

CaixaResearch Health Meeting

CAP ROIG 2024

OVERVIEW

3rd October

12:45h | Arrival to Cap Roig
Short guided tour around the Cap Roig gardens

13:45h | Welcome lunch

15.00h

WELCOME SPEECH

JUAN RAMÓN FUERTES,
DEPUTY GENERAL MANAGER, "LA CAIXA" FOUNDATION
→ FLOOR 0, AUDITORIUM

15.15h

SESSION #1:

At the forefront: novel
technologies and data tools

#1.1 Technology focused

#1.2 Data focused

→ FLOOR 0, AUDITORIUM

17:00h

SESSION #2:

"la Caixa" Foundation initiatives
to support biomedical innovation
and knowledge transfer

→ FLOOR 0, AUDITORIUM

17:45h | End of the 1st day meeting

→ FLOOR 0, AUDITORIUM

18:00h | Trip to the hotel

→ PARADOR AIGUABLAVA

20:30h | Dinner

→ PARADOR AIGUABLAVA

4th October

08:30h | Transfer from the hotel to Cap Roig

09:15h | Parallel working sessions

SESSION #3A:

How will AI change research
and medicine?

→ FLOOR 0, ROOM 1

SESSION #3B:

Research Impact Assessment

→ FLOOR 1, LIBRARY

10:45h | Coffee-break

11:15h

SESSION #4:

Transformative scientific leadership.
How to foster excellent research
with social impact

→ FLOOR 0, AUDITORIUM

12:45h | Conclusions & Closing speech

→ FLOOR 0, AUDITORIUM

13:00h | Lunch

14:30h | End of the meeting

CaixaResearch
Health Meeting

CAP ROIG 2024

PROGRAMME

3rd October

SESSION #1:

At the forefront: novel technologies and data tools

15.15h (1h45min)

Biomedical research has experienced a huge leap in recent years propelled by the development of novel technologies and the ability to generate and process increasing volume of data. How have new technologies contributed to solve unanswered research questions? Which challenges are faced when working with big amounts of data? How have traditional research fields changed thanks to these new advancements?

MODERATOR: QUENTIN COOPER

#1.1 TECHNOLOGY
FOCUSED

Elena Martínez

Institut de Bioenginyeria de Catalunya (IBEC), Barcelona

Jana B. Nieder

Laboratorio Ibérico Internacional de Nanotecnología (INL), Braga

Luciano Di Croce

Centre de Regulació Genòmica (CRG), Barcelona

Albert Quintana

Universitat Autònoma de Barcelona (UAB), Barcelona

#1.2 DATA
FOCUSED

M. Carolina Florian

Institut d'Investigació Biomèdica de Bellvitge (IDIBELL), Barcelona

Elena Gómez-Díaz

Instituto de Parasitología y Biomedicina López Neyra (CSIC), Granada

Manuel Palacín

Institut de Recerca Biomèdica (IRB Barcelona), Barcelona

Maria

Carmo-Fonseca
Instituto de Medicina Molecular de la Universidad de Lisboa (iMM), Lisboa

SESSION #2

"la Caixa" Foundation initiatives to support biomedical innovation and knowledge transfer

Helping you to develop health solutions from your research results

17.00h (45min)

Biomedical innovation is key for the future of health. For that reason, we created the CaixaImpulse Innovation program, which is now celebrating its 10th anniversary, to boost the transformation of biomedical knowledge into new treatments, diagnostics and medtech solutions. Currently, we take advantage of our experience and network to also provide *Innovation Services* to empower researchers within the CaixaResearch Health program by identifying scientific opportunities and supporting its development into impactful advancements in human health.

MODERATOR: QUENTIN COOPER

Jordi Vallès

"la Caixa" Foundation, Barcelona

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PROGRAMME

4th October

SESSION #3 | PARALELL WORKING SESSIONS

SESSION #3A

How will AI change
research and medicine?

09.15h (1h30min)

What is medical artificial intelligence? What are the current trends in medical AI? AI is supporting doctors/researchers not replacing them. What are the future possibilities? How will AI change research and the scientific method? Balancing Innovation and Integrity: The Role of AI in Research and Scientific Writing

MODERATOR: ALFONSO VALENCIA

SESSION #3B

Research Impact Assessment

09.15h (1h30min)

The Impact Science Pathway is a simplified causal chain linking scientific practices, outcomes and their wider effects on society and the economy. In this session, we will discuss the importance of assessing, managing, and promoting the impact of scientific progress in the spirit of "Science as a Common Good", as defined by UNESCO.

MODERATOR: PAULA ADAM

Felipe Prósper

Universidad de Navarra, Navarra

*Manuel Irimia*Centre de Regulació Genòmica (CRG),
Barcelona*Luisa Figueredo*Instituto de Medicina Molecular Joao Lobo
Antunes (iMM), Lisboa*Ana Joao Rodrigues*

Universidade do Minho, Braga

Ignasi López

"la Caixa" Foundation, Barcelona

SESSION #4

Transformative scientific
leadership. How to foster excellent
research with social impact

11.15h (1h30min)

What are the keys to transformative scientific leadership? How to foster excellent research with social impact, How to reinforce talent attraction and training. What are the challenges and hurdles faced by research centers outside the main hubs? What is the role of patient associations and scientific societies? What strategies can be applied to stimulate innovation and knowledge transfer? What are the financing challenges? How can foundations contribute?

MODERATOR: QUENTIN COOPER

*Xose R. Bustelo*Director of the Salamanca Cancer Research Center
(CIC-IBMCC), Salamanca*Ana Luisa Carvalho*Vice President of the CNC Center for Neuroscience
and Cell Biology (CNC UC), Coimbra*Olga Genilloud*

Scientific Director at the Medina Foundation, Granada

*Maite Mendioroz Iriarte*Director of Navarrabiomed - Miguel Servet
Foundation, Navarra*Marisol Soengas*President of the Spanish Association for Cancer
Research (ASEICA)

PARTICIPANTS

Project Leaders and Principal Investigators *that will be participating at the CaixaResearch Health Meeting 2024:*

Cardiovascular and Metabolic related diseases



PROJECT: New therapeutic targets for diabetes

Manuel Irimia

Project Leader

Centre de Regulació Genòmica (CRG),
Barcelona

PROJECT: The search for new markers and therapeutic targets in atherosclerosis

Miguel Ángel del Pozo Barriuso

Project Leader

Centro Nacional de Investigaciones
Cardiovasculares Carlos III (CNIC),
Madrid

Jesús Ruiz-Cabello

Principal Investigator

Asociación Centro de Investigación
Cooperativa en Biomateriales,
San Sebastián

PROJECT: Improving diagnosis and treatment of sudden death

Maria Carmo-Fonseca

Project Leader

Instituto de Medicina Molecular de la
Universidade de Lisboa, Lisbon

Simao José T. Rocha

Team Member

Instituto de Medicina Molecular, Lisbon

PROJECT: New gut-tissue brain-adipose metabolic connection as a therapeutic target to combat obesity and diabetes

José Manuel Fernández-Real

Principal Investigator

Institut d'Investigació Biomèdica
de Girona (IDIBGI), Girona

Lidia Cedó

Team Member

Institut d'Investigació Sanitària
Pere Virgili (IISPV), Tarragona

Infectious diseases



PROJECT: Attacking HIV reservoirs to eliminate the infection

Maria José Buzón

Project Leader

Vall d'Hebron Institut de Recerca (VHIR),
Barcelona

Enrique Martín Gayo

Principal Investigator

Universidad Autónoma de Madrid (UAM)-
CSIC, Madrid

Julia García

Principal Investigator

IrsiCaixa, Barcelona

Meritxell Genescà

Team Member

Fundació Hospital Universitari
Vall d'Hebron - Institut de Recerca (VHIR),
Barcelona

PROJECT: New strategies to treat sleeping sickness

Luisa Figueiredo

Project Leader

Instituto de Medicina Molecular
João Lobo Antunes, Lisbon

PROJECT: Understanding and blocking the adaptation mechanism of the malaria parasite in order to eradicate the disease

Elena Gómez-Díaz

Project Leader

Instituto de Parasitología y Biomedicina
López Neyra (CSIC), Granada

Lisa Ranford-Cartwright

Principal Investigator

University of Glasgow - Schools -
School of Biodiversity, One Health &
Veterinary Medicine, Edinburgh

Mahamadou Diakité

Principal Investigator

USTTB, Malaria Research and Training
Center, Bamako

PROJECT: New approaches to combatting Chagas disease and leishmaniasis

Olga Genilloud

Project Leader

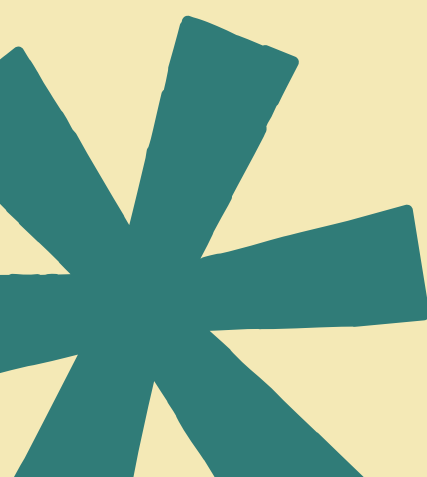
Centro de Excelencia en Investigación
de Medicamentos Innovadores en
Andalucía (Fundación MEDINA), Granada

PROJECT: The dialogue between neurons and defenses opens the door to new therapies against infections

Maria Aliseychik

Team Member

Champalimaud Foundation, Lisbon



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PARTICIPANTS

Neuroscience

**PROJECT:** Cellular reprogramming to repair the brain's sensory circuitsGuillermina *López-Bendito*

Project Leader

Instituto de Neurociencias, centro mixto del CSIC y la Universidad Miguel Hernández, Alicante

PROJECT: How does the brain classify stimuli as positive or negative?Ana Joao *Rodrigues*

Project Leader

Universidade do Minho, Braga

PROJECT: New treatments for schizophrenia and ictusManuel *Palacín*

Project Leader

Institut de Recerca Biomèdica (IRB Barcelona), Barcelona

Oscar *Llorca*

Principal Investigator

Centro Nacional de Investigaciones Oncológicas Carlos III (CNIO), Madrid

PROJECT: In search of therapies for mitochondrial diseasesAlbert *Quintana*

Project Leader

Universitat Autònoma de Barcelona (UAB), Barcelona

PROJECT: Understanding the origin of Parkinson's diseaseGuglielmo *Foffani*

Project Leader

HM CINAC, Fundación de Investigación HM Hospitales, Madrid

Josep Ramon *Correal*

Federación Española de Parkinson (FEP), Madrid

PROJECT: Diamond nanosensors to detect Parkinson's diseaseJana B. *Nieder*

Project Leader

Laboratorio Ibérico Internacional de Nanotecnología, Braga

António *Salgado*

Principal Investigator

Universidade do Minho, Braga

Ramiro *Almeida*

Principal Investigator

Universidade de Aveiro, Aveiro

PROJECT: Epilepsy and neurodevelopmental disorders share mechanisms that may inspire new therapiesAna Luisa *Carvalho*

Project Leader

Centro de Neurociencias y Biología Celular de la Universidad de Coimbra, Coimbra

Joana *Ferreira*

Principal Investigator

MIA-PORTUGAL, University of Coimbra, Coimbra

PROJECT: Non-invasive test for amyotrophic lateral sclerosis (ALS)Maite *Mendioroz*

Project Leader

Fundación Miguel Servet, Navarrabiomed, Pamplona

Oncology

**PROJECT:** Disabling immunosuppression mechanisms in melanomaMarisol *Soengas*

Project Leader

Centro Nacional de Investigaciones Oncológicas (CNIO), Madrid

PROJECT: Better understanding of the mutations present in T-lymphocyte lymphomas to improve their diagnosis and treatmentXose R. *Bustelo*

Project Leader

Centro de Investigación del Cáncer de Salamanca, Salamanca

PROJECT: Exploring blood production to understand the most aggressive forms of leukaemiaFelipe *Prósper*

Project Leader

Universidad de Navarra, Pamplona

PROJECT: Personalised therapy against a rare childhood cancerLuciano *Di Croce*

Project Leader

Centre de Regulació Genòmica, Barcelona

Marc A. *Martí-Renom*

Team Member

Centre Nacional d'Anàlisi Genòmica-CNAG, Barcelona

PROJECT: Fluorescent sensors to study physical forces in tumoursValeria *Venturini*

Team member

Institute for Bioengineering of Catalonia-IBEC, Barcelona

PROJECT: Artificial intelligence, a new ally against leukaemiaM. Carolina *Florian*

Project Leader

Institut d'Investigació Biomèdica de Bellvitge (IDIBELL), Barcelona

Medhanie *Mulaw*

Principal Investigator

Universität Ulm, Ulm

PROJECT: 3D bioprinting, a new tool to improve cancer survival ratesElena *Martínez*

Project Leader

Institut de Bioenginyeria de Catalunya, Barcelona

Lorena *Diéguez*

Principal Investigator

Laboratorio Ibérico Internacional de Nanotecnología, Braga

Elena *Élez*

Principal Investigator

Fundació Institut Investigació Oncològica Vall Hebrón (VHIO), Barcelona

PROJECT: Heterogeneous protein acylation and cancer (FAT&CURIOUS)Gemma *Triola*

Project Leader

Institut de Química Avanzada (IQAC-CSIC), Barcelona