Mikel; Zabala Letona, Amaia; Martin Martin, Natalia; Carrecedo Pérez, Arkaitz

G17-26-P117

Study of the inflammatory state in tumor tissue of colorectal patients depending on the stage

Alorda-Clara, Marina; Pons, Daniel G; Sastre-Serra, Jorge; Gaya-Bover, Auba; Oliver, Jordi; Roca, Pilar

G17-27-P118

Glucose-dependent phospho-regulation of the

mitochondrial protein SLC25A46 in pancreatic beta-cells

Santo-Domingo, Jaime; Lassueur, Steve; Nuñez GalindoNNE, Proteomics; Dyon, Loic; Wiederkehr, Andreas

G17-28-P119 F

Differential regulation of liver mitochondrial dynamics by caloric restriction and CYB5R3 overexpression in transgenic mice

Rodríguez-López, Sandra; Sabariego-Menjíbar, Elena; De Cabo, Rafael; Villalba, José Manuel

G17-29-P120

Depletion of the APC/C cofactor Cdh1 in mature adipocytes protects against diet-induced obesity

García-Higuera, Irene; Rodríguez, Rubén; Moreno, Sergio

G17-30-P121 F

Alterations of mitochondrial metabolism markers by calorie restriction and CYB5R3 overexpression in skeletal muscle of transgenic mice

López Bellón, Sara; Rodríguez López, Sandra; Sabariego Menjíbar, Elena; De Cabo, Rafael; Burón, María Isabel; Villalba, José Manuel

G17-31-P122 F

Intraepithelial lymphocytes isolated from mice fed with spray-dried plasma improve intestinal barrier properties in a co-culture model

Rosell-Cardona, Cristina; Miró, Lluís; Polo, Javier; Amat, Concepció; Moretó, Miquel; Pérez-Bosque, Anna

G17-32-P123 F,M

p107, a new regulator of brown fat thermogenic activity and white adipose tissue browning

Cuñarro, Juan; Buque, Xabier; Casado-Masa, Sabela; Lugalde, Javier; Vidal, Anxo; Mora, Alfonso; Sabio, Guadalupe; Nogueiras, Rubén; Diéguez, Carlos; Aspichueta, Patricia; Tovar, Sulay

G17-33-P124

Decreased concentration of individual fatty acids in maternal and cord serum of gestational diabetic pregnant women with satisfactory glycemic control

Ortega-Senovilla, Henar; Schaefer-Graf, Ute; Herrera, Emilio

G17-34-P125 F

Role of TIGAR in lymphocyte activation and proliferation

Manzano, Anna; Simon, Helga; Caldera, Irene; Arnedo-Pac, Claudia; Cano, Eva; Vallvé, Xavier; Fontova, Pere; Vidal, Anna; Lloberas, Núria; Castaño, Esther; Navarro-Sabaté, Aurea; Bartrons, Ramon

G17-35-P126 F,M

Nrf2 regulates the expression of the TP53-

Induced Glycolysis and Apoptosis Regulator in cancer cells

Simon-Molas, Helga; Fernández, Mikel; Castaño, Esther; Navarro-Sabaté, Aurea; Bartrons, Ramon; Manzano, Anna

G18. Cellular Signalling

G18-01-OI

Resistance to MAPK inhibitors in melanoma involves activation of the IGF-1R-MEK5-Erk5 pathway

Benito-Jardón, Lucía; Díaz-Martínez, Marta; Arellano-Sánchez, Nohemi; Vaquero-Morales, Paloma; Esparís-Ogando, Azucena; Teixidó, Joaquín

G18-02-OI

OxLDL-CD69 signaling pathway in lymphocytes protects from atherosclerosis and predicts sub-clinical disease

Blanco-Domínguez, Rafael; Sánchez-Díaz, Raquel; De la Fuente, Hortensia; Tsilingiri, Katerina; Rodríguez, Cristina; Relano, Marta; Jiménez-Alejandro, Rosa; Hernández-García, Elena; García-Guimaraes, Marcos M.; Ibáñez, Borja; Fuster, Valentín; Alfonso, Fernando; Sánchez-Madrid, Francisco; Martínez-González, José; Martín, Pilar

G18-03-OS M

A new non-canonical pathway of Gq regulates mitochondrial motility

Izquierdo, Ismael; Mirra, Serena; Parcerisas, Antoni; Herrero, Marina; Benincá, Cristiane; Rebollo, Elena; Soriano, Eduardo; Aragay, Anna

G18-04-OS M

AMBRA1 regulates epithelial to mesenchymal transition in skin squamous cell carcinoma through TGF- β signaling pathway

Gabicagoeascoa, Estibaliz; Lorente, María del Mar; Salazar-Roa, María; Saiz-Ladera, Cristina; Salvador, Nélida; Hill, David; Berges, Natalia; Orea-Soufi, Alba; García-Taboada, Elena; Santos, Andrea; Boya, Patricia; Herrera, Blanca; Sánchez-Muñoz, Arancha; Lovat, Penny; Velasco, Guillermo

G18-05-OS M

C3G in Glioblastoma: role in invasion, tumorigenesis and cell signalling

Manzano, Sara; Herranz, Oscar; Bragado, Paloma; Jauregui, Patricia; Sequera, Celia; Baquero, Cristina; Palao, Nerea; Gutierrez-Uzquiza, Alvaro; Guerrero, Carmen; Porras, Almudena

G18-06-OS

Phenotype switch driven by translation reprogramming following stress as a motor to drive cancer cell heterogeneity

Garcia Jimenez, Custodia; Goding, Colin

G18-07-OS M

The EGFR/Src pathway mediates the communication of cancer cells and their surrounding microenvironment in triple negative breast cancer

Galan, Eva M.; Nuncia-Cantarero, Miriam; Nieto-Jimenez, Cristina; Burgos-Lozano, Miguel; Montero, Juan Carlos; Pandiella, Atanasio; Ocaña, Alberto

G18-08-P127

Involvement of Ssu72 phosphatase in the synthesis of chitin

Freire-Picos, María Angeles; Mejuto González, Marta; Rodríguez-Torres, Ana María

G18-09-P128 F,M

Dual inhibition of SHP1 and SHP2 potentiates the differentiation and impairs the proliferation of acute myeloid leukemia cells

Perez-Fernandez, Alejandro; Lopez-Ruano, Guillermo; Prieto-Bermejo, Rodrigo; Ijurko, Carla; Diez-Campelo, Maria; Sanchez-Guijo, Fermin; Hernandez-Hernandez, Angel

G18-10-P129 F,M

Therapeutic targeting of HER2-CB2R heteromers in HER2-positive breast cancer

Blasco-Benito, Sandra; Moreno, Estefanía; **Seijo-Vila, Marta**; Tundidor, Isabel; Andradas, Clara; Caffarel, María; Caro-Villalobos, Miriam; Moreno-Bueno, Gema; Hernández, Lucía; Manso, Luis; Bernardó-Morales, Cristina; Arribas, Joaquín; Canals, Meritxell; Casadó, Vicent; Canela, Enric; Guzmán, Manuel; Pérez-Gómez, Eduardo; Sánchez, Cristina

G18-11-P130 F,M

Las adhesiones integrina $\alpha5\beta1$ - fibronectina durante la regeneración muscular

Ortega-Sanchís, Sheila; Gimeno-Lluch, Irene; Villarroja, Olga; Luna, Jorge; Costell, Mercedes

G18-12-P131

Lipid-mediated activation of β -catenin signaling in melanoma progression

Chocarro-Calvo, Ana; Ramírez-Sánchez, Ana; Gutiérrez-Salmerón, María; García-Martínez, Jose Manuel; Lucena, Silvia R.; Román, Jose Luis; Martin-Orozco, Rosa M.; Fiuza, Carmen; Goding, Colin R.; Garcia-Jimenez, Custodia

G18-13-P132

The Sigma 1 Receptor regulates calmodulin and HINT1 binding to the cationic TRPA1, TRPV1 and TRPM8 channels

Cortes, Elsa; Sanchez-Blazquez, Pilar; Onetti, Yara; Rodriguez-Munoz, Maria; Garzon, Javier

G18-14-P133

cis-7-Hexadecenoate-containing phosphatidylcholine reduces inflammatory responses of macrophages to bacterial lipopolysaccharide

Bermudez, Miguel Ángel; Balboa, María A.; Balsinde, Jesús

G18-15-P134 F,M

Blood-based cancer biomarkers in liquid biopsy in diabetic patients

Román, José Luis; García-Martínez, José Manuel; Martín-Orozco, Rosa M.; Chocarro-Calvo, Ana; Gutiérrez-Salmerón, María; Lucena, Silvia R.; Fiuza, M. Carmen; Ramirez-Sánchez, Ana; García-Jiménez, Custodia

G18-16-P135

Cytometric study of biomarkers of natural killer cell function in patients with Idic15 syndrome

O'Connor, José-Enrique; Jávega, Beatriz; Herrera, Guadalupe; García-Perez, Miguel-Angel; Codoñer-Franch, Pilar; Tavárez, Sandra; Orquín-González, Miguel-Angel; Alonso, Eulalia

G18-17-P136 F

Involvement of dual-specificity phosphatases in the transcriptional regulation of purinergic P2X7 receptors in neuroblastoma cells

Benito-León, María; Ortega de la O, Felipe; García Delicado, Esmerilda; Gualix, Javier; Miras Portugal, María Teresa; Gómez-Villafuertes, Rosa

G18-18-P137 F,M

Aptamers against the protein kinase VRK1 as potential diagnostic and therapeutic tools

Carrión, Rebeca; Frezza, Valerio; Salgado, Ana; Toledo-Lobo, Maria del Val; Sacristán, Silvia; Martín, Maria Elena; González, Victor

G18-19-P138 F

Implication of calcium-binding motifs of aspartate-glutamate carrier 1/ARA-LAR/Slc25a12 in the biogenesis and function of the protein

González-Moreno, Luis; Juaristi, Inés; Vázquez-Arias, David; Satrustegui, Jorgina; Del Arco, Araceli

G18-20-P139 F,M

Regulation of PMEPA1 and NKILA by in inflammation and cancer: effects on the NF κ B and TGF β pathways

Stamatakis, Konstantinos; Gomez Bris, Raquel; Fresno, Manuel

G18-21-P140

HEI-OC1 auditory cell line as a cellular model to understand hearing loss due to IGF-1 deficiency

García-Mato, Ángela; Rodríguez-de la Rosa, Lourdes; Cervantes, Blanca; Varela-Nieto, Isabel

G18-22-P141 F

Cardiac fibroblasts have different mechanisms to respond to stress conditions compared to fibroblasts from other origins

Bea, Aida; Bares, Gisel; Martinez, Marta; Vila, Miquel; Camara, Yolanda; Giron, Cristina; Comella, Joan; Llovera, Marta; Sanchis, Daniel

G18-23-P142

Long non-coding Nr6a1 is involved in cell migration and mitochondrial function

Polo-Generelo, Salvador; Torres, Belen; Pintor-Toro, Jose A

G18-24-P143 F,M

PRASI peptide inhibits tumor migration through RAC1 SUMOylation

García-Casas, Ana; García-Frontini, Celeste; López-Palomar, Lucía; Castillo-Lluva, Sonia

G18-25-P144 F,M

Pharmacologic and genetic (CRISPR/Cas9) evidences showing that ERK5 kinase activity mediates in EGF-induced proliferation in cancer cells

Espinosa-Gil, Sergio; Diéguez-Martínez, Nora; Gámez, Andrés; Megías-Roda, Elisabet; Piedrafita, Lidia; Domingo, Inés; Yoldi, Guillermo; Muñoz-Guardiola, Pau; Bayascas, Jose Ramon; Lizcano, Jose M

G18-26-P145 F

EndoG regulates cell proliferation through a ROS dependent mechanism

Bares, Gisel; Blasco, Natividad; Bea, Aida; Giron, Cristina; Llovera, Marta; Sanchis, Daniel

G18-27-P146 F

GRK2-dependent HuR phosphorylation regulates HIF expression and the hypoxic response

Penela, Petronila; Reglero, Clara; Lafarga, Vanesa; Albri-te, Ángela; Ramos, Paula; Rivas, Verónica; Berciano, Susana; Martinez-Chantar, Maria L.; Mayor, Federico

G18-28-P147 F,M

Genetic dissection of the functional relevance of eukaryotic protein phosphorylation

Vieitez, Cristina; Busby, Bede; Ochoa, David; Gallardini, Marco; Jawed, Areeb; Typas, Nassos; Beltrao, Pedro

G18-29-P148

Signaling pathways and metabolic profile of alveolar macrophages upon activation with IL-4 and/or surfactant protein SP-A

Garcia-Fojeda, Belen; Minutti, Carlos M.; Montero-Fernández, Carlos; Casals, Cristina

G18-30-P149 F

A cell-penetrating peptide based on connexin43 modifies astrocytic STAT3 activation in glioma

García-Vicente, Laura; Jaraíz-Rodríguez, Myriam; Pelaz, Sara G; Medina, Jose M; Tabernero, Arantxa

G18-31-P150

Role of GRK2 in the response of Head and Neck Squamous Cell Carcinoma cells to chemotherapeutic drugs

Sanz, Maria; Garcia, Lara; Asensio, Alejandro; Palacios, Julia; Garcia, Ramón; Mayor Jr, Federico; Ribas, Catalina

G18-32-P151 F,M

Deeping in the antitumoral action mechanism of an aptamer against the protein kinase MNK1b

Ferreras Martín, Raquel; Pinto Díez, Celia; Carrión Marchante, Rebeca; Pérez Morgado, María Isabel; García Hernández, Marta; González, Victor M.; Martín, María Elena

G18-33-P152 F

AMPK-P300 activation by reactive oxygen species promotes proliferation in gastrointestinal cancer cells

Gutiérrez-Salmerón, María; García-Martínez, José Manuel; Lucena, Silvia R.; Martín-Orozco, Rosa M.; Román, José Luis; Ramírez, Ana; De la Vieja, Antonio; Chocarro-Calvo, Ana; García-Jiménez, Custodia

G18-34-P153

Signaling networks in IL6 expression in mouse pre-adipocytes

Diaz-Chamorro, Selene; Garrido-Jimenez, Sergio; Barrera-Lopez, Juan Francisco; Carvajal-Gonzalez, Jose Maria; Centeno, Francisco

G18-35-P154 F

Protein tyrosine phosphatases are important to regulate β -catenin stability in leukaemic cells

García-Hernández, Violeta; Pérez-Fernández, Alejandro; Hernández-Hernández, Ángel

G18-36-P155

Mechanisms underlying the positive role of GRK2 in Breast Cancer invasiveness

Neves, Maria; Nogués, Laura; Penela, Petronila; Mayor, Federico

G18-37-P156

GRK2: a new signaling hub controlling epidermal homeostasis

Asensio López, Alejandro; Sanz Flores, María; Palacios-García, Julia; Mayor Menéndez, Federico; Ribas Núñez, Catalina

G18-38-P157

Interrelation of GRK2 and tyrosine kinase ABL1 in cell cycle progression

Ortiz, Belén; Reglero, Clara; Rivas, Verónica; Lafarga, Vanesa; Mayor, Federico; Penela, Petronila

G18-39-P158 F,M

Molecular mechanisms of INPP5E-dependent cilia disassembly

Sierra-Rodero, Maria Belen; Cilleros, Dario; **Garcia-Gonzalo, Francesc R**

G18-40-P159 F,M

A new Gq interactome involved in the modulation of oxidative stress

Caballero, Álvaro; Ortega, Alba; Mayor, Federico; Ribas, Catalina

G18-41-P160

Characterization of Notch signaling in pro-inflammatory TLR activated macrophages

López, Susana; Romero de Ávila, María José; Monsalve, Eva María; García, José Javier; Balandrón, Victoriano; Nueda, María Luisa; Laborda, Jorge; Toribio, María Luisa; Martínez, María José

G18-42-P162

Oleanolic acid induces migration in Mv1Lu and MDA-MB-231 epithelial cells involving EGF receptor and MAP kinases activation

Stelling Férrez, Javier; Bernabé García, Ángel; Liarte, Sergio; Gabaldón, Jose Antonio; López Miranda, Santiago; Núñez Delicado, Estrella; Nicolás Villaescusa, Francisco José

G18-43-P163 F

Role of GRK2 in human and mouse arteriovenous malformations

Rivas, Verónica; Figueras, Agnes; Viñals, Francesc; Mayor, Federico; Penela, Petronila

G18-44-P164 F

Consequences of the regulation by GRK2 in DNA repair mechanisms and cellular senescence

Albitre, Ángela; Mayor, Federico; Penela, Petronila

G18-45-P165 F

Role of sodium tungstate on cell proliferation and cell cycle modulation in melanoma cells

Linares Pérez, Azahara; Vilchez Rienda, José Dámaso; Guinovart i Cirera, Joan; Girón Gonzalez, María Dolores; Salto Gonzalez, Rafael

Authors index

- Abad, Ana (G14-01-OI)
 Abad, Paloma (G14-08-P165; G14-01-OI)
 Abad González, Paloma (G02-45-P46 F)
 Abad-Jiménez, Zaida (G15-09-P68)
 Abascal, Alejandra (G02-37-P38)
 Abascal-Palacios, Guillermo (S2.2-1)
 Abaurrea, Andrea (G05-04-OS)
 Abdul-Jalbar, Beatriz (G08-10-P107)
 Abengózar, María Ángeles (G14-07-P164)
 Aburto, María R. (G03-07-OS M)
 Acebes, Ángel (G13-14-P145 F)
 Acemel, Rafael D. (G03-05-OS; G03-02-OI)
 Adamson, Antony (G13-23-P154 F,M)
 Addante, Annalisa (G02-33-P34 F)
 Aguado, Begoña (G14-05-P162)
 Aguado, Francisco Javier (G16-13-P87 F)
 Aguado, Tania (G05-12-P6; G13-06-OS)
 Aguilar González, Cristóbal Noé (G07-17-P101 F,M)
 Aguilar-Arnal, Lorena (S1.3-1)
 Aguirre-Tamaral, Adrián (G03-10-P79)
 Agulla, Jesús (G13-05-OS M; G13-20-P151 F,M; G13-21-P152 F,M; G15-21-P80 F,M)
 Agurto, Andres (G09-48-P53)
 Aicart-Ramos, Clara (G04-04-P81 F,M; G09-17-P22; G16-17-P91 F,M)
 Aisa-Marin, Izarbe (G02-55-P56 F)
 Al-Shahrou, Fátima (G02-32-P33 F,M)
 Albesa-Jove, David (G05-07-P1)
 Albillos, S.M. (G05-09-P3; G08-05-P102)
 Albitre, Ángela (G18-44-P164 F)
 Albrite, Ángela (G18-27-P146 F)
 Alcalde, Miguel (G07-11-P95; G07-12-P96; G07-13-P97 F,M; G07-14-P98; G07-06-OS)
 Alcalá, Martín (G08-15-P112 F; G17-02-OI)
 Alcón, P (G09-01-OI)
 Alegre-Cebollada, Jorge (G02-13-P14; G07-07-OS; G09-09-P14 F; G09-19-P24 F,M; G09-24-P29 F)
 Alexiev, Ulrike (G09-44-P49)
 Alfaro-Arnedo, Elvira (G02-19-P20; G02-30-P31 F)
 Alfonso, Fernando (G18-02-OI)
 Allaoui, Amine (G17-09-P100)
 Almalé, Laura (G02-33-P34 F)
 Almeida, Ángeles (G01-03-P3 M; G13-17-P148 F; G13-18-P149; G13-19-P150 F,M; G13-20-P151 F,M; G13-05-OS M; G13-21-P152 F,M; G15-16-P75)
 Alonso, Alicia (G11-08-P61; G11-11-P64; G11-03-OS; G11-12-P65)
 Alonso, Isabel (G07-08-P92)
 Alonso, Juan Carlos (G09-33-P38; G16-05-OS)
 Alonso, Laura (G11-08-P61)
 Alonso, Paula (G16-19-P93)
 Alonso, Eulalia (G18-16-P135)
 Alonso-Iglesias, Eulalia (G02-50-P51; G02-51-P52)
 Alonso-Lerma, Borja (G07-02-OI)
 Alonso-Monge, Rebeca (G16-21-P95 F,M)
 Alonso-Peña, Marta (G11-06-OS)
 Alorda-Clara, Marina (G15-19-P78; G17-26-P117)
 Altuzarra, Yanire (G02-29-P30 F,M)
 Alvarez, Beatriz (G07-04-OS M)
 Alvarez, Cármén (G17-10-P101 F,M)
 Alvarez, Ruth (G02-62-P63 F,M)
 Alvarez-Cilleros, David (G17-08-P99; G17-10-P101 F,M)
 Alvarez-Llamas, Alejandra (G16-08-P82 F)
 Alvira, Sara (G09-39-P44)
 Alza, Lía (G01-01-P1 F,M)
 Amat, Concepció (G17-16-P107; G17-31-P122 F)
 Ambrosio, Emilio (G13-15-P146)
 Amezcua, Victor (G02-74-P75)
 Amor, Ana (G02-03-OS)
 Andradas, Clara (G18-10-P129 F,M)
 Andres, German (G03-06-OS)
 Andreu, Jordi (G09-35-P40)
 Angullo, Escarlata (G15-18-P77)
 Ansorena, Eduardo (G17-18-P109 F,M)
 Anta, Héctor (PL02)
 Antón, Beatriz (G02-31-P32 F,M)
 Anton, Ines María (G02-24-P25)
 Antón, Marta Elena (G02-05-OS)
 Aparicio, David (G09-30-P35)
 Aparicio-Tejo, Pedro M^a (G12-04-OS)
 Apellaniz, Beatriz (G11-04-OS)
 Aragay, Anna (G18-03-OS M)
 Aragon, Luis (S2.1-1)
 Aragón, Cármén (G11-07-P60 F)
 Aranda, Miguel (G05-17-P11 F)
 Aranega, Amelia (G03-04-OS M)
 Araujo, Ángela (G05-04-OS)
 Arconada-Luque, Elena (G02-75-P76)
 Arcones, Alba C. (G02-56-P57 F,M)
 Ardévol, Anna (G17-13-P104 F)
 Arechavala, Pablo (G13-22-P153)
 Arellano-Sánchez, Nohemi (G18-01-OI)
 Arenillas, Juan Francisco (G15-21-P80 F,M)
 Aresté, Cristina (G02-69-P70)
 Argente, Jesús (G13-08-P139)
 Ariz, Idoia (G12-04-OS)
 Arnaiz, Ana (G06-01-OI)
 Arnedo-Pac, Claudia (G17-34-P125 F)
 Aroca, Ángeles (G06-07-P89)
 Arranz, Rocío (G09-11-P16)
 Arranz de Miguel, Alicia (G02-61-P62 F,M)
 Arredondo, Juan J. (G08-01-OI)
 Arribas, Joaquín (G18-10-P129 F,M)
 Arroyo, Alicia García (G03-09-P78 F,M)
 Arroyo-Currás, Netzahualcóyotl (G09-15-P20)
 Arsène, Sobison (G14-07-P164)
 Artetxe, Ibai (G11-12-P65)
 Artuch, Rafael (G02-18-P19 F,M; G02-71-P72)
 Asensio, Alejandro (G18-31-P150)
 Asensio, Maitane (G02-06-OS)
 Asensio López, Alejandro (G18-37-P156)
 Ashton, Antony (G13-23-P154 F,M)
 Asnani-Kishnani, Madhu (G17-06-OS)
 Aspichueta, Patricia (PL06; G02-04-OS M; G17-32-P123 F,M)
 Astobiza, Ianire (G04-08-P85 F,M; G05-16-P10 F,M)
 Astudillo, Alba (G02-67-P68 F,M)
 Atienza, Isabel (G02-68-P69 F)
 Aurrekoetxea, Igor (PL06; G02-04-OS M)
 Avila, Concepción (G06-03-OS M; G06-06-P88; G12-06-OS; G12-10-P128 F)
 Avila, Jose (G09-35-P40)
 Ayala Félix, Jose Antonio (G16-22-P96)
 Aymerich, María S. (G15-03-OS)
 Ayora, Silvia (G16-14-P88 F)
 Azevedo, Cristina (G02-68-P69 F)
 Bacarizo, Julio (G09-37-P42)
 Bahnot, Sanjay (G02-04-OS M)
 Balaguer, Francesc (G16-09-P83)
 Balandrón, Victoriano (G18-41-P160)
 Balboa, María A. (G18-14-P133)
 Ballega, Elisabet (G02-36-P37 F)
 Ballesteros, Uxue (G11-11-P64)
 Ballesteros-Yáñez, Inmaculada (G08-12-P109; G13-15-P146)
 Ballestrasse, Karina (G06-05-P87)
 Balsera, Mónica (G09-14-P19)
 Balsinde, Jesús (G02-67-P68 F,M; G18-14-P133)
 Bambini-junior, Victorio (G13-23-P154 F,M)
 Baquero, Cristina (G02-48-P49 F; G18-05-OS M)
 Barahona, Inés (G02-67-P68 F,M)
 Barandian, Leire (G07-02-OI)
 Bárány, Ivett (G06-08-P90)
 Baratas, Alejandro (G10-05-P122)
 Barba-Aliaga, Marina (G16-21-P95 F,M)
 Barbáchano, Antonio (G02-23-P24 F,M)
 Barcelona, Belén (G12-06-OS)
 Bárcena, J. Antonio (G15-11-P70 F,M)
 Barderas, Rodrigo (G10-06-P123 F)
 Bares, Gisel (G18-22-P141 F; G18-26-P145 F)
 Baris, Hagit N. (G02-47-P48)
 Barreira Barba, Bianca (G02-07-P8 F)
 Barreiro-Alonso, Aida (G02-28-P29 F; G10-04-P121 F,M)
 Barrena, Marta (G07-04-OS M)
 Barrera-López, Juan Francisco (G18-34-P153)
 Barriales-Villa, Roberto (G02-13-P14)
 Barrio, Emilia (G01-03-P3 M)
 Barrio, Lara (S3.1-2)
 Bartha Rasero, Jose Luis (G02-37-P38)
 Bartrons, Ramon (G17-23-P114 F; G17-34-P125 F; G17-35-P126 F,M)
 Barón, Matilde (G06-05-P87)
 Basler, Sophie (G05-05-OS)
 Bastías-Pérez, Marianela (G17-04-OS M; G17-14-P105 F; G17-15-P106 F,M; G17-19-P110)
 Batan, Paula A. (G15-16-P75)
 Bautista, José Manuel (G02-45-P46 F; G14-01-OI; G14-08-P165;)
 Bautista, Lorgio (G09-49-P54)
 Bautista, Vanesa (G09-41-P46; G12-01-OI; G12-16-P134; G12-17-P135; G12-18-P136; G12-20-P138)
 Bayascas, Jose Ramon (G18-25-P144 F,M)
 Bayona, María Pilar (G02-18-P19 F,M)
 Bayona-Bafaluy, Pilar (G02-15-P16 F,M)
 Baños-Mateos, Soledad (G09-27-P32 F,M)
 Bañuls, Celia (G15-09-P68)
 Bea, Aida (G18-22-P141 F; G18-26-P145 F)
 Becerro-Recio, David (G14-04-OS)
 Belandia, Borja (G02-75-P76)
 Belloc, Eulàlia (PL02)
 Belmonte, María Esther (G10-04-P121 F,M)
 Belmonte Tebar, Ángela (G16-10-P84 F,M)
 Beltran, Raul (G17-13-P104 F)
 Beltrán, Laura (G02-31-P32 F,M)
 Beltrao, Pedro (G18-28-P147 F,M)
 Beneit, Núria (G02-73-P74 F,M)
 Benincá, Cristiane (G18-03-OS M)
 Benito, Manuel (G02-73-P74 F,M)
 Benito, Marta (G07-08-P92)
 Benito Martín, Alberto (G02-03-OS)
 Benito-Jardón, Lucía (G18-01-OI)
 Benito-León, María (G13-12-P143; G18-17-

- P136 F)
- Benomar, Souhila (G17-09-P100)
- Berciano, Susana (G18-27-P146 F)
- Berdún, Rebeca (G15-08-P67 F,M)
- Berger, Imre (G09-39-P44)
- Berges, Natalia (G18-04-OS M)
- Bermudez, Miguel Ángel (G18-14-P133)
- Bermúdez Muñoz, Jose María (G15-15-P74 F,M)
- Bernabé García, Ángel (G18-42-P162)
- Bernabeu, Eric (G12-14-P132)
- Bernadó, Pau (G09-28-P33 F,M)
- Bernardó-Morales, Cristina (G18-10-P129 F,M)
- Berral, Alberto (G04-01-OI)
- Berrocal, Pablo (G11-06-OS)
- Bertram, Craig (G13-23-P154 F,M)
- Bertrand, Stephanie (G03-02-OI)
- Bes, Teresa (G12-19-P137 F)
- Betti, Marco (G12-02-OI)
- Beuron, Fabienne (S2.2-1)
- Beyaert, Rudi (S3.3-2)
- Blanco, Alfonso (G10-03-OS)
- Blanco, Carolina Pilar (G02-64-P65 F,M; G02-65-P66 F,M)
- Blanco, Francisco J. (G09-28-P33 F,M)
- Blanco, Francisco-Javier (G02-52-P53 F,M)
- Blanco, Luis (G07-15-P99 F; G16-20-P94 F; G16-03-OS)
- Blanco, María Dolores (G07-08-P92)
- Blanco, Miguel (G16-13-P87 F)
- Blanco Fernández de Valderrama, María José (G08-09-P106)
- Blanco Suárez, Víctor (G07-16-P100 F,M)
- Blanco-Domínguez, Rafael (G18-02-OI)
- Blanco-Gómez, Adrián (G02-72-P73)
- Blasco, María A. (G02-35-P36 F)
- Blasco, Natividad (G18-26-P145 F)
- Blasco-Benito, Sandra (G18-10-P129 F,M)
- Blay, Mayte (G17-13-P104 F)
- Blazquez, David (G02-49-P50 F)
- Bodoy, Susanna (G02-71-P72)
- Boer, Roeland (G09-35-P40)
- Bogdanovic, Ozren (G03-02-OI)
- Bolaños, Juan P. (G01-03-P3 M; G13-16-P147 F,M; G13-17-P148 F; G15-16-P75)
- Bonel-Pérez, Gloria Cristina (G01-06-P6 F; G01-07-P7 F)
- Bonet, M. Luisa (G08-08-P105; G17-06-OS)
- Bonete, María José (G09-41-P46; G12-01-OI; G12-16-P134; G12-17-P135; G12-18-P136; G12-20-P138)
- Bonvin, Alexandre M.J.J. (G04-07-P84 M; G08-14-P111 F)
- Bonzón-Kulichenko, Elena (G09-09-P14 F)
- Borghesan, Michela (G05-10-P4 F,M)
- Boscá Gomar, Lisardo (G02-10-P11; G02-12-P13 F,M; G02-21-P22 F)
- Bosch, Fatima (G13-07-OS M)
- Boskovic, Jaskinka (G02-03-OS)
- Boualga, Ahmed (G17-09-P100)
- Bouzas, Cristina (G15-18-P77)
- Boya, Patricia (G18-04-OS M)
- Bragado, María Julia (G10-07-P124)
- Bragado, Paloma (G02-33-P34 F; G02-48-P49 F; G02-53-P54 F,M; G02-58-P59; G05-04-OS; G18-05-OS M)
- Bravo, Inmaculada (G13-29-P160 F,M)
- Bravo, Susana B. (G01-04-P4 F,M)
- Bravo-López, Susana B. (G10-03-OS)
- Brea Contreras, Rocío (G02-10-P11)
- Brea-Calvo, Gloria (G15-02-OI)
- Brinkmann, Kay (G02-03-OS)
- Briz, Óscar (G11-06-OS)
- Brocca, Stefania (G09-36-P41)
- Bru, Samuel (G02-36-P37 F; G08-13-P110)
- Buchanan, Bob B. (G09-14-P19)
- Bueno, Santiago (G04-01-OI)
- Bueno-Carrasco, M. Teresa (G09-46-P51 F)
- Buey, Rubén M. (G09-14-P19)
- Bujanda, Luis (G16-09-P83)
- Buque, Xabier (PL06; G17-32-P123 F,M)
- Burgos, Aurora (G02-23-P24 F,M)
- Burgos-Lozano, Miguel (G18-07-OS M)
- Burguera, Demian (G03-02-OI)
- Burguete, Aroia (G14-10-P167)
- Burón, María Isabel (G17-30-P121 F)
- Busby, Bede (G18-28-P147 F,M)
- Busquets, Xavier (G08-21-P118)
- Busquets-Cortés, Carla (G15-18-P77)
- Bustamante-Madrid, Pilar (G02-23-P24 F,M)
- Busto, M.D. (G05-09-P3; G08-05-P102)
- Bustos, José (G05-11-P5)
- Caaveiro, José MM (G11-04-OS)
- Caballero, Álvaro (G18-40-P159 F,M)
- Cabello, Purificación (G12-08-P126; G12-05-OS)
- Cabezas, Alicia (G09-26-P31)
- Cáceres, Rodrigo (G07-09-P93 F,M)
- Cadenas, Susana (G15-01-OI)
- Caeiro, José R. (G10-03-OS)
- Caffarel, María (G05-04-OS; G18-10-P129 F,M)
- Calatayud, Carles (G17-15-P106 F,M)
- Calatrava, Victoria (G12-03-OS)
- Caldera, Irene (G17-34-P125 F)
- Calderón-Domínguez, María (G17-23-P114 F; G17-02-OI)
- Calero, Macarena (G05-12-P6)
- Calero-Muñoz, Nieves (G07-15-P99 F)
- Calisto, Barbara (G09-35-P40)
- Calle, Daniel (G13-25-P156)
- Calle-Guisado, Violeta (G10-07-P124)
- Calleja-Chuclá, Teresa (G01-04-P4 F,M)
- Callejas, Sergio (G13-26-P157)
- Callejas-Hernández, Francisco (G14-03-OS M)
- Calvo, Enrique (G09-09-P14 F)
- Calvo, Fernando (G05-04-OS)
- Calvo, Víctor (G08-01-OI)
- Calzada, María J (G02-07-P8 F)
- Camacho, Esther (G14-05-P162)
- Camacho, Laura (G05-16-P10 F,M)
- Camacho, Mónica (G09-41-P46; G12-01-OI; G12-16-P134; G12-17-P135; G12-18-P136; G12-20-P138)
- Camacho, Silvia (G10-05-P122)
- Camara, Yolanda (G18-22-P141 F)
- Cámara Quílez, María (G02-28-P29 F)
- Camara-Artigas, Ana (G09-37-P42)
- Camañes, Gemma (G12-15-P133 F)
- Cameselle, José Carlos (G09-26-P31)
- Campillo, Núria (G05-06-OS M; G14-06-P163 F,M; G14-02-OI)
- Campuzano, Sonsoles (G03-03-OS)
- Canal-Martín, Andrea (G05-06-OS M)
- Canals, Meritxell (G18-10-P129 F,M)
- Canas, Rafael A. (G06-06-P88; G12-10-P128 F)
- Canela, Enric I. (G13-27-P158; G13-28-P159; G18-10-P129 F,M)
- Canellas, Marina (G07-12-P96)
- Canelles, Sandra (G13-08-P139)
- Cano, Amparo (G05-11-P5)
- Cano, Eva (G17-34-P125 F)
- Cánovas, Francisco M. (G06-03-OS M; G06-06-P88; G12-06-OS; G12-10-P128 F)
- Cantero, Marta (G03-11-P80)
- Cantí, Carles (G01-01-P1 F,M)
- Capó, Xavier (G15-17-P76; G15-18-P77)
- Carabias-Carrasco, Mónica (G13-18-P149)
- Caravilla, Pablo (G11-04-OS)
- Carballar, Reyes (G02-36-P37 F)
- Carbonell, Alberto (G06-02-OI)
- Carmeliet, Peter (G13-17-P148 F; G15-16-P75)
- Carmona, Beatriz (G15-11-P70 F,M)
- Carmona-Sáez, Pedro (G02-52-P53 F,M)
- Carneros, Elena (G06-08-P90)
- Caro-Villalobos, Miriam (G18-10-P129 F,M)
- Carpena, Xavier (G09-35-P40)
- Carpintero-Fernández, Paula (G05-10-P4 F,M)
- Carracedo, Arkaitz (G04-08-P85 F,M; G05-04-OS; G05-16-P10 F,M)
- Carrasco, Carolina (G09-17-P22)
- Carrasco Jiménez, María Paz (G05-18-P12)
- Carrascosa, José L. (G09-11-P16)
- Carrecedo Pérez, Arkaitz (G17-25-P116 F,M)
- Carreira, Patricia (G02-22-P23 F,M)
- Carreira, Raquel (G16-13-P87 F)
- Carrera-Cañas, Carlos (G13-24-P155 F)
- Carrión, Rebeca (G18-18-P137 F,M)
- Carrión Marchante, Rebeca (G18-32-P151 F,M)
- Carvajal, Jaime (G16-06-OS M)
- Carvajal-González, Jose María (G18-34-P153)
- Casado, Javier (G09-23-P28)
- Casado, María E. (G02-08-P9 F,M)
- Casadó, Vicent (G13-27-P158; G13-28-P159; G18-10-P129 F,M)
- Casado Pinna, Marta (G02-10-P11)
- Casadó-Anguera, Verónica (G13-28-P159)
- Casado-Masa, Sabela (G17-32-P123 F,M)
- Casals, Cristina (G11-09-P62; G18-29-P148)
- Casals, Núria (G17-15-P106 F,M; G17-04-OS M; G17-23-P114 F)
- Casanova Melchor, Natalia (G02-10-P11)
- Casar, Berta (G02-20-P21 F)
- Casares, Fernando (G04-09-P86)
- Casas, Josefina (G17-23-P114 F)
- Casañal, Ana (S2.2-3)
- Casino, Patricia (G09-38-P43 F)
- Cassina, Valeria (G09-36-P41)
- Castano, Esther (G17-34-P125 F; G17-35-P126 F,M)
- Castano, José G. (G08-01-OI)
- Castellanos, Milagros (G05-12-P6)
- Castellanos-Martínez, Antonio (G13-28-P159)
- Castells, Antoni (G16-09-P83)
- Castillo, Carlos Alberto (G08-12-P109; G13-15-P146)
- Castillo-Lluva, Sonia (G01-02-P2; G18-24-P143 F,M)
- Castro, Beatriz (G16-18-P92)
- Castro, Carmen (G02-68-P69 F)
- Castro, Luis (G05-17-P11 F)
- Castro Laguna, Mara (G09-22-P27 F)
- Castro-Iglesias, Alejandro (G01-04-P4 F,M)
- Cayo, Carmen (G09-50-P55)
- Cayuela, María L. (G02-38-P39 F,M)
- Cañada, Francisco Javier (G05-08-P2, G05-13-P7 F)
- Celaya, Adelaida M. (G02-66-P67; G15-15-P74 F,M)
- Centeno, Francisco (G18-34-P153)
- Cerdán, María Esperanza (G10-04-P121 F,M; G16-07-OS)
- Cerdán, Sebastián (G15-08-P67 F,M)
- Cerdán Villanueva, María Esperanza (G02-28-P29 F)
- Cerezo, David (G09-40-P45 F,M)
- Cervantes, Blanca (G02-66-P67; G18-21-P140)
- Chakrabarti, Anob M. (G13-02-OI)
- Chaves-Arquero, Belen (G09-47-P52)
- Chaves-Sanjuán, Antonio (G05-06-OS M)
- Chávez, Sebastián (G16-21-P95 F,M)

Chavez, Tatiana (G07-09-P93 F,M)
 Chávez González, Mónica Lizeth (G07-17-P101 F,M)
 Chichón, Francisco Javier (G09-11-P16)
 Chocarro-Calvo, Ana (G02-16-P17 F,M; G02-39-P40; G18-12-P131; G18-15-P134 F,M; G18-33-P152 F)
 Choudhuri, Avik (G02-38-P39 F,M)
 Chowen, Julie Ann (G13-08-P139)
 Choya-Foces, Carmen (G15-05-OS)
 Cibou, Nicolae (G08-18-P115)
 Cid Torres, María Antonia (G08-09-P106)
 Cilleros, Dario (G18-39-P158 F,M)
 Citores, Lucia (G09-32-P37; G09-34-P39)
 Cives-Losada, Candela (G02-06-OS)
 Clotet, Josep (G02-36-P37 F; G08-13-P110)
 Cobos, Enrique José (G13-29-P160 F,M)
 Codoñer-Franch, Pilar (G02-50-P51; G02-51-P52; G18-16-P135)
 Cogolludo Torralba, Ángel (G02-07-P8 F)
 Coleman, Nicholas (G05-04-OS)
 Collinson, Ian (G09-39-P44)
 Colomina, Neus (G09-21-P26 F)
 Comella, Joan (G18-22-P141 F)
 Conde, Elisa (G02-64-P65 F,M; G02-65-P66 F,M)
 Conde-Caballero, David (G08-12-P109)
 Consiglio, Antonella (G17-15-P106 F,M)
 Contartese, Daniela S. (G13-11-P142 F)
 Contreras, Laura (G13-10-P141 F,M)
 Contreras Esquivel, Juan Carlos (G07-17-P101 F,M)
 Contreras-Moreira, Bruno (G04-05-P82)
 Corchado-Cobos, Roberto (G02-72-P73)
 Cordeiro, Tiago N. (G09-28-P33 F,M)
 Cordomi, Arnau (G09-44-P49)
 Corey, Robin (G09-39-P44)
 Corral, Lorena (G13-15-P146)
 Corrales, Patricia (G02-27-P28 F,M)
 Corratge-Faillie, Claire (G06-09-P91 F,M)
 Corres-Mendizabal, Jon (G05-16-P10 F,M)
 Cortajarena, Aitziber L. (G05-02-OI)
 Cortázar, Ana Rosa (G04-08-P85 F,M; G05-16-P10 F,M)
 Cortés, Adriana (G15-03-OS)
 Cortés, Antonio (G13-28-P159)
 Cortes, Elsa (G18-13-P132)
 Cortes-Canteli, Marta (G13-26-P157)
 Cortéz, Mauro J (G11-05-OS)
 Corti, Roberta (G09-16-P21; G09-36-P41)
 Costales-Carrera, Alba (G02-23-P24 F,M)
 Costell, Mercedes (G18-11-P130 F,M)
 Couso, Jorge (G02-71-P72)
 Crespo, Lorena (G02-64-P65 F,M; G02-65-P66 F,M)
 Crespo, María (G17-03-OS M)
 Crespo, Piero (S1.1-1; G02-20-P21 F)
 Crespi, Marta (G01-01-P1 F,M)
 Crosas Molist, Eva (G05-16-P10 F,M)
 Cruces-Sande, Marta (G02-56-P57 F,M)
 Cruz, Antonio (G11-13-P66)
 Cruz Visalaya, Sergio Rafael (G16-22-P96)
 Cubiella, Joaquín (G16-09-P83)
 Cucarella Tormo, Carme (G02-10-P11)
 Cuenda, Ana (S3.3-1)
 Cuezva Marcos, José M. (G02-41-P42 F)
 Cussó, Lorena (G13-25-P156)
 Cuéllar, Jorge (G09-45-P50 F)
 Cuñarro, Juan (G17-32-P123 F,M)
 Dafforn, Tim (G09-39-P44)
 Dal Peraro, Matteo (G05-13-P7 F)
 Dauphin-Ducharme, Philippe (G09-15-P20)
 De Agustín-Durán, David (G13-12-P143)
 De Andres, Raquel (G13-04-OS)
 De Andrés, Isabel (G13-24-P155 F)

De Biasio, Alfredo (G09-28-P33 F,M)
 De Brasi, Sabrina (G06-05-P87)
 De Cabo, Rafael (G17-28-P119 F; G17-30-P121 F)
 De Castro-Millán, Francisco Javier (G02-12-P13 F,M)
 De Chiara, Loretta (G16-09-P83; G16-11-P85)
 De Miguel, Carlos (G15-03-OS; G17-18-P109 F,M)
 De Pablo, Flora (G13-07-OS M)
 De Tapia, Lidia (G11-09-P62)
 De Toro, María (G17-05-OS)
 De la Calle-Mustienes, Elisa (G03-02-OI)
 De la Casa Esperon, Elena (G16-10-P84 F,M)
 De la Casa, Moisés (G10-05-P122)
 De la Fuente Luelmo, Eva (G02-37-P38)
 De la Fuente, Dalia (G02-20-P21 F)
 De la Fuente, Hortensia (G18-02-OI)
 De la Fuente, Sandra (G13-01-OI)
 De la Rosa, Enrique (G13-07-OS M)
 De la Rosa, Miguel A. (G09-04-OS; G09-31-P36)
 De la Torre, Fernando (G06-03-OS M; G12-06-OS)
 De la Vieja, Antonio (G02-16-P17 F,M; G02-39-P40; G02-46-P47 F,M; G18-33-P152 F)
 De la Villa, Pedro (G13-07-OS M)
 De las Rivas, Javier (G04-01-OI; G10-02-OS M)
 De las Rivas, M. (G09-07-OS)
 De los Reyes Berbel, Eduardo (G07-16-P100 F,M)
 Degliesposti, Gianluca (S2.2-3)
 Del Arco, Araceli (G13-10-P141 F,M; G18-19-P138 F)
 Del Caño-Ochoa, Francisco (G09-53-P58 F)
 Del Olmo, Esther (G14-07-P164)
 Del Pso, Luis (G02-09-P10 F,M; G08-01-OI)
 Del Rincón Benéytez, Adrián (G09-54-P59 F,M)
 Deleyto, Nerea (G02-33-P34 F)
 Delgado, Javier (G02-13-P14)
 Delgado, Katia (G17-15-P106 F,M)
 Delgado, Rafael (G09-52-P57 F,M)
 Delgado-Esteban, María (G01-03-P3 M)
 Delicado, Esmerilda G. (G13-12-P143; G13-13-P144)
 Demicheli, Josefina (G06-05-P87)
 Desco, Manuel (G13-25-P156)
 Deupi, Xavier (S2.3-2)
 Di Maro, Antimo (G09-32-P37; G09-34-P39)
 Díaz, Federico (G02-22-P23 F,M)
 Diaz, Isabel (G06-01-OI)
 Diaz, Pedro (G15-09-P68)
 Diaz-Chamorro, Selene (G18-34-P153)
 Díaz-Grijuela, Elisa (G08-17-P114)
 Díaz-Hernández, Juan I. (PL02)
 Díaz-Luzza, Esteban M. (G06-08-P90)
 Díaz-Martínez, Marta (G18-01-OI)
 Díaz-Moreno, Irene (G09-04-OS; G09-31-P36)
 Díaz-Quintana, Antonio (G09-04-OS; G09-31-P36)
 Díaz-Talavera, Alberto (G16-03-OS)
 Díaz-Troya, Sandra (G12-11-P129)
 Diego-Hernández, Cristina (G02-46-P47 F,M)
 Diéguez, Carlos (G17-32-P123 F,M)
 Diéguez-Martínez, Nora (G18-25-P144 F,M)
 Diercks, Tammo (G09-28-P33 F,M)
 Díez, Amalia (G02-45-P46 F; G14-01-OI; G14-08-P165)
 Díez, Jesús (G12-07-P125; G12-13-P131 F)
 Díez, José C. (G15-10-P69)
 Díez, Paula (G10-02-OS M)
 Díez-Campelo, María (G18-09-P128 F,M)
 Díez-Espallargas, Luis (G14-01-OI)

Díez-Guerra, F Javier (G13-04-OS)
 Dillingham, Mark S. (G09-06-OS; G09-13-P18 F,M)
 Doblado, Laura (G15-13-P72; G15-14-P73)
 Domingo, Inés (G18-25-P144 F,M)
 Dominguez, Fernando (G02-13-P14)
 Domínguez, Gemma (G02-54-P55 F)
 Domínguez-Martín, María Agustina (G12-13-P131 F)
 Dopazo, Joaquín (G02-27-P28 F,M)
 Dorfman, Veronica B. (G13-11-P142 F)
 Dorta-Guerra, Roberto (G08-10-P107)
 Drincovich, María Fabiana (PL07)
 Droste, Conrad (G10-02-OS M)
 Du, Juan (G17-18-P109 F,M)
 Duart, Gerard (G11-10-P63)
 Dunker, A. Keith (G04-05-P82)
 Duran, Lucia (G02-37-P38)
 Duxin, Julien (S3.2-3)
 Dyon, Loic (G17-27-P118)
 Easter, Ashley D. (S2.2-3)
 Eberhardt, Martín (G04-06-P83 F)
 Ehse, Janina (G13-02-OI)
 El-Azaz, Jorge (G06-03-OS M; G12-06-OS)
 Electo, Jorge (G09-48-P53)
 Elices, Manuel (G09-10-P15)
 Elorza, Ainara (PL02)
 Embarc-Buh, Azman (G16-12-P86 F)
 Emperador, Sonia (G02-14-P15 F,M; G02-17-P18 F,M; G02-18-P19 F,M)
 Emsley, Paul (S2.2-3)
 Enriquez, José Antonio (G15-05-OS)
 Escalona, Cármen (G09-29-P34)
 Escalona-Noguero, Cármen (G07-05-OS M)
 Escamilla-Honrubia, Juan Manuel (G09-43-P48)
 Escarcena, Ricardo (G14-07-P164)
 Esclapez, Julia (G09-41-P46; G12-01-OI; G12-16-P134; G12-17-P135; G12-18-P136; G12-20-P138)
 Escolà-Gil, Joan Carles (G17-23-P114 F)
 Escribano, Óscar (G02-73-P74 F,M)
 Escribano-Gómez, María Isabel (G12-07-P125)
 Escriva, Hector (G03-02-OI)
 Escrivá, Fernando (G17-10-P101 F,M)
 Esparis-Ogando, Azucena (G18-01-OI)
 Espasa, Mateu (G16-16-P90)
 Espinosa-Escudero, Ricardo A (G11-06-OS)
 Espinosa-Gil, Sergio (G18-25-P144 F,M)
 Espinoza, Jordano (G09-50-P55)
 Esteban, Susana (G13-22-P153)
 Esteban Barragan, Miguel Ángel (S1.3-2)
 Esteller, Manel (G16-09-P83)
 Esteve, Daniel (G02-43-P44 F)
 Estupiñán, Mónica (G11-08-P61)
 Etxaniz, Asier (G11-11-P64)
 Exposito-Domínguez, Neus (G11-10-P63)
 Fabregat, Isabel (G02-33-P34 F)
 Fajardo-Delgado, Dánae (G02-46-P47 F,M)
 Falcon, Juan Manuel (G03-06-OS)
 Falcon, Rosa (G15-09-P68)
 Felipe, Raquel (G11-07-P60 F)
 Fernández, Almudena (G03-11-P80)
 Fernández, Arsenio (G08-21-P118)
 Fernández, Emilio (G12-03-OS; G12-09-P127; G13-17-P148 F)
 Fernández, José Antonio (G06-09-P91 F,M)
 Fernández, Juan C. (G13-11-P142 F)
 Fernández, Julia (G03-11-P80)
 Fernández, Julio M. (G09-19-P24 F,M)
 Fernández, Mikel (G17-35-P126 F,M)
 Fernández, Silvia (G02-73-P74 F,M)
 Fernández, Sonia (G05-16-P10 F,M)
 Fernández Blanco, Laura (G02-07-P8 F)

- Fernández Moya, Sandra M. (G13-02-OI)
 Fernández Novell, Josep María (G02-70-P71; G08-20-P117)
 Fernández Rubio, Celia (G14-09-P166; G14-10-P167)
 Fernández-Aroca, Diego Manuel (G02-75-P76)
 Fernández-Barral, Asunción (G02-23-P24 F,M)
 Fernández-Beltrán, Luis (G05-06-OS M)
 Fernández-Burgos, Daniel (G13-25-P156)
 Fernández-Capetillo, Óscar (G02-05-OS; G02-32-P33 F,M; G02-34-P35 F,M; G02-60-P61; G09-54-P59 F,M; G13-03-OS)
 Fernández-Chacón, Rafael (PL02)
 Fernández-Crespo, Emma (G12-15-P133 F)
 Fernández-García, Bárbara Victoria (G02-12-P13 F,M)
 Fernández-Huerta, Miguel (G16-16-P90)
 Fernández-Leiro, Rafael (G09-42-P47 F,M)
 Fernández-Millán, Elisa (G17-10-P101 F,M)
 Fernández-Moreno, Miguel Ángel (G02-47-P48)
 Fernández-Noguera, Patricia (G02-58-P59)
 Fernández-Nueda, Irene (G13-26-P157)
 Fernández-Pérez, Cintia (G02-07-P8 F)
 Fernández-Recio, Juan (G04-02-OS M; G09-27-P32 F,M)
 Fernández-Santander, Ana (G02-31-P32 F,M)
 Fernández-Tejada, Alberto (G05-15-P9)
 Fernández-Trasancos, Ángel (G09-19-P24 F,M)
 Fernández-Velasco, María (G02-21-P22 F)
 Fernández-Veledo, Sonia (G02-02-OI)
 Ferre, Sergi (G13-27-P158)
 Ferrer, Marina (G05-17-P11 F)
 Ferrer, Miguel (G15-17-P76)
 Ferrer, Miguel D. (G08-11-P108)
 Ferrer-Mayorga, Gemma (G02-09-P10 F,M)
 Ferreras Martín, Raquel (G18-32-P151 F,M)
 Ferreras, Jose Miguel (G09-32-P37; G09-34-P39)
 Ferrus, Alberto (G05-06-OS M)
 Figueras, Agnes (G18-43-P163 F)
 Fillat, María F. (G08-19-P116; G12-19-P137 F)
 Firbas, Panos (G03-02-OI)
 Fisher, Gemma L. M. (G09-06-OS)
 Fita, Ignacio (G09-30-P35)
 Fitch, Sophie Jane (G02-47-P48)
 Fiuza, María Carmen (G02-39-P40; G18-12-P131; G18-15-P134 F,M)
 Florencio, Francisco Javier (G12-11-P129; G12-12-P130)
 Flores, Carmen-Lisset (G17-12-P103 F)
 Fobil, Julius (G14-08-P165)
 Fonseca, Eduardo (G01-04-P4 F,M; G10-03-OS)
 Fonseca Balvis, Noelia (G02-42-P43 F,M; G02-53-P54 F,M)
 Fontova, Pere (G17-34-P125 F)
 Forcada-Nadal, Alicia (G02-49-P50 F)
 Formentini, Laura (G02-41-P42 F)
 Fossatti Jara, Diego Matia (G16-22-P96)
 Frago, Laura María (G13-08-P139)
 Francisco-Velilla, Rosario (G16-12-P86 F)
 Franco, Diego (G03-04-OS M)
 Franco Rivadeneira, María Luisa (G16-24-P98)
 Freire-Picos, María Ángeles (G18-08-P127)
 Freire-Regatillo, Alejandra (G13-08-P139)
 Fresno, Manuel (G02-62-P63 F,M; G14-03-OS M; G18-20-P139 F,M)
 Fresno Escudero, Manuel (G02-61-P62 F,M)
 Frezza, Valerio (G18-18-P137 F,M)
 Frisso, Giulia (G02-13-P14)
 Fruhbeck, Gema (G17-23-P114 F)
 Frutos-Beltrán, Estrella (G07-15-P99 F)
 Fucho, Raquel (G17-23-P114 F)
 Fuentes, Manuel (G02-72-P73; G10-02-OS M)
 Fuertes Agudo, Marina (G02-10-P11)
 Fueyo Marcos, Elena (G02-05-OS)
 Fuster, Gemma (G02-58-P59)
 Fuster, Valentín (G13-26-P157; G18-02-OI)
 G. Marin, Jose J. (G02-06-OS)
 Gabaldón, Jose Antonio (G18-42-P162)
 Gabicageascoa, Estibaliz (G01-02-P2; G18-04-OS M)
 Gago, Federico (G04-03-OS)
 Gaibar, María (G02-31-P32 F,M)
 Galan, Eva M. (G18-07-OS M)
 Galán, Miguel (G02-31-P32 F,M)
 Galan-Diez, Marta (G02-11-P12 F,M)
 Gallardini, Marco (G18-28-P147 F,M)
 Gallardo, Antonia María (G12-12-P130)
 Gallardo, Jose (G09-29-P34)
 Gallardo-Fuentes, Lourdes (G03-05-OS)
 Gallardo-Gómez, María (G16-09-P83; G16-11-P85)
 Gallego del Sol, Francisca (G09-03-OS)
 Galván, Aurora (G12-03-OS; G12-09-P127)
 Galve-Roperh, Ismael (G13-06-OS)
 Galvis-Jiménez, Milena (G02-72-P73)
 Gamarro, Francisco (G14-07-P164)
 Gámez, Andrés (G18-25-P144 F,M)
 Gancedo, Carlos (G17-12-P103 F)
 Garcerá, Ana (G13-01-OI)
 García, Aitana (G15-13-P72; G15-14-P73)
 García, Casandra (G02-40-P41 F,M)
 García, Concha (G02-57-P58)
 García, Jesús (G08-22-P119 F)
 García, Jorge (G17-18-P109 F,M)
 García, José Javier (G18-41-P160)
 García, Juan Luis (G02-72-P73)
 García, Lara (G18-31-P150)
 García, María Laura (G02-64-P65 F,M; G02-65-P66 F,M)
 García, María Ángel (G02-74-P75)
 García, Ramón (G18-31-P150)
 García, Raquel (G15-08-P67 F,M; G15-12-P71)
 García, Roberto (G17-14-P105 F)
 García de Frutos, Pablo (G02-69-P70)
 García Delicado, Esmerilda (G18-17-P136 F)
 García Doval, Carmela (S2.2-2)
 García Hernández, Marta (G18-32-P151 F,M)
 García Higuera, Irene (G08-09-P106; G17-29-P120)
 García Marin, Jose Juan (G11-06-OS)
 García Martínez, Jose Manuel (G02-39-P40)
 García Prieto, Teresa (G02-61-P62 F,M)
 García Ruiz, Eva (G07-14-P98)
 García Silva, Susana (G02-03-OS)
 García Soriano, Juan Carlos (G14-11-P168 F)
 García-Agustín, Pilar (G12-15-P133 F)
 García-Arribas, Aritz (G11-12-P65)
 García-Bravo, María (G02-33-P34 F)
 García-Calderón, Margarita (G12-02-OI)
 García-Casas, Ana (G01-02-P2; G18-24-P143 F,M)
 García-Cenador, María Begoña (G02-72-P73)
 García-Criado, Francisco Javier (G02-72-P73)
 García-del Portillo, Francisco (G09-38-P43 F)
 García-Fernández, José Manuel (G12-07-P125; G12-13-P131 F)
 García-Fojeda, Belén (G11-09-P62; G18-29-P148)
 García-Frontini, Celeste (G18-24-P143 F,M)
 García-García, Sara (G02-53-P54 F,M)
 García-Giustiniani, Diego (G02-13-P14)
 García-Gonzalo, Francesc R (G18-39-P158 F,M)
 García-Guimaraes, Marcos M. (G18-02-OI)
 García-Gómez, Gema (G02-73-P74 F,M)
 García-Hernández, Raquel (G14-07-P164)
 García-Hernández, Violeta (G18-35-P154 F)
 García-Jiménez, Custodia (G02-16-P17 F,M; G02-39-P40; G02-46-P47 F,M; G18-06-OS; G18-12-P131; G18-15-P134 F,M; G18-33-P152 F)
 García-Just, Alba (G17-16-P107)
 García-Lacarte, Marcos (G17-11-P102)
 García-Linares, Sara (G11-02-OI)
 García-Marin, Luis Jesús (G10-07-P124)
 García-Martínez, Guillermo (G06-09-P91 F,M)
 García-Martínez, José (G16-21-P95 F,M)
 García-Martínez, José Manuel (G02-16-P17 F,M; G18-15-P134 F,M; G18-12-P131; G18-33-P152 F)
 García-Mato, Ángela (G01-05-P5; G02-44-P45; G02-66-P67; G18-21-P140)
 García-Mauriño, Sofía M. (G09-31-P36)
 García-Mina, José M^a (G12-04-OS)
 García-Monzón, Carmelo (PL06)
 García-Moreno, Diana (G02-38-P39 F,M)
 García-Mouton, Cristina (G11-13-P66)
 García-Murria, M^a Jesus (G11-10-P63)
 García-Nafria, Javier (G09-02-OI)
 García-Ortega, Lucía (G09-52-P57 F,M)
 García-Ortega, María Belen (G02-74-P75)
 García-Padilla, Carlos (G03-04-OS M)
 García-Pavía, Pablo (G02-13-P14)
 García-Pérez, Ana I. (G15-10-P69)
 García-Pérez, Miguel Ángel (G02-50-P51, G02-51-P52; G18-16-P135)
 García-Sancha, Natalia (G02-72-P73)
 García-Segura, Luis Miguel (G13-08-P139)
 García-Sánchez, Asunción (G02-72-P73)
 García-Taboada, Elena (G18-04-OS M)
 García-Trevijano, Elena R (G02-57-P58)
 García-Tuñon, Ignacio (G11-06-OS)
 García-Vesga, Arturo (G11-04-OS)
 García-Vicente, Laura (G05-14-P8 F; G18-30-P149 F)
 García-Villalón, Ángel Luis (G15-07-OS M)
 Garesse, Rafael (G02-47-P48)
 Garifallou, James (G02-53-P54 F,M)
 Garranzo, María (G10-06-P123 F)
 Garrido-García, Alberto (G13-04-OS)
 Garrido-Jiménez, Sergio (G18-34-P153)
 Garrido-Pérez, Núria (G02-15-P16 F,M; G02-18-P19 F,M)
 Garriga, Pere (G09-44-P49)
 Garzon, Javier (G18-13-P132)
 Garzón, Miguel (G13-24-P155 F)
 Gascon, Pere (G02-58-P59)
 Gascon, Sergio (G13-12-P143)
 Gascon, Sonia (G17-09-P100)
 Gaudó, Paula (G02-18-P19 F,M)
 Gavilanes, José G. (G11-02-OI)
 Gavira, Jose Antonio (G09-37-P42)
 Gaya-Bover, Auba (G17-26-P117)
 Geier, Andreas (G11-06-OS)
 Genomic Consortium (44 MORE AUTHORS), Branchiostoma lanceolatum (G03-02-OI)
 Geraki, Kalotina (G07-09-P93 F,M)
 Gerken, T.A. (G09-07-OS)
 Geschwind, Daniel H. (PL02)
 Gianotti, Magdalena (G17-20-P111; G17-21-P112; G17-22-P113; G17-24-P115)
 Gibaja, Alejandro (G03-07-OS M)
 Giel, Judith (G12-07-P125)
 Gil, Carmen (G14-06-P163 F,M)
 Gil-Ortiz, Fernando (G09-35-P40)
 Gil-Redondo, Juan Carlos (G13-12-P143; G13-13-P144)
 Gimeno-Lluch, Irene (G18-11-P130 F,M)

- Giménez, Sara (G02-64-P65 F,M; G02-65-P66 F,M)
 Giménez-Bonafé, Pepita (G08-23-P120 F)
 Giner-Lamia, Joaquín (G09-38-P43 F)
 Giraldo, Rafael (G09-12-P17)
 Giron, Cristina (G18-22-P141 F; G18-26-P145 F)
 Girón González, María Dolores (G07-16-P100 F,M; G18-45-P165 F)
 Gironès, Núria (G14-03-OS M)
 Goding, Colin R. (G18-06-OS; G18-12-P131)
 Gómez, Bernardo José (G07-11-P95)
 Gómez, Carla (G02-24-P25)
 Gómez, Miguel (G16-15-P89)
 Gómez, Ricardo (G02-68-P69 F)
 Gómez Bris, Raquel (G18-20-P139 F,M)
 Gómez de Cedrón, Marta (G05-14-P8 F; G15-04-OS M)
 Gómez de Santos, Patricia (G07-12-P96)
 Gómez Fontela, Miguel (G16-06-OS M)
 Gómez-Baena, Guadalupe (G12-13-P131 F)
 Gómez-Cabrero, David (G16-09-P83)
 Gómez-Calvo, Francisco (G16-12-P86 F)
 Gómez-Hernández, Almudena (G02-73-P74 F,M)
 Gómez-Muñoz, Antonio (G05-16-P10 F,M)
 Gómez-Pérez, Verónica (G14-07-P164)
 Gómez-Santos, Beatriz (PL06; G02-04-OS M)
 Gómez-Skarmeta, Jose Luis (G03-02-OI)
 Gómez-Vecino, Aurora (G02-72-P73)
 Gómez-Vicente, Beatriz (G15-21-P80 F,M)
 Gómez-Villafuertes, Rosa (G13-12-P143; G18-17-P136 F)
 Gomis, Roger (G05-01-OI)
 González Soiltero, María del Rocío (G08-09-P106)
 González, Amaia (G09-28-P33 F,M)
 González, Andrés (G08-19-P116; G09-23-P28)
 González, Carlos (G17-13-P104 F)
 González, Esperanza (G03-06-OS)
 González, Marcos (G10-02-OS M)
 González, Miguel (G16-19-P93)
 González, Nahikari (G09-35-P40)
 González, Victor (G18-18-P137 F,M)
 González, Victor M. (G18-32-P151 F,M)
 González, Álvaro (G15-22-P81 F,M)
 González-Aguado, Patricia (G02-75-P76)
 González-Azcárate, Isabel (G02-45-P46 F; G14-01-OI; G14-08-P165)
 González-de la Fuente, Sandra (G14-05-P162)
 González-Fernández, Lauro (G10-07-P124)
 González-García, Ismael (G17-04-OS M)
 González-González, Inmaculada M (G13-23-P154 F,M)
 González-Guerrero, Sonia (G13-21-P152 F,M)
 González-Hernández, Ana Isabel (G12-15-P133 F)
 González-Koslova, Edgar (G09-51-P56)
 González-Mendez, Laura (G03-06-OS)
 González-Miguel, Javier (G14-04-OS)
 González-Moreno, Luis (G18-19-P138 F)
 González-Méndez, Laura (G03-10-P79)
 González-Paramos, Cristina (G02-47-P48)
 González-Pérez, Esther (G03-03-OS)
 González-Ramírez, Emilio J (G11-03-OS; G11-12-P65)
 González-Ramos, Silvia (G02-12-P13 F,M)
 González-Romero, Francisco (PL06; G02-04-OS M)
 González-Sancho, José Manuel (G02-09-P10 F,M)
 González-Vicens, Agustí (G17-20-P111; G17-21-P112; G17-22-P113; G17-24-P115)
 Gosálvez, Jaime (G10-05-P122)
 Gotor, Cecilia (G06-07-P89)
 Govea Salas, Mayela (G07-17-P101 F,M)
 Goya, Luis (G17-08-P99)
 Goñi, Félix M. (G11-08-P61; G11-11-P64; G11-03-OS; G11-12-P65)
 Gradilla, Ana Citlali (G03-10-P79; G03-06-OS)
 Granado, Miriam (G15-07-OS M)
 Grandori, Rita (G09-36-P41)
 Grant Hutchful, Afred (G14-08-P165)
 Grau, Carme (G17-13-P104 F)
 Grbic, Vojislava (G06-01-OI)
 Griñan, Carmen (G02-74-P75)
 Gris-Cárdenas, Isabel (G01-06-P6 F; G01-07-P7 F)
 Gualix, Javier (G18-17-P136 F)
 Guallar, Victor (G07-12-P96; G07-06-OS)
 Guardia, Ana María (G03-11-P80)
 Guebel, Daniel V. (G13-14-P145 F)
 Guerra, Susana (G16-03-OS)
 Guerra-Cantera, Santiago (G13-08-P139)
 Guerra-Castellano, Alejandra (G09-04-OS)
 Guerrero, Carmen (G02-48-P49 F; G18-05-OS M)
 Guerrero, Isabel (G03-10-P79; G03-06-OS)
 Guerri, Consuelo (G13-09-P140)
 Guinea, Gustavo Víctor (G09-10-P15)
 Guinovart i Cirera, Joan (G18-45-P165 F)
 Guño, Jorge (G12-19-P137 F)
 Guitián-Caamaño, Amanda (G01-04-P4 F,M; G10-03-OS)
 Gutierrez, L. Roxana (G11-05-OS)
 Gutierrez-Rus, Luis (G07-07-OS)
 Gutiérrez-Uzquiza, Álvaro (G02-42-P43 F,M; G02-48-P49 F; G02-53-P54 F,M; G02-58-P59; G18-05-OS M)
 Gutiérrez de Juan, Virginia (PL06)
 Gutiérrez-Adán, Alfonso (G02-08-P9 F,M)
 Gutiérrez-de-Terán, Hugo (S2.3-1)
 Gutiérrez-Salmerón, María (G02-16-P17 F,M; G02-39-P40; G18-12-P131; G18-15-P134 F,M; G18-33-P152 F)
 Guzmán, Manuel (G13-06-OS; G18-10-P129 F,M)
 Guzmán-Caldentey, Joan (G05-03-OS; G09-18-P23)
 Ha, Taekjip (PL08)
 Habbane, Mouna (G02-17-P18 F,M)
 Hakonarson, Hakon (G02-42-P43 F,M; G02-53-P54 F,M)
 Haro García, María (G02-37-P38)
 Hatzakis, NS (G09-01-OI)
 Hendriks, Maurice (G09-08-P13 F,M)
 Heras, Marcos (G14-08-P165)
 Hererros, Judit (G01-01-P1 F,M)
 Hermanns, Heike M (G11-06-OS)
 Hermanova, Ivana (G05-16-P10 F,M)
 Hernández, Agustín (G11-05-OS)
 Hernández, Ivó H. (PL02)
 Hernández, Lucía (G18-10-P129 F,M)
 Hernández, Noelia (G05-13-P7 F)
 Hernández Barranco, Alberto (G02-03-OS)
 Hernández Mateo, Fernando (G07-16-P100 F,M)
 Hernández-Ainsa, Carmen (G02-14-P15 F,M)
 Hernández-Fernández, Javier (G15-20-P79 M)
 Hernández-García, Elena (G18-02-OI)
 Hernández-Hernández, Ángel (G02-59-P60 F,M; G15-04-OS M; G18-09-P128 F,M; G18-35-P154 F)
 Hernández-Pinto, Alberto (G13-07-OS M)
 Hernández-Sánchez, Catalina (G13-07-OS M)
 Hernansanz-Agustín, Pablo (G15-05-OS)
 Herradón, Gonzalo (G17-17-P108 F,M)
 Herráez, Ángel (G08-07-P104; G15-10-P69)
 Herraez, Elisa (G02-06-OS; G11-06-OS)
 Herranz, Hector (S1.2-2)
 Herranz, Óscar (G18-05-OS M)
 Herrera, Blanca (G02-33-P34 F; G18-04-OS M)
 Herrera, Emilio (G17-33-P124)
 Herrera, Guadalupe (G02-50-P51; G02-51-P52; G18-16-P135)
 Herrero, Carmen (G02-66-P67)
 Herrero, Laura (G17-14-P105 F; G17-15-P106 F,M; G17-04-OS M; G17-19-P110; G17-23-P114 F; G17-02-OI)
 Herrero, Marina (G18-03-OS M)
 Herrero-Galán, Elías (G02-13-P14; G07-07-OS; G09-09-P14 F; G09-19-P24 F,M)
 Herreros-Cabello, Alfonso (G14-03-OS M)
 Hidalgo, Ivan (G13-01-OI)
 Hierro, Aitor (G09-27-P32 F,M)
 Higuera, Oliver (G02-54-P55 F)
 Hijazo Pecheiro, Sara (G15-15-P74 F,M)
 Hill, Chris H. (S2.2-3)
 Hill, David (G18-04-OS M)
 Hilvert, Donald (G05-05-OS)
 Hofrichter, Martín (G07-12-P96)
 Holgado-Madruga, Marina (G02-72-P73)
 Holland, Peter W. H. (G03-02-OI)
 Hollmann, Frank (G07-12-P96)
 Hom, Erik FY (G12-03-OS)
 Homar-Ruano, Patricia (G13-27-P158)
 Horrillo, Daniel (G02-27-P28 F,M)
 Hortigüela, Rafael (G02-16-P17 F,M; G02-46-P47 F,M)
 Houk, Kendall N. (G05-05-OS)
 Hueriga-Gómez, Alba (G13-06-OS)
 Huerta, Lydia (G02-08-P9 F,M)
 Huerta-López, Carla (G07-07-OS)
 Huertas, María Jose (G12-12-P130)
 Huesa, Juanjo (G09-38-P43 F)
 Humphreys, Neil (G13-23-P154 F,M)
 Hurtado, Vanesa (G16-19-P93)
 Hurtado de Llera, Ana (G10-07-P124)
 Hurtado-Guerrero, R. (G09-07-OS)
 Iannantuoni, Francesca (G15-09-P68)
 Ibanez, Borja (G13-26-P157)
 Ibáñez, Borja (G18-02-OI)
 Ibáñez, Francesc (G13-09-P140)
 Ibáñez de Opakua, Alain (G09-28-P33 F,M)
 Ibarguren, Izaskun (G08-03-OI)
 Ibars, Eva (G09-21-P26 F)
 Ibeas, Kevin (G17-14-P105 F; G17-15-P106 F,M; G17-04-OS M; G17-19-P110)
 Iglesias, Ainhoa (G02-04-OS M)
 Iglesias, Daniel (G08-23-P120 F)
 Iglesias, Eldris (G02-15-P16 F,M)
 Iglesias, Guillermo (G05-18-P12)
 Iglesias, Rosario (G09-32-P37; G09-34-P39)
 Iglesias Pedraz, Juan Manuel (G16-22-P96)
 Ijurko, Carla (G02-59-P60 F,M; G15-04-OS M; G18-09-P128 F,M)
 Iliná, Anna (G07-17-P101 F,M)
 Infante-Menéndez, Jorge (G02-73-P74 F,M)
 Infantes-González, Álvaro (G06-04-OS)
 Insausti, Sara (G11-04-OS)
 Insuasti, Lenin (G17-19-P110)
 Irimia, Manuel (PL02; G03-02-OI)
 Iriondo, Marina (G11-11-P64)
 Isacke, Clare (G05-04-OS)
 Isaksson, Helgi (G02-42-P43 F,M)
 Isasi, Miriam (G09-52-P57 F,M)
 Isidoro-García, María (G02-72-P73)
 Isiegas, Carolina (G13-07-OS M)
 Izquierdo, Ismael (G18-03-OS M)
 Izquierdo-Lahuerta, Adriana (G02-27-P28 F,M)
 Izquierdo-Peyrallo, Macarena (G02-50-P51; G02-51-P52)
 Iñiguez, María (G17-05-OS)

- Jabalera, Ylenia (G05-18-P12)
 Jaraíz-Rodríguez, Myriam (G05-14-P8 F; G18-30-P149 F)
 Jauregui, Patricia (G02-58-P59; G18-05-OS M)
 Jávega, Beatriz (G02-50-P51; G02-51-P52; G18-16-P135)
 Jawed, Areeb (G18-28-P147 F,M)
 Jaén, Rafael I. (G02-21-P22 F)
 Jensen, SB (G09-01-OI)
 Jiménez, Benilde (G08-01-OI)
 Jiménez, Carlos (G03-06-OS)
 Jiménez, Gema (G02-74-P75)
 Jiménez, Javier (G02-36-P37 F; G08-13-P110)
 Jiménez, Manuel (G13-22-P153)
 Jiménez López, Concepción (G05-18-P12)
 Jiménez Ruiz, Antonio (G14-11-P168 F)
 Jiménez-Alejandro, Rosa (G18-02-OI)
 Jiménez-Blasco, Daniel (G13-17-P148 F)
 Jiménez-Estrada, Juan Andrés (G12-07-P125)
 Jiménez-García, Brian (G04-07-P84 M; G08-14-P111 F)
 Jiménez-Jiménez, Carlos (G03-10-P79)
 Jiménez-Lalana, Diego (G07-06-OS)
 Jiménez-Osés, Gonzalo (G05-05-OS)
 Jiménez-Roses, Mireia (G09-44-P49)
 Jiménez-Salvador, Irene (G02-15-P16 F,M)
 Jno-Charles, Odella C. (G13-26-P157)
 Jorrín-Novo, Jesús V. (G06-04-OS)
 Josa, Santiago (G03-11-P80)
 Jove, Mariona (G15-08-P67 F,M)
 Jover, Rodrigo (G16-09-P83)
 Juan Carlos, Juan Carlos (G13-22-P153)
 Juanes Velasco, Pablo (G10-02-OS M)
 Juanhuix, Judith (G09-35-P40)
 Juaristi, Inés (G18-19-P138 F)
 Jurado-Flores, Ana (G06-07-P89)
 Kalograiaki, Ioanna (G05-13-P7 F)
 Kaminski, Courtney (G02-53-P54 F,M)
 Kang, Haejoo (G09-13-P18 F,M)
 Kao, Charlly (G02-42-P43 F,M)
 Kasho, Kazutoshi (G16-20-P94 F)
 Khan, Saleem A. (G09-17-P22)
 Kiebler, Michael A. (G13-02-OI)
 Komar, Joanna (G09-39-P44)
 Koukos, Panagiotis I. (G08-14-P111 F)
 Kousteni, Stavroula (G02-11-P12 F,M)
 Kramar, Barbara (G15-14-P73)
 Krejci, Lumir (G16-13-P87 F)
 Kruyer, Anna (G13-26-P157)
 Kumar, Ananthanarayanan (S2.2-3)
 Kurnik, Martín (G09-15-P20)
 Kurolap, Alina (G02-47-P48)
 Labarga, Alberto (G16-09-P83)
 Laborda, Jorge (G18-41-P160)
 Labrousse-Arias, David (G02-07-P8 F)
 Lafarga, Miguel (G02-60-P61)
 Lafarga, Vanesa (G02-60-P61; G09-54-P59 F,M; G13-03-OS; G18-27-P146 F; G18-38-P157)
 Lafuente-Gómez, Núria (G07-05-OS M)
 Lagal, Daniel José (G15-11-P70 F,M)
 Laguna-Barraza, Ricardo (G02-08-P9 F,M)
 Lai, Xin (G04-06-P83 F)
 Lama, Tomás (G16-19-P93)
 Lamas, Mónica (S1.3-3)
 Lamas-Maceiras, Mónica (G02-28-P29 F; G10-04-P121 F,M; G16-07-OS)
 Lambertos, Ana (G09-40-P45 F,M)
 Lanas, Ángel (G09-23-P28)
 Landeira Viñuela, Alicia (G10-02-OS M)
 Lapresa, Rebeca (G13-20-P151 F,M; G13-05-OS M; G13-21-P152 F,M)
 Largo, Eneko (G11-04-OS)
 Largo, Raquel (G10-03-OS)
 Larrayoz, Ignacio M. (G02-25-P26 F,M; G02-29-P30 F,M; G13-11-P142 F)
 Larrea, Esther (G14-09-P166; G14-10-P167)
 Larriba, María Jesús (G02-09-P10 F,M)
 Lasa, Marina (G08-01-OI; G08-02-OI)
 Lasala, Fátima (G09-52-P57 F,M)
 Lascorz, Jara (G09-21-P26 F)
 Lassueur, Steve (G17-27-P118)
 Lastres-Becker, Isabel (G08-02-OI; G15-06-OS)
 Lasunción, Miguel Ángel (G02-08-P9 F,M)
 Latorre, Alfonso (G05-12-P6)
 Latorre, Ana (G05-12-P6; G07-05-OS M)
 Laureano-Marín, Ana (G06-07-P89)
 Lauzurica Gómez, Pilar (G16-06-OS M; G16-15-P89)
 Lawrie, Charles H (G05-04-OS)
 Lazaro-Carrillo, Ana (G05-12-P6)
 Lazcanoiturburu, Nerea (G02-33-P34 F)
 Lazo, Fanny (G09-48-P53; G09-49-P54)
 Learte, Ana Isabel Rodríguez (G03-09-P78 F,M)
 Lecea, Mercedes (G05-12-P6)
 Lechuga, Alfonso María (G15-22-P81 F,M)
 Lecona, Emilio (S3.2-1)
 Lee, Flora C.Y. (G13-02-OI)
 Lee, Richard (G02-04-OS M)
 Lefkowitz, Robert J. (PL01)
 Leiva, Magdalena (G17-03-OS M)
 Leiva-Vega, Luis (G17-03-OS M)
 Lenhard, Boris (G03-02-OI)
 Lennol, Matthew Paul (G13-08-P139)
 Leon, Yolanda (G03-08-P77)
 Leuba, Sanford H. (G09-17-P22)
 Ley, Steve (S3.3-3)
 Li, Hui (G09-15-P20)
 Li, Yong (G09-19-P24 F,M)
 Liarte, Sergio (G18-42-P162)
 Lillo, Concepción (G13-07-OS M)
 Linares, Miriam (G15-22-P81 F,M)
 Linares Pérez, Azahara (G18-45-P165 F)
 Linke, Wolfgang A. (G09-19-P24 F,M)
 Lioy, Virginia S. (G09-33-P38)
 Lister, Ryan (G03-02-OI)
 Liu, Luisa (G12-15-P133 F)
 Lizasoain, Ignacio (G13-07-OS M)
 Lizcano, Jose M (G18-25-P144 F,M)
 Llácer, José Luis (G09-43-P48)
 Lladó, Isabel (G02-56-P57 F,M; G08-18-P115; G17-20-P111; G17-21-P112; G17-22-P113; G17-24-P115)
 Llamas, Ángel (G12-03-OS)
 Llauró, Aida (G09-08-P13 F,M)
 Lleida, Irene (G17-04-OS M)
 Lloberas, Núria (G17-34-P125 F)
 Llopert, Nàtalia (G13-28-P159)
 Llorca, Óscar (G09-25-P30 M; G09-42-P47 F,M; G09-54-P59 F,M)
 Llorens, Eugenio (G12-15-P133 F)
 Llorente, Vicenta (G17-23-P114 F)
 Lloret, Ana (G02-43-P44 F)
 Llovera, Marta (G18-22-P141 F; G18-26-P145 F)
 Lobato-Fernández, César (G12-10-P128 F)
 Locascio, Antonella (G06-09-P91 F,M)
 Loessner, Martín (G05-13-P7 F)
 Loidl, César F. (G13-11-P142 F)
 López, Ellie Anne (G15-20-P79 M)
 López, Icíar P (G02-19-P20; G02-30-P31 F)
 López, María (G16-14-P88 F)
 López, María Paula (G12-09-P127)
 López, Miguel (G17-04-OS M)
 López, Susana (G18-41-P160)
 López Bellón, Sara (G17-30-P121 F)
 López Cara, Luisa Carlota (G05-18-P12)
 López Cortajarena, Aitziber (G07-09-P93 F,M)
 López de Ceballos, María (G13-08-P139)
 López Gutiérrez, Celia (G14-11-P168 F)
 López Miranda, Santiago (G18-42-P162)
 López-Blau, Cristina (S3.1-3)
 López-Contreras, Andres J (S3.2-2)
 López-Corcuera, Beatriz (G11-07-P60 F)
 López-Costa, Juan J. (G13-11-P142 F)
 López-Domenech, Sandra (G15-09-P68)
 López-Gallardo, Ester (G02-14-P15 F,M; G02-17-P18 F,M)
 López-Gallego, Fernando (G07-01-OI)
 López-Grueso, María José (G15-11-P70 F,M)
 López-Hidalgo, Cristina (G06-04-OS)
 López-Hoyos, Marcos (G02-22-P23 F,M)
 López-Iniesta, María Jose (G02-55-P56 F)
 López-Lozano, Antonio (G12-07-P125; G12-13-P131 F)
 López-Martínez, Elena (G07-09-P93 F,M)
 López-Maury, Luis (G12-12-P130)
 López-Oliva, María Elvira (G17-08-P99; G17-10-P101 F,M)
 López-Palomar, Lucía (G01-02-P2; G18-24-P143 F,M)
 López-Pastor, Andrea R (G02-73-P74 F,M)
 López-Perrote, Andrés (G09-42-P47 F,M)
 López-Plana, Anna (G02-58-P59)
 López-Robles, Carlos (G09-27-P32 F,M)
 López-Ruano, Guillermo (G18-09-P128 F,M)
 Lorente, María del Mar (G01-02-P2; G18-04-OS M)
 Losada, Ana (S2.1-2)
 Lovat, Penny (G18-04-OS M)
 Loyola, Alejandra (PL04)
 Lucas, José J. (PL02)
 Lucena, Silvia R. (G02-16-P17 F,M; G18-12-P131; G18-15-P134 F,M; G18-33-P152 F)
 Lucena Blas, Silvia (G02-39-P40)
 Luengo, Yurena (G07-05-OS M)
 Luengo-Gutiérrez, Lucía (G13-16-P147 F,M)
 Lugalde, Javier (G17-32-P123 F,M)
 Luna, Jorge (G18-11-P130 F,M)
 Lupiáñez, José Antonio (G01-06-P6 F; G01-07-P7 F)
 Luque, Irene (G09-28-P33 F,M)
 Luque, María (G01-07-P7 F)
 Luque-Almagro, Víctor M. (G12-08-P126; G12-05-OS)
 Luscombe, Nicholas M. (G13-02-OI)
 Macchia, Alice (G05-16-P10 F,M)
 Macías de Plasencia, Guillermo (G02-72-P73)
 Madariaga-Marcos, Julene (G09-06-OS; G09-16-P21)
 Maeso, Ignacio (G03-02-OI)
 Maestro, David (G02-22-P23 F,M; G07-09-P93 F,M)
 Maestro Lavín, David (G07-10-P94 F,M)
 Maestro-López, Moisés (G09-45-P50 F)
 Magariños, Marta (G01-05-P5; G03-08-P77; G03-07-OS M)
 Maiques, Óscar (G01-01-P1 F,M)
 Majali, Alejandro (G02-37-P38)
 Majewski, Patrik (G02-73-P74 F,M)
 Malamouli, Melpomeni (G17-14-P105 F)
 Mallén-Ponce, Manuel J. (G12-11-P129)
 Malón, Diego (G02-31-P32 F,M)
 Mancino, Mario (G02-58-P59)
 Mansilla, Alicia (G05-06-OS M)
 Manso, Luis (G18-10-P129 F,M)
 Mantegazza, Francesco (G09-16-P21; G09-36-P41)
 Manzano, Anna (G08-22-P119 F; G08-23-P120 F; G17-34-P125 F; G17-35-P126 F,M)
 Manzano, Raúl (G10-02-OS M)
 Manzano, Sara (G02-48-P49 F; G18-05-OS M)

- Manzano-López, Javier (G16-04-OS M)
 March, Michael (G02-42-P43 F,M)
 Marchal, Juan Antonio (G02-74-P75)
 Marchena, Miguel (G13-07-OS M)
 Marco-Marín, Clara (G02-49-P50 F; G09-43-P48)
 Marcos, Alberto (G13-15-P146)
 Marcos-Díaz, Ana (G13-26-P157)
 Marcos-Silva, Marina (G09-30-P35; G16-16-P90)
 Marfany, Gemma (G02-55-P56 F)
 Mari, Bartolome (G15-17-P76)
 Maríano-Juárez, Lorenzo (G08-12-P109)
 Marín-Baquero, Mikel (G04-04-P81 F,M; G16-17-P91 F,M)
 Marín-García, Patricia (G14-08-P165; G14-01-OI)
 Marín-González, Alberto (G04-04-P81 F,M; G16-17-P91 F,M)
 Marín-Toral, Laura (G12-07-P125)
 Marina, Alberto (G09-03-OS; G09-38-P43 F)
 Marletaz, Ferdinand (G03-02-OI)
 Marqués, María del Carmen (G06-09-P91 F,M)
 Márquez, Antonio J. (G12-02-OI)
 Marrano, Claudia A (G09-36-P41)
 Marrero, Isabel (G08-10-P107)
 Martell, Henry (G04-02-OS M)
 Martín, María Elena (G18-18-P137 F,M; G18-32-P151 F,M)
 Martín, María Ángeles (G17-08-P99; G17-10-P101 F,M)
 Martín, Pilar (G18-02-OI)
 Martín, Remy (G09-39-P44)
 Martín, Rosa M. (G02-16-P17 F,M)
 Martín Santamaría, Sonsoles (G05-03-OS; G09-18-P23)
 Martín Sanz, Paloma (G02-10-P11)
 Martín-Duque, Pilar (G02-46-P47 F,M)
 Martín-García, Ana (G02-72-P73)
 Martín-González, Alejandro (G04-04-P81 F,M; G09-13-P18 F,M; G16-17-P91 F,M)
 Martín-Hidalgo, Antonia (G02-08-P9 F,M)
 Martín-Hidalgo, David (G10-07-P124)
 Martín-Martín, Natalia (G05-16-P10 F,M; G17-25-P116 F,M)
 Martín-Martín, Yolanda (G02-49-P50 F)
 Martín-Merino, Manuela (G04-01-OI)
 Martín-Orozco, Rosa M. (G02-39-P40; G18-12-P131; G18-15-P134 F,M; G18-33-P152 F)
 Martín-Taboada, Marina (G02-27-P28 F,M)
 Martínez, Alfredo (G13-11-P142 F)
 Martínez, Ana (G05-06-OS M)
 Martínez, Ana María (G07-08-P92)
 Martínez, Carmen (G02-27-P28 F,M)
 Martínez, J. Alfredo (G17-11-P102)
 Martínez, Manuel (G06-01-OI)
 Martínez, Marcos (G13-29-P160 F,M)
 Martínez, Marta (G18-22-P141 F)
 Martínez, María José (G18-41-P160)
 Martínez, Paula (G02-35-P36 F)
 Martínez, Sergio (G16-18-P92)
 Martínez, Ángel T. (G07-06-OS)
 Martínez Blanco, Elena (G13-04-OS)
 Martínez de Iturrate, Paula (G14-06-P163 F,M)
 Martínez de Maraño, Aranzazu (G15-09-P68)
 Martínez Gómez, Jesus (G16-24-P98)
 Martínez Valverde, Ángela (G02-67-P68 F,M)
 Martínez-Calle, Marta (G11-01-OI)
 Martínez-Chantar, María Luz (PL06; G02-04-OS M; G18-27-P146 F)
 Martínez-Cignoni, Melanie Raquel (G17-20-P111; G17-21-P112; G17-22-P113; G17-24-P115)
 Martínez-Costa, Óscar (G08-01-OI)
 Martínez-del-Pozo, Álvaro (G11-02-OI)
 Martínez-Espinosa, Rosa María (G12-14-P132)
 Martínez-Gil, Luis (G11-10-P63)
 Martínez-González, José (G18-02-OI)
 Martínez-Heredia, Luis (G12-14-P132)
 Martínez-Irujo, Juan José (G15-03-OS)
 Martínez-Jiménez, María Isabel (G16-20-P94 F; G16-03-OS)
 Martínez-Lumbreras, Santiago (G09-47-P52)
 Martínez-López, Angélica (G01-02-P2)
 Martínez-Martín, Inés (G09-09-P14 F)
 Martínez-Palacián, Adoración (G02-33-P34 F)
 Martínez-Pérez, Enrique (S2.1-3)
 Martínez-Rodríguez, Sergio (G09-37-P42)
 Martínez-Ruiz, Antonio (G15-08-P67 F,M; G15-05-OS)
 Martínez-Salas, Encarnación (G16-12-P86 F)
 Martínez-Serna, Alejandra (G14-01-OI)
 Martínez-Taboada, Victor (G02-22-P23 F,M)
 Martínez-Torró, Carlos (G16-16-P90)
 Martínez-Vigara, María (G15-19-P78)
 Mártonfalvi, Zsolt (G09-19-P24 F,M)
 Mascaró, Catalina M. (G15-18-P77)
 Matamoras, Alejandra (G05-03-OS)
 Mateljak, Ivan (G07-13-P97 F,M)
 Matellán, Laura (G16-04-OS M)
 Mateos, David (G15-18-P77)
 Mateos, Judith (G02-60-P61)
 Mateos, Rosa María (G15-22-P81 F,M)
 Matheu, Ander (G02-63-P64 F,M)
 Matsuoaka, Leticia (G02-42-P43 F,M)
 Mayor, Federico (G02-56-P57 F,M; G18-27-P146 F; G18-31-P150; G18-36-P155; G18-38-P157; G18-40-P159 F,M; G18-43-P163 F; G18-44-P164 F)
 Mayor Menéndez, Federico (G18-37-P156)
 Mayán, María D. (G01-04-P4 F,M; G10-03-OS)
 Mazariegos, Marina S (G02-03-OS)
 Medina, Jose M (G05-14-P8 F; G18-30-P149 F)
 Medina, Patricia (G04-09-P86)
 Medina-Gómez, Gema (G02-27-P28 F,M)
 Megías-Roda, Elisabet (G18-25-P144 F,M)
 Mejuto González, Marta (G18-08-P127)
 Melendo, Marina (G17-14-P105 F; G17-04-OS M; G17-19-P110)
 Melero-Rubio, Yesica (G12-13-P131 F)
 Mena, Adriana (G16-21-P95 F,M)
 Méndez, Raúl (PL02)
 Méndez, Rebeca (G02-33-P34 F)
 Menéndez, Margarita (G05-13-P7 F)
 Mera, Paula (G17-14-P105 F; G17-15-P106 F,M; G17-04-OS M; G17-19-P110; G17-23-P114 F)
 Mercader, Josep (G08-11-P108)
 Merino, Jesus (G02-22-P23 F,M)
 Merino, Nekane (G09-28-P33 F,M)
 Mesa, P (G09-01-OI)
 Meseguer, Anna (G05-17-P11 F)
 Mestre, Daniela (G02-04-OS M)
 Mestre Congregado, Daniela (PL06)
 Mielu, Lidia Mirela (G02-16-P17 F,M; G02-46-P47 F,M)
 Miguens, Alba (G17-13-P104 F)
 Milagro, Fermin I. (G17-01-OI; G17-11-P102; G17-18-P109 F,M)
 Mills, Alberto (G04-03-OS)
 Milán, Marco (S3.1-2)
 Mingarro, Ismael (G11-10-P63)
 Minutti, Carlos M. (G18-29-P148)
 Mir, Joan Frances (G17-23-P114 F)
 Mirallas, Oriol (G02-36-P37 F)
 Miralles-Robledillo, Jose María (G12-14-P132)
 Miras Portugal, María Teresa (G13-12-P143; G13-13-P144; G18-17-P136 F)
 Mirra, Serena (G18-03-OS M)
 Miró, Lluïsa (G17-16-P107; G17-31-P122 F)
 Molina-Espeja, Patricia (G07-12-P96)
 Mondejar Parreño, Gemma (G02-07-P8 F)
 Monico, Andreia (G09-18-P23)
 Monje-Casas, Fernando (G16-08-P82 F; G16-04-OS M)
 Monllor, Paloma (G02-43-P44 F)
 Monsalve, Eva María (G18-41-P160)
 Monsalve, María (G15-08-P67 F,M; G15-12-P71; G15-13-P72; G15-14-P73; G15-07-OS M)
 Monserrat, Lorenzo (G02-13-P14)
 Monserrat, Margalida (G15-18-P77)
 Montalvo, María Gregoria (G03-09-P78 F,M)
 Montañez, María I. (G05-08-P2)
 Monte, M. Jesús (G11-06-OS)
 Monte, María J. (G02-06-OS)
 Monteiro, Hugo (G09-28-P33 F,M)
 Monterde, Beatriz (G02-20-P21 F)
 Montero, An (G03-11-P80)
 Montero, Ana (G10-06-P123 F)
 Montero, Juan Carlos (G18-07-OS M)
 Montero-Fernández, Carlos (G18-29-P148)
 Montes, Ruth (G11-11-P64)
 Montoliu, Lluís (G02-44-P45; G03-11-P80)
 Montoliu Gaya, Laia (G02-26-P27 F,M)
 Montoya, G. (G09-01-OI)
 Montoya, Julio (G02-14-P15 F,M; G02-15-P16 F,M; G02-17-P18 F,M; G02-18-P19 F,M)
 Mora, Alfonso (G17-03-OS M; G17-32-P123 F,M)
 Moracho, Natalia (G03-09-P78 F,M)
 Moragas, Núria (G02-58-P59)
 Morales, Albert (G02-69-P70)
 Moran, Sebastian (G16-09-P83)
 Morán Jiménez, María Josefa (G02-45-P46 F)
 Morant Ferrando, Brenda (G13-17-P148 F)
 Moranta, David (G13-22-P153)
 Moreno, Amalia (G02-31-P32 F,M)
 Moreno, Estefanía (G13-27-P158; G13-28-P159; G18-10-P129 F,M)
 Moreno, Sergio (G17-29-P120)
 Moreno, Thaidy (G02-20-P21 F)
 Moreno-Bueno, Gema (G18-10-P129 F,M)
 Moreno-del Álamo, María (G09-33-P38)
 Moreno-Herrero, Fernando (G04-04-P81 F,M; G09-06-OS; G09-13-P18 F,M; G09-16-P21; G09-17-P22; G16-17-P91 F,M)
 Moreno-Morcillo, María (G09-53-P58 F)
 Moreno-Pelayo, Miguel Ángel (G02-44-P45)
 Moreno-Vivián, Conrado (G12-08-P126; G12-05-OS)
 Moretó, Miquel (G17-16-P107; G17-31-P122 F)
 Morgado, Isabel (G02-60-P61)
 Morillo, Margarita (G09-44-P49)
 Morin, Matias (G02-44-P45)
 Morote, Juan (G05-17-P11 F)
 Morreale, Antonio (G04-03-OS)
 Morris, Ed (S2.2-1)
 Moses, ME (G09-01-OI)
 Mukhortava, Ann (G09-08-P13 F,M)
 Mulero, Victoriano (G02-38-P39 F,M)
 Mulet, José M. (G06-09-P91 F,M)
 Munk, Stephanie (S3.2-2)
 Munoz-Rodriguez, Jose Ramon (G13-15-P146)
 Muñoz, Alberto (G02-09-P10 F,M; G02-23-P24 F,M)
 Muñoz, Diego (G03-11-P80)
 Muñoz, Javier (G02-03-OS; G02-32-P33 F,M)

- Muñoz, Pedro (G02-22-P23 F,M)
 Muñoz-Barrera, Marta (G16-08-P82 F)
 Muñoz-Guardiola, Pau (G18-25-P144 F,M)
 Muñoz-Hernández, Hugo (G09-25-P30 M)
 Muñoz-Soriano, Verónica (G02-40-P41 F,M)
 Muñoz-Sáez, Emma (G03-09-P78 F,M; G08-06-P103 F,M)
 Murciano, Javier (G09-28-P33 F,M)
 Murga, Cristina (G02-56-P57 F,M)
 Murga, Matilde (G02-05-OS; G02-34-P35 F,M)
 Murillo-Cuesta, Silvia (G02-66-P67)
 Nácher-Vázquez, Montserrat (G14-06-P163 F,M; G14-07-P164)
 Nasri, Moncef (G17-09-P100)
 Natalello, Antonino (G09-36-P41)
 Navarro, Pilar (PL02)
 Navarro-Sabaté, Aurea (G17-34-P125 F; G17-35-P126 F,M)
 Neira, Jose Luis (G09-37-P42)
 Nemours, Stephane (G05-17-P11 F)
 Neto, Ana (G03-05-OS)
 Neves, María (G18-36-P155)
 Nguewa, Paul (G14-09-P166; G14-10-P167)
 Nguyen, Kenny (G02-42-P43 F,M)
 Nicolás Villaescusa, Francisco José (G18-42-P162)
 Niell, Núria (G02-09-P10 F,M)
 Nieto, M. Ángela (S3.1-3)
 Nieto, Marta (G03-01-OI)
 Nieto-González, José L. (PL02)
 Nieto-Jiménez, Cristina (G18-07-OS M)
 Nieto-Soler, María (G02-60-P61)
 Nieva, José L (G11-04-OS)
 Nieva-Zuluaga, Ane (PL06; G02-04-OS M)
 Niklas, Karl J. (G04-05-P82)
 Nikolic, Ivana (G17-03-OS M)
 Niño Herrera, Sujey Abigail (G07-17-P101 F,M)
 Noerholm, Mikkel (G02-03-OS)
 Nogueiras, Rubén (G17-32-P123 F,M)
 Noguera-Castells, Aleix (G02-58-P59)
 Nogués, Laura (G02-03-OS; G18-36-P155)
 Norris, Erin H. (G13-26-P157)
 Northall, Sarah (G09-13-P18 F,M)
 Notario, Laura (G02-16-P17 F,M)
 Notario Muñoz, Laura (G16-06-OS M)
 Novillo, Apolonia (G02-31-P32 F,M; G08-09-P106)
 Nueda, María Luisa (G18-41-P160)
 Nuevo Tapioles, Cristina (G02-41-P42 F)
 Nuncia-Cantarero, Miriam (G18-07-OS M)
 Núñez, Rafael (G09-11-P16)
 Nuñez GalindoNNE, Proteomics (G17-27-P118)
 Nuñez-García, Maitane (PL06; G02-04-OS M)
 Nuñez Delicado, Estrella (G18-42-P162)
 O'Connor, José Enrique (G02-50-P51; G02-51-P52; G18-16-P135)
 O'Loughlen, Ana (G05-10-P4 F,M)
 Ocaña, Alberto (G18-07-OS M)
 Ochoa, David (G18-28-P147 F,M)
 Ochoa, Rodrigo (G02-25-P26 F,M; G02-29-P30 F,M; G13-11-P142 F)
 Olafsson, Elias (G02-42-P43 F,M)
 Olaya-Abril, Alfonso (G12-05-OS)
 Olek, Robert (G15-17-P76)
 Oliver, Jordi (G08-17-P114; G08-18-P115; G15-19-P78; G17-26-P117)
 Oliver, Paula (G08-11-P108; G08-16-P113)
 Olmeda, Bárbara (G11-01-OI)
 Olmeda, Héctor (G02-08-P9 F,M)
 Olmo, Rosa (G07-08-P92)
 Onetti, Yara (G18-13-P132)
 Orea-Soufi, Alba (G18-04-OS M)
 Orfao, Alberto (G10-02-OS M)
 Orquín-González, Miguel Ángel (G02-50-P51; G02-51-P52; G18-16-P135)
 Ortega, Alba (G18-40-P159 F,M)
 Ortega, Esperanza (G16-18-P92)
 Ortega, Felipe (G13-12-P143; G13-13-P144)
 Ortega, Gabriel (G09-15-P20)
 Ortega, N. (G05-09-P3; G08-05-P102)
 Ortega de la O, Felipe (G18-17-P136 F)
 Ortega Muñoz, Maríano (G07-16-P100 F,M)
 Ortega-Martínez, Pablo (G12-11-P129)
 Ortega-Muelas, Marta (G02-75-P76)
 Ortega-Sánchez, Esperanza (G09-37-P42)
 Ortega-Sanchis, Sheila (G18-11-P130 F,M)
 Ortega-Senovilla, Henar (G17-33-P124)
 Ortigosa, Francisco (G06-06-P88; G12-10-P128 F)
 Ortiz, Belén (G18-38-P157)
 Ortiz Romero, Pablo L (G02-03-OS)
 Ortíz-Fernández, Belén (G02-57-P58)
 Osada, Jesus (G17-09-P100)
 Osk Snorraddottir, Asbjorg (G02-42-P43 F,M)
 Oteo, José A. (G17-05-OS)
 Pablos, Jose Luis (G02-22-P23 F,M)
 Padilla, C. Alicia (G15-11-P70 F,M)
 Páez de la Cadena Tortosa, María (G16-09-P83; G16-11-P85)
 Pagano, Eduardo (G06-05-P87)
 Pajares, María Ángeles (G05-08-P2; G09-18-P23)
 Pal, Mohinder (G09-54-P59 F,M)
 Palacios, D. (G05-09-P3; G08-05-P102)
 Palacios, Julia (G18-31-P150)
 Palacios, Núria (G02-39-P40)
 Palacios-García, Julia (G18-37-P156)
 Palacios-Ortega, Juan (G11-02-OI)
 Palacios-Zambrano, Sara (G02-47-P48)
 Palacín, Manuel (G02-71-P72)
 Palanca, Ana (G07-09-P93 F,M)
 Palanca, Ana R (G02-22-P23 F,M)
 Palanca Cuñado, Ana (G07-10-P94 F,M)
 Palao, Nerea (G02-48-P49 F; G18-05-OS M)
 Palazuelos, Javier (G13-06-OS)
 Palomo-Irigoyen, Marta (G02-04-OS M)
 Palou, Andreu (G08-08-P105; G17-06-OS)
 Palsdottir, Astridur (G02-42-P43 F,M)
 Pal'ove-Balang, Peter (G12-02-OI)
 Pamplona, Reinald (G15-08-P67 F,M)
 Pandiella, Atanasio (G18-07-OS M)
 Panebianco, Antonella (G16-11-P85)
 Paniagua Herranz, Lucía (G13-12-P143; G13-13-P144)
 Parcerisas, Antoni (G18-03-OS M)
 Pardo, Beatriz (G13-10-P141 F,M)
 Pardo, Felipe (G13-15-P146)
 Paricio, Núria (G02-40-P41 F,M)
 Pariente, Ana (G02-25-P26 F,M; G02-29-P30 F,M; G13-11-P142 F)
 Parikshak, Neelroop N. (PL02)
 Parra-Pérez, Alberto Manuel (G01-06-P6 F; G01-07-P7 F)
 Parras, Alberto (PL02)
 Pascual, María (G13-09-P140)
 Pascual-Serra, Raquel (G02-75-P76)
 Passmore, Lori A. (S2.2-3)
 Pastor, Sandra (G12-01-OI)
 Pastor-Pareja, Jose Carlos (S1.2-1)
 Pastor-Soler, Sandra (G12-20-P138)
 Pastrana, César L. (G09-06-OS; G09-17-P22)
 Patel, Gaurangkumar (G15-13-P72; G15-07-OS M)
 Paul, B (G09-01-OI)
 Paul Daniel, E.J. (G09-07-OS)
 Payá, Gloria (G09-41-P46; G12-01-OI; G12-16-P134; G12-17-P135)
 Peigneux Navarro, Ana (G05-18-P12)
 Peinado, José (G15-11-P70 F,M)
 Peinado Selgas, Hector (G02-03-OS)
 Pejenaute, Álvaro (G15-03-OS; G17-18-P109 F,M)
 Pelaez, Rafael (G02-25-P26 F,M; G02-29-P30 F,M; G13-11-P142 F)
 Pelaz, Sara G (G05-14-P8 F; G18-30-P149 F)
 Peleato, María L. (G12-19-P137 F)
 Pellegrino, Renata (G02-53-P54 F,M)
 Penadés, José Rafael (G09-03-OS)
 Penela, Petronila (G18-27-P146 F; G18-36-P155; G18-38-P157; G18-43-P163 F; G18-44-P164 F)
 Peña, María (G02-27-P28 F,M)
 Peña Guerrero, José (G14-09-P166; G14-10-P167)
 Peñafiel, Rafael (G09-40-P45 F,M)
 Peñagarikano, Olga (PL02)
 Peragón, Juan (G01-06-P6 F)
 Pereira, Mar (G02-68-P69 F)
 Pérez, Cecilia (G06-05-P87)
 Pérez, Elena (G07-08-P92)
 Pérez, Jesús (G09-52-P57 F,M)
 Pérez, Judit (G17-13-P104 F)
 Pérez, Marisa (G06-05-P87)
 Pérez, M^a Dolores (G12-05-OS)
 Pérez, Ruben (G04-04-P81 F,M; G16-17-P91 F,M)
 Pérez Acebron, Sergio (S3.1-1)
 Pérez Losada, Jesús (G02-72-P73; G10-01-OI)
 Pérez Morgado, María Isabel (G18-32-P151 F,M)
 Pérez-Benavente, Susana (G02-45-P46 F; G14-08-P165; G14-01-OI)
 Pérez-Bosque, Anna (G17-16-P107; G17-31-P122 F)
 Pérez-Cañadillas, Jose Manuel (G09-47-P52)
 Pérez-Cerezales, Serafín (G02-08-P9 F,M)
 Pérez-Delgado, Carmen M. (G12-02-OI)
 Pérez-Fernández, Alejandro (G18-09-P128 F,M; G18-35-P154 F)
 Pérez-Fernández, Ruth (G05-06-OS M)
 Pérez-Gil, Jesús (G11-01-OI; G11-13-P66)
 Pérez-Gómez, Eduardo (G18-10-P129 F,M)
 Pérez-Jiménez, Amalia (G01-06-P6 F; G01-07-P7 F)
 Pérez-Jiménez, Raúl (G07-02-OI)
 Pérez-Matute, Patricia (G17-05-OS)
 Pérez-Mejías, Gonzalo (G09-04-OS)
 Pérez-Oliva, Ana B. (G02-38-P39 F,M)
 Pérez-Ortín, José Enrique (G16-21-P95 F,M)
 Pérez-Pérez, Yolanda (G06-08-P90)
 Pérez-Rigueiro, José (G09-10-P15)
 Pérez-Sala, Dolores (G05-08-P2; G09-18-P23)
 Pérez-Sala, Álvaro (G02-25-P26 F,M; G02-29-P30 F,M; G13-11-P142 F)
 Pérez-Sen, Raquel (G13-12-P143; G13-13-P144)
 Peris-Cuesta, Arnau (G09-41-P46)
 Perona, Almudena (G04-03-OS)
 Perry, Malcolm (G03-02-OI)
 Perugorria Montiel, M^a Jesús (G02-01-OI)
 Pesini, Alba (G02-15-P16 F,M)
 Pich, Óscar Q. (G09-30-P35)
 Pichel, José G. (G02-19-P20; G02-30-P31 F)
 Picher, Ángel (G07-15-P99 F)
 Picó, Catalina (G08-08-P105)
 Picó, Sara (PL02)
 Piedrafitra, Lidia (G18-25-P144 F,M)
 Pilar-Izquierdo, M.C. (G05-09-P3; G08-05-P102)
 Pimenta, Carolina (G08-22-P119 F)
 Pimenta-Lopes, Carolina (G09-24-P29 F)
 Pineda, Mónica (G06-05-P87)
 Pinet, Montserrat (G17-13-P104 F)

- Pinto Díez, Celia (G18-32-P151 F,M)
 Pintor, Aránzazu (G17-03-OS M)
 Pintor-Toro, Jose A (G18-23-P142)
 Pire, Carmen (G12-14-P132)
 Piñeiro-Hermida, Sergio (G02-19-P20; G02-30-P31 F; G02-35-P36 F)
 Piñol, Jaume (G09-30-P35; G16-16-P90)
 Pitch, Óscar Q. (G16-16-P90)
 Pladevall-Morera, David (S3.2-2)
 Planell, Núria (G16-09-P83)
 Plaxco, Kevin W. (G09-15-P20)
 Plesselová, Simona (G07-16-P100 F,M)
 Polo, Javier (G17-16-P107; G17-31-P122 F)
 Polo-Generelo, Salvador (G18-23-P142)
 Pons, Antoni (G15-17-P76; G15-18-P77)
 Pons, Daniel G (G08-17-P114; G08-18-P115; G08-18-P115; G15-19-P78; G17-26-P117)
 Ponte, Mariana (G08-13-P110)
 Porras, Almudena (G02-48-P49 F; G02-53-P54 F,M; G02-58-P59; G18-05-OS M)
 Portero, Manuel (G15-08-P67 F,M)
 Pozo, María José (G06-05-P87)
 Pricolo, María Rosaria (G02-13-P14)
 Prieto, Carlos (G02-72-P73)
 Prieto, Estefanía (G13-18-P149)
 Prieto, Ignacio (G15-08-P67 F,M)
 Prieto, Jesus (G11-06-OS)
 Prieto, Patricia (G02-21-P22 F)
 Prieto-Bermejo, Rodrigo (G18-09-P128 F,M)
 Proenza, Ana María (G02-56-P57 F,M; G17-20-P111; G17-21-P112; G17-22-P113; G17-24-P115)
 Proleón, Alex (G09-49-P54)
 Prunotto, Alessio (G05-13-P7 F)
 Pucciarelli, Graciela (G09-38-P43 F)
 Puertas, Guillermo (G13-10-P141 F,M)
 Pujana Vaquerizo, Mikel (G17-25-P116 F,M)
 Pulido, Sara (G01-05-P5; G03-07-OS M)
 Puyet, Antonio (G02-45-P46 F; G14-08-P165; G14-01-OI)
 Quandt, Eva (G08-13-P110)
 Queipo, María José (G13-12-P143; G13-13-P144)
 Quero, Javier (G17-09-P100)
 Querol, Enrique (G09-30-P35; G16-16-P90)
 Quindós Varela, María (G02-28-P29 F)
 Quintana-Cabrera, Ruben (G13-16-P147 F,M)
 R. Macias, Rocio I. (G02-06-OS)
 Rada Iglesias, Álvaro (G16-01-OI)
 Rada, Patricia (G02-67-P68 F,M)
 Rafael Vidal, Carlos (G16-11-P85)
 Ragucci, Sara (G09-32-P37; G09-34-P39)
 Ramírez, Ana (G02-16-P17 F,M; G18-33-P152 F)
 Ramirez, Laura (G02-27-P28 F,M)
 Ramírez, María J. (G15-03-OS)
 Ramírez de Molina, Ana (G05-14-P8 F)
 Ramírez-Sánchez, Ana (G18-12-P131; G18-15-P134 F,M)
 Ramon, Eva (G09-44-P49)
 Ramón-Maiques, Santiago (G09-53-P58 F)
 Ramos, Cristina (G16-14-P88 F)
 Ramos, Edurne (G02-64-P65 F,M; G02-65-P66 F,M)
 Ramos, María del Pilar (G17-17-P108 F,M; G17-02-OI)
 Ramos, Paula (G18-27-P146 F)
 Ramos, Sonia (G17-08-P99; G17-10-P101 F,M)
 Ramos Alvarez, M^a Pilar (G02-37-P38)
 Ramos Roda, Alejandro (G02-26-P27 F,M)
 Ramos-Gómez, S. (G05-09-P3; G08-05-P102)
 Ramos-Molina, Bruno (G09-40-P45 F,M)
 Ramsay, Ewan P. (S2.2-1)
 Rastrojo, Alberto (G14-05-P162)
 Ratera, Mercè (G09-30-P35)
 Razzagui, Neda (G09-44-P49)
 Rebollo, Elena (G18-03-OS M)
 Recalde-Percas, Lerie (G02-58-P59)
 Reche, Pedro A. (G14-01-OI)
 Reche Pérez, Francisco José (G07-16-P100 F,M)
 Recio-Fernández, Emma (G17-05-OS)
 Redondo, Jennifer (G16-15-P89)
 Redondo Antón, Jennifer (G16-06-OS M)
 Redrejo-Rodríguez, Modesto (G08-01-OI)
 Reglero, Clara (G18-27-P146 F; G18-38-P157)
 Rego, Alejandro (G17-05-OS)
 Relañó, Marta (G18-02-OI)
 Requejo-Aguilar, Raquel (G15-11-P70 F,M)
 Requejo-Isidro, José (G11-04-OS)
 Requena, Jose María (G14-05-P162)
 Resch-Beusher, Mónica (G13-18-P149)
 Reverter, David (G09-05-OS; G09-21-P26 F)
 Revilla, Carlos (G02-20-P21 F)
 Rey, María-Dolores (G06-04-OS)
 Rey-Funes, Manuel (G13-11-P142 F)
 Reynés, Bàrbara (G08-16-P113)
 Rezola, Ricardo (G05-04-OS)
 Ribas, Catalina (G18-31-P150; G18-40-P159 F,M)
 Ribas Núñez, Catalina (G18-37-P156)
 Ribatallada Soriano, Didac (G05-17-P11 F)
 Ribeiro, João Meireles (G09-26-P31)
 Ribeiro, Mariana (G02-36-P37 F)
 Ribot, Joan (G08-08-P105; G17-06-OS)
 Ricco, Natalia (G02-36-P37 F; G08-13-P110)
 Rice, Austin (G07-13-P97 F,M)
 Richards, Allison T. (G13-26-P157)
 Ripollés, Edna (G02-40-P41 F,M)
 Risso, Valeria (G07-11-P95)
 Risueño, María-Cármén (G06-08-P90)
 Rivas, Luis (G14-06-P163 F,M; G14-07-P164)
 Rivas, Sergio (G02-24-P25)
 Rivas, Verónica (G18-27-P146 F; G18-38-P157; G18-43-P163 F)
 Rivas-Pardo, Jaime Andrés (G09-19-P24 F,M)
 Rivera, María Montserrat (G02-70-P71)
 Rivera-Calzada, Ángel (G09-42-P47 F,M)
 Rivera-de-Torre, Esperanza (G11-02-OI)
 Rivero, Mikel (G12-04-OS)
 Robinson, Carol (S2.2-3)
 Robledo, Mercedes (G02-03-OS)
 Roca, Pilar (G08-17-P114; G08-18-P115; G15-19-P78; G17-26-P117)
 Rocha, Milagros (G15-09-P68)
 Rocha Formiga, Fabio (G14-09-P166)
 Roche, Olga (G02-75-P76)
 Rodolosse, Annie (PL02)
 Rodrigues, Joaquim Rui (G09-26-P31)
 Rodriguez, Edith (G09-48-P53)
 Rodriguez, Ignacio (G13-26-P157)
 Rodriguez, Miguel (G13-15-P146)
 Rodriguez, Pilar (G15-20-P79 M)
 Rodriguez, Sandra (G16-15-P89)
 Rodríguez, Adrián (G08-11-P108)
 Rodríguez, Amaia (G17-23-P114 F)
 Rodríguez, Ana M. (G08-08-P105; G17-06-OS)
 Rodríguez, Cristina (G13-18-P149; G13-19-P150 F,M; G18-02-OI)
 Rodríguez, Esperanza Macarena (G02-64-P65 F,M)
 Rodríguez, J. Luis (G08-03-OI)
 Rodríguez, Macarena (G02-65-P66 F,M)
 Rodríguez, María Elena (G17-03-OS M)
 Rodríguez, Rubén (G17-29-P120)
 Rodríguez, Susana (G16-23-P97)
 Rodríguez Belmonte, Esther (G02-28-P29 F)
 Rodriguez de la Rosa, Lourdes (G01-05-P5; G02-44-P45; G02-66-P67; G18-21-P140)
 Rodríguez Gil, Joan Enric (G02-70-P71)
 Rodríguez López, Sandra (G17-28-P119 F; G17-30-P121 F)
 Rodríguez Navarro, Susana (G16-24-P98)
 Rodríguez Peralto, Jose Luis (G02-03-OS)
 Rodríguez-Berrocal, Francisco Javier (G16-09-P83; G16-11-P85)
 Rodríguez-Cobos, Javier (G02-54-P55 F)
 Rodríguez-Fernández, Lucía (G02-57-P58)
 Rodríguez-González, Inés (G09-31-P36)
 Rodríguez-Herrero, Verónica (G12-01-OI; G12-16-P134)
 Rodríguez-Martín, Beatriz (G08-12-P109)
 Rodríguez-Martín, Iván (G03-09-P78 F,M)
 Rodriguez-Munoz, María (G18-13-P132)
 Rodríguez-Ruiz, Lola (G02-38-P39 F,M)
 Rodríguez-Ruiz, Mar (G13-28-P159)
 Rodríguez-Salas, Núria (G02-54-P55 F)
 Rodríguez-Torres, Ana María (G18-08-P127)
 Rodríguez-Vidal, Juan F. (G02-38-P39 F,M)
 Rodriguez-Yoldi, M^a Jesus (G17-09-P100)
 Roel-Touris, Jorge (G04-07-P84 M)
 Rojas, Adriana (G09-27-P32 F,M)
 Rojas, Ana M. (G04-09-P86)
 Rojas, José Antonio (G06-05-P87)
 Rojo, Ana I. (G08-01-OI)
 Roldán, Miguel (G12-11-P129)
 Roldán, M^a Dolores (G12-08-P126; G12-05-OS)
 Román, José L. (G02-16-P17 F,M)
 Román, José Luis (G18-12-P131; G18-15-P134 F,M; G18-33-P152 F)
 Román Fernández, Jose Luis (G02-39-P40)
 Romano-Moreno, Miguel (G09-27-P32 F,M)
 Romero, Ainoa (G12-09-P127)
 Romero, Luis C. (G06-07-P89)
 Romero, Marta R. (G02-06-OS)
 Romero, Miguel (G09-27-P32 F,M)
 Romero de Avila, María José (G18-41-P160)
 Romero-Lorca, Alicia (G02-31-P32 F,M)
 Romero-Macías, Juan-Ramón (G02-75-P76)
 Romo-González, Marta (G02-59-P60 F,M; G15-04-OS M)
 Roncero, César (G02-33-P34 F)
 Ros, M. Piedad (G04-03-OS)
 Ros, Manuel (G02-27-P28 F,M)
 Rosell, Mireia (G04-02-OS M)
 Rosell-Cardona, Cristina (G17-31-P122 F)
 Rovira-Llopis, Susana (G15-09-P68)
 Roy, Rosa (G10-05-P122)
 Rubio, Carmen (G15-08-P67 F,M)
 Rubio, Jose M. (G14-01-OI)
 Rubio, Lourdes (G06-09-P91 F,M)
 Rubio, Vicente (G02-49-P50 F; G09-43-P48)
 Rubio, Virginia (G15-10-P69)
 Rubio-Longás, Carlota (G02-73-P74 F,M)
 Rueda, Andrés Mauricio (G07-11-P95)
 Rufino-Palomares, Eva Encarnación (G01-06-P6 F; G01-07-P7 F)
 Ruiz, Félix (G02-68-P69 F)
 Ruiz, Gloria (G02-74-P75)
 Ruiz, María del Carmen (G13-29-P160 F,M)
 Ruiz, Pablo (G15-22-P81 F,M)
 Ruiz de Gauna, Mikel (PL06; G02-04-OS M)
 Ruiz del Rio, Jorge (G07-09-P93 F,M; G07-10-P94 F,M; G02-22-P23 F,M)
 Ruiz-Cabello, Jesus (G13-26-P157)
 Ruiz-Hidalgo, María-José (G02-75-P76)
 Ruiz-Larrea, M. Begoña (G15-08-P67 F,M)
 Ruiz-Marcos, Francisco (G02-75-P76)
 Ruiz-Martínez, Carlos (G02-19-P20)
 Ruiz-Mateos, Beatriz (G15-22-P81 F,M)
 Ruiz-Pesini, Eduardo (G02-14-P15 F,M; G02-15-P16 F,M; G02-17-P18 F,M; G02-18-P19 F,M)
 Ruiz-Sanz, José Ignacio (G15-08-P67 F,M)

- Rujas, Edurne (G11-04-OS)
 Rutkowski, Piotr (G02-03-OS)
 Sabariego-Menjíbar, Elena (G17-28-P119 F; G17-30-P121 F)
 Sabio, Guadalupe (PLP03; G17-03-OS M; G17-32-P123 F,M)
 Sacristán, Silvia (G18-18-P137 F,M)
 Sáenz de Buruaga, Beatriz (G09-23-P28)
 Saenz de Urturi, Diego (PL06; G02-04-OS M)
 Sáez, L. (G05-09-P3)
 Sáez, Lara P. (G12-08-P126; G12-05-OS)
 Sahrawy, Maríam (G06-05-P87)
 Saiardi, Adolfo (G02-68-P69 F)
 Saiz, Almudena (G05-06-OS M)
 Saiz-Ladera, Cristina (G18-04-OS M)
 Salaberry, Eduardo (G15-17-P76)
 Salas, Gorka (G07-05-OS M)
 Salazar-Roa, María (G18-04-OS M)
 Salerno, Domenico (G09-36-P41)
 Salgado, Ana (G18-18-P137 F,M)
 Saligram, B (G09-01-OI)
 Salillas, Sandra (G09-23-P28)
 Salinas, Laura (G02-64-P65 F,M; G02-65-P66 F,M)
 Salto González, Rafael (G07-16-P100 F,M; G18-45-P165 F)
 Salvador, Javier (G17-23-P114 F)
 Salvador, Nélida (G01-02-P2; G18-04-OS M)
 Samper, Barbara (G02-36-P37 F)
 San Feliciano, Arturo (G14-07-P164)
 San Martín Pérez, Estefania (G16-10-P84 F,M)
 San Segundo, Pablo (G10-06-P123 F)
 Sánchez, Anibal (G13-06-OS)
 Sánchez, Aránzazu (G02-33-P34 F; G02-48-P49 F; G02-67-P68 F,M)
 Sánchez, Cristina (G08-22-P119 F; G18-10-P129 F,M)
 Sánchez, Eladio F. (G09-51-P56)
 Sánchez, Gentzane (G13-25-P156)
 Sánchez, José Manuel (G07-11-P95)
 Sánchez, Juana (G08-16-P113)
 Sánchez, Maricruz (G10-06-P123 F)
 Sánchez, Marina P. (G13-25-P156)
 Sánchez, María Gracia (G17-17-P108 F,M)
 Sánchez, Mayka (G02-71-P72)
 Sánchez, Pedro Luis (G02-72-P73)
 Sánchez, Pilar (G16-18-P92)
 Sánchez de Blas, Beatriz (G02-06-OS)
 Sánchez González, Cristina (G02-41-P42 F)
 Sánchez Jaut, Sandra (G02-45-P46 F)
 Sánchez Prieto, Manuel (G11-06-OS)
 Sánchez Redondo, Sara (G02-03-OS)
 Sánchez-Alba, Lucía (G09-30-P35; G16-16-P90)
 Sánchez-Barrena, María José (G05-06-OS M)
 Sánchez-Blazquez, Pilar (G18-13-P132)
 Sánchez-Burgos, Laura (G02-32-P33 F,M)
 Sánchez-Camacho, Cristina (G03-09-P78 F,M)
 Sánchez-Cano, Carlos (G07-09-P93 F,M)
 Sánchez-Cruz, Alonso (G13-07-OS M)
 Sánchez-Díaz, Raquel (G18-02-OI)
 Sánchez-Díez, Marta (G03-11-P80)
 Sánchez-Eugenia, Rubén (G11-04-OS)
 Sánchez-Gallego, Raul (G01-07-P7 F)
 Sánchez-García, Sergio (G02-21-P22 F)
 Sánchez-González, Cristina (G09-09-P14 F)
 Sánchez-González, Javier (G13-26-P157)
 Sánchez-Guijo, Fermín (G02-59-P60 F,M; G18-09-P128 F,M)
 Sánchez-Gómez, Francisco J. (G05-08-P2)
 Sánchez-Hernández, David (G03-10-P79; G03-06-OS)
 Sánchez-Madrid, Francisco (G18-02-OI)
 Sánchez-Matarredona, Laura (G12-18-P136)
 Sánchez-Medina, Pilar (G09-37-P42)
 Sánchez-Morán, Irene (G01-03-P3 M; G13-19-P150 F,M)
 Sánchez-Muñoz, Arancha (G18-04-OS M)
 Sánchez-Ortiz, David (G02-13-P14; G09-24-P29 F)
 Sánchez-Prieto, Ricardo (G02-75-P76)
 Sánchez-Puelles, José María (G05-12-P6)
 Sánchez-Pérez, Isabel (G02-66-P67; G08-01-OI)
 Sanchis, Daniel (G18-22-P141 F; G18-26-P145 F)
 Sanchíz, África (G14-05-P162)
 Sancho, Ferran (G07-06-OS)
 Sancho, Javier (G09-23-P28)
 Sanchon-Sánchez, Paula (G02-06-OS)
 Sandoval, Gustavo (G09-49-P54; G09-50-P55)
 Sansa, Alba (G13-01-OI)
 Santacana, María (G01-01-P1 F,M)
 Santamaría, David (S1.1-2)
 Santamaría, M. Estrella (G06-01-OI)
 Santamaría, Patricia G. (G05-11-P5)
 Santambrogio, Carlo (G09-36-P41)
 Santiago, Catalina (G08-06-P103 F,M)
 Santo-Domingo, Jaime (G17-27-P118)
 Santos, Andrea (G18-04-OS M)
 Santos, Guido (G04-06-P83 F; G08-04-OI)
 Santos, Vanesa (G05-11-P5)
 Santos-Galindo, María (PL02)
 Santos-López, Jorge (G02-54-P55 F)
 Santos-Pereira, José M. (G03-05-OS)
 Santoyo González, Francisco (G07-16-P100 F,M)
 Sanz, Ana B. (PL05)
 Sanz, Francisco José (G02-40-P41 F,M)
 Sanz, Julián (G02-33-P34 F)
 Sanz, María (G18-31-P150)
 Sanz Flores, María (G18-37-P156)
 Sanz-Moreno, Victoria (S1.1-3; G05-16-P10 F,M)
 Sarasa-Buisán, Cristina (G12-19-P137 F)
 Sastre-Serra, Jorge (G08-17-P114; G08-18-P115; G15-19-P78; G17-26-P117)
 Satrustegui, Jorgina (G13-10-P141 F,M; G18-19-P138 F)
 Scalschi, Loredana (G12-15-P133 F)
 Schaarsmidt, Jörg (G08-14-P111 F)
 Schaefer-Graf, Ute (G17-33-P124)
 Schaffitzel, Christiane (G09-39-P44)
 Schaub, Ariane (G05-16-P10 F,M)
 Sebastian, David (G17-07-OS)
 Sebastian-Pérez, Victor (G14-06-P163 F,M)
 Sebastio, Gianfranco (G02-71-P72)
 Sebastián, David (G17-23-P114 F)
 Sebesta, Marek (G16-13-P87 F)
 Segovia, José Carlos (G02-33-P34 F)
 Seifert, Wolfram (G09-50-P55)
 Seijo-Vila, Marta (G18-10-P129 F,M)
 Selinger, Leticia (G15-13-P72)
 Seoane Blanco, Mateo (G09-22-P27 F)
 Sequera, Celia (G02-48-P49 F; G18-05-OS M)
 Serna, Marina (G09-54-P59 F,M)
 Serna Gil, Marina (G09-42-P47 F,M)
 Serra Mir, Gabriel (G02-26-P27 F,M)
 Serra, Dolors (G17-14-P105 F; G17-15-P106 F,M; G17-04-OS M; G17-19-P110; G17-23-P114 F; G17-02-OI)
 Serra, Francisca (G08-08-P105)
 Serrano, Alba (G17-06-OS)
 Serrano, Ana (G07-06-OS)
 Serrano, Ester (G16-05-OS)
 Serrano, Esther (S1.2-3)
 Serrano, Joan (G16-23-P97)
 Serrano, Luis (G02-13-P14)
 Serrano, Manuel (G15-15-P74 F,M)
 Serrano, María Ángeles (G11-06-OS)
 Serrano, Rebeca (G10-07-P124)
 Serrano, Rosa (G02-35-P36 F)
 Serrano, Silvia (G02-64-P65 F,M; G02-65-P66 F,M)
 Serrano Martín, María Dolores (G16-23-P97)
 Serrano Sanz, Sandra (G02-41-P42 F)
 Serrano-Martínez, Ana (G02-75-P76)
 Serrano-Mollar, Anna (G02-22-P23 F,M)
 Serrato, Antonio Jesús (G06-05-P87)
 Serratosa, José M. (G13-25-P156)
 Sevilla, Emma (G12-19-P137 F)
 Sevilla Montero, Javier (G02-07-P8 F)
 Sevillano, Julio (G17-17-P108 F,M)
 Shen, Yang (G05-13-P7 F)
 Sierra, Marta (G17-13-P104 F)
 Sierra-Rodero, María Belen (G18-39-P158 F,M)
 Siles, Eva (G01-06-P6 F)
 Siles-Lucas, Mar (G14-04-OS)
 Simon, Helga (G08-22-P119 F; G17-34-P125 F)
 Simon-Molas, Helga (G08-23-P120 F; G17-35-P126 F,M)
 Simón-Martín, Fernando (G14-04-OS)
 Sirozh, Oleksandra (G13-03-OS)
 Skog, Johan (G02-03-OS)
 Sleiman, Patrick (G02-42-P43 F,M)
 Slotte, J. Peter (G11-02-OI)
 Sola Leyva, Alberto (G05-18-P12)
 Solana-Manrique, Cristina (G02-40-P41 F,M)
 Solas, Maite (G15-03-OS)
 Soldevilla, Beatriz (G02-54-P55 F)
 Soler, Rosa M. (G13-01-OI)
 Soler-Vázquez, M. Carmen (G17-14-P105 F; G17-15-P106 F,M; G17-04-OS M; G17-19-P110)
 Solis, Guillermo (G10-06-P123 F)
 Soliño, Manuel (G13-11-P142 F)
 Sommer, Martha (S2.3-3)
 Somoza, Álvaro (G05-12-P6; G07-05-OS M)
 Soriano, Eduardo (G18-03-OS M)
 Soriano, Paula María (G07-03-OS)
 Soriano, Pedro (G01-07-P7 F)
 Sot, Begoña (G07-05-OS M; G09-29-P34)
 Sotillo, Fernando (G02-71-P72)
 Sotillo, Javier (G14-04-OS)
 Stamatakis, Konstantinos (G18-20-P139 F,M)
 Stella, S (G09-01-OI)
 Stelling Férrez, Javier (G18-42-P162)
 Strickland, Sidney (G13-26-P157)
 Studer, Sabine (G05-05-OS)
 Suarez-Pindado, Alberto (G01-03-P3 M)
 Suau, Rafael (G15-17-P76)
 Suay-Corredera, Carmen (G02-13-P14; G09-24-P29 F)
 Sureda, Antoni (G13-22-P153; G15-17-P76; G15-18-P77)
 Swarup, Vivek (PL02)
 Tabernero, Arantxa (G05-14-P8 F; G18-30-P149 F)
 Tabernero, María (G05-14-P8 F)
 Tabone, MariÁngela (G08-09-P106; G09-33-P38)
 Talaverón, Rocío (G05-14-P8 F)
 Tamayo-Caro, Miguel (G02-04-OS M)
 Tapia-Rojó, Rafael (G09-19-P24 F,M)
 Tarradas, Rosa (G15-11-P70 F,M)
 Tavárez, Sandra (G02-50-P51; G02-51-P52; G18-16-P135)
 Teestillano, Pilar S. (G06-08-P90)
 Teijon, César (G07-08-P92)
 Teixidó, Joaquín (G18-01-OI)
 Tejada, Silvia (G13-22-P153)
 Tejada-Jiménez, Manuel (G12-09-P127)
 Tejedor, M. Cristina (G15-10-P69)

- Tejero, Héctor (G02-32-P33 F,M)
 Temprano, Álvaro G. (G02-06-OS)
 Tena, Juan J. (G03-05-OS; G03-02-OI)
 Terra, Ximena (G17-13-P104 F)
 Terrón, Verónica (G02-21-P22 F)
 Thode, Christian (G08-21-P118)
 Thomsen, J (G09-01-OI)
 Thor Bragason, Birkir (G02-42-P43 F,M)
 Tian, Lifeng (G02-53-P54 F,M)
 Tieves, Florian (G07-12-P96)
 Toledo-Lobo, María del Val (G18-18-P137 F,M)
 Toribio, María Luisa (G18-41-P160)
 Torralba, Johana (G11-04-OS)
 Torrano, Verónica (G04-08-P85 F,M; G05-16-P10 F,M; G16-02-OI)
 Torregrosa-Crespo, Javier (G12-14-P132)
 Torrejon, Daniel (G09-48-P53; G09-49-P54; G09-50-P55)
 Torres, Belen (G18-23-P142)
 Torres, Jesús M. (G16-18-P92)
 Torres, Lucía (G02-27-P28 F,M)
 Torres, María J. (G05-08-P2)
 Torres, Néstor (G08-04-OI; G08-10-P107; G13-14-P145 F)
 Torres, Patricia (G02-62-P63 F,M)
 Torres, Raul (G16-15-P89)
 Torres, Rubén (G16-05-OS)
 Torres de Pinedo, Jesus (G09-37-P42)
 Torres-Puig, Sergi (G09-30-P35; G16-16-P90)
 Torres-Rosell, Jordi (G09-21-P26 F)
 Tortajada, Marta (G07-04-OS M)
 Tovar, Sulay (G17-32-P123 F,M)
 Trellet, Mikael E. (G08-14-P111 F)
 Tremper, Catherine S (G14-06-P163 F,M)
 Troman, Lucy (G09-39-P44)
 Tron, Thierry (G07-13-P97 F,M)
 Trujillo, Lina María (G02-70-P71)
 Trujillo-González, Rodrigo (G08-10-P107)
 Tsilingiri, Katerina (G18-02-OI)
 Tundidor, Isabel (G18-10-P129 F,M)
 Tur, Josep A (G15-17-P76; G15-18-P77)
 Typas, Nassos (G18-28-P147 F,M)
 Tyrkalska, Sylwia D. (G02-38-P39 F,M)
 Ule, Jernej (G13-02-OI)
 Ulloa, Virginia (G02-08-P9 F,M)
 Unger, Andreas (G09-19-P24 F,M)
 Urbano, Alberto (G12-06-OS)
 Ureña-Peralta, Juan Ramón (G13-09-P140)
 Urrutia-Irazabal, Iñigo (G02-13-P14)
 Vacas, Andrés (G14-09-P166)
 Val-Blasco, Almudena (G02-21-P22 F)
 Valcarcel-Jiménez, Lorea (G05-16-P10 F,M)
 Valcarcer, Ricardo (G09-35-P40)
 Valdecantos, Pilar (G02-67-P68 F,M)
 Valderrama, Jose Miguel (G06-06-P88)
 Valderrama-Martín, Jose M. (G12-10-P128 F)
 Valdivia, Javier (G02-74-P75)
 Valenti, Victor (G17-23-P114 F)
 Valle, Adamo (G17-20-P111; G17-21-P112; G17-22-P113; G17-24-P115)
 Valle-Riestra Felice, Valeria del Carmen (G16-22-P96)
 Valledor, Pablo (G02-34-P35 F,M)
 Vallejo, Teresa (G02-74-P75)
 Vallvé, Xavier (G17-34-P125 F)
 Valpuestá, José María (G09-11-P16; G09-45-P50 F)
 Van Raaij, Mark Johan (G09-20-P25 M; G09-22-P27 F)
 Vandenbroucke, Roosmarijn (G02-44-P45)
 Vannini, Alessandro (S2.2-1)
 Vaquero-Morales, Paloma (G18-01-OI)
 Varejão, Nathalia (G09-21-P26 F)
 Varela, Ignacio (G02-20-P21 F)
 Varela, Yaiza (G11-08-P61; G11-11-P64)
 Varela-Eirín, Marta (G10-03-OS)
 Varela-Nieto, Isabel (G01-05-P5; G02-44-P45; G02-66-P67; G03-08-P77; G03-07-OS M; G15-15-P74 F,M; G18-21-P140)
 Varela-Rey, Marta (G02-04-OS M)
 Varela-Vázquez, Adrián (G01-04-P4 F,M; G10-03-OS)
 Vázquez, Jesús (G09-09-P14 F)
 Vázquez-Arias, David (G18-19-P138 F)
 Vázquez-Naharro, Alberto (G05-11-P5)
 Vecino, Rebeca (G01-03-P3 M)
 Vega, Sonia (S3.1-3)
 Vela-Sebastián, Ana (G02-14-P15 F,M)
 Velasco, Guillermo (G01-02-P2; G18-04-OS M)
 Velázquez-Campoy, Adrián (G09-23-P28; G12-19-P137 F)
 Velázquez-Carreras, Diana (G02-13-P14; G07-07-OS; G09-09-P14 F; G09-19-P24 F,M; G09-24-P29 F)
 Velázquez-Ruiz, Cristina (G16-20-P94 F)
 Vera, Julio (G04-06-P83 F)
 Verde Rello, Zoraida (G08-06-P103 F,M)
 Véry, Anne-Aliénor (G06-09-P91 F,M)
 Viana, Marta (G08-15-P112 F; G17-02-OI)
 Viana-Huete, Vanesa (G02-73-P74 F,M)
 Vicedo, Begonya (G12-15-P133 F)
 Vicente, Natalia (G09-09-P14 F)
 Vicente García, Cristina (G16-06-OS M)
 Victor, Victor M. (G15-09-P68)
 Vidal, Anna (G08-22-P119 F; G17-34-P125 F)
 Vidal, Anxo (G17-32-P123 F,M)
 Vidal-Alabró, Anna (G08-23-P120 F)
 Vieitez, Cristina (G18-28-P147 F,M)
 Viera-Bardón, Cristina (G04-08-P85 F,M; G05-16-P10 F,M)
 Vila, Miquel (G18-22-P141 F)
 Vila-Bedmar, Rocío (G02-56-P57 F,M)
 Vilar Cervero, Marçal (G16-24-P98)
 Vilches, Silvia (G02-13-P14)
 Vilchez García, Jesús (G05-18-P12)
 Vilchez Rienda, José Dámaso (G18-45-P165 F)
 Vilhena, J Guilherme (G04-04-P81 F,M; G16-17-P91 F,M)
 Villadangos-Redondo, Sabina (G16-03-OS)
 Villalba, José Manuel (G17-28-P119 F; G17-30-P121 F)
 Villamarín, Antonio (G08-03-OI)
 Villanueva, Jorge (G09-35-P40)
 Villanueva, Ángeles (G05-12-P6)
 Villar, Ana V. (G02-22-P23 F,M; G07-09-P93 F,M; G07-10-P94 F,M)
 Villarroja, Olga (G18-11-P130 F,M)
 Villegas Hernández, Sandra (G02-26-P27 F,M)
 Villoslada-Blanco, Pablo (G17-05-OS)
 Viña, Jose (G02-43-P44 F)
 Viña, Juan R (G02-57-P58)
 Viña-González, Javier (G07-06-OS)
 Viñals, Francesc (G18-43-P163 F)
 Visa, Anna (G01-01-P1 F,M)
 Visiedo, Francisco Manuel (G15-22-P81 F,M)
 Vivancos, Núria (G13-01-OI)
 Vivas, Dan (G09-49-P54)
 Vivas-Ruiz, Dan (G09-48-P53; G09-50-P55; G09-51-P56)
 Vizoso-Vázquez, Ángel (G16-07-OS)
 Vizárraga, David (G09-30-P35)
 Vurro, Federica (G05-18-P12)
 Wandosell, Francisco (G02-24-P25)
 Wanrooij, Sjoerd (G16-20-P94 F)
 Weber, Minéia (G17-23-P114 F)
 Wiederkehr, Andreas (G17-27-P118)
 Wigley, Dale (G09-13-P18 F,M)
 Wilkinson, Oliver (G09-13-P18 F,M)
 Woodhoo, Ashwin (G02-04-OS M)
 Waas, Mark N. (G04-02-OS M)
 Wyatt, Christopher D. R. (G03-02-OI)
 Ximenez Embun, Pilar (G02-03-OS)
 Yang, Kevin (G07-13-P97 F,M)
 Yarleque, Armando (G09-48-P53; G09-50-P55; G09-51-P56)
 Yau Qiu, Zhi Xin (G08-08-P105)
 Yenush, Lynne (G06-09-P91 F,M)
 Yildiz, Ramazan (G15-07-OS M)
 Yoldi, Guillermo (G18-25-P144 F,M)
 Younes, Sabry H H (G07-12-P96)
 Yruela, Inmaculada (G04-05-P82)
 Yunta, Sara (G13-16-P147 F,M)
 Yvert, Thomas (G08-06-P103 F,M)
 Zabala Letona, Amaia (G17-25-P116 F,M)
 Zafrilla, Basilio (G12-01-OI)
 Zagmutt, Sebastián (G17-14-P105 F; G17-15-P106 F,M; G17-04-OS M; G17-19-P110)
 Zalba, Guillermo (G15-03-OS; G17-18-P109 F,M)
 Zamarreño, Ángel M^a (G12-04-OS)
 Zapatería, Begoña (G17-17-P108 F,M)
 Zaragoza, Rosa (G02-57-P58)
 Zarria, Jacquelyne (G09-51-P56)
 Zarzuela, Eduardo (G02-32-P33 F,M)
 Zon, Leonard I. (G02-38-P39 F,M)
 Zorrilla, Silvia (G09-47-P52)
 Zorzano, Antonio (G17-07-OS; G17-23-P114 F)
 Zubiaga, Ana María (G02-04-OS M)
 Zulet, María Ángeles (G17-11-P102)

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Notes

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