

CIÊNCIAS RESEARCH DAY 2020

SPEED DATES

28 October 2020

Speed-date with FCIências.ID

FCiências.ID challenges you meet us and improve your funding opportunities through a thematic, personalized, safe distance 5 minutes speed date! SEE YOU THERE!

Timetable: 17:00 – 19:00

17:00 - **5 Simultaneous Zoom Rooms:** 15 min - presentation and Q&A

H2020 and Horizon Europe: present and future <https://videoconf-colibri.zoom.us/j/7789596048>
FCT: business as usual and the never heard about <https://videoconf-colibri.zoom.us/j/7373670158>
Managing R&D services: support and solutions <https://videoconf-colibri.zoom.us/j/9596678917>
Cofunding: How to close the GAP - <https://videoconf-colibri.zoom.us/j/9040122130>
External Cooperation and Intellectual Property – <https://videoconf-colibri.zoom.us/j/3315724753>

17:30 – **Start of the 11 thematic speed dates available for you to enrol**

Run! You only have 5 slots per theme to meet a research management specialist one on one!

Send an e-mail to the addresses below referring the theme that interests you to enrol!

Themes:

H2020 and Horizon Europe: present and future - internacionaisID@fciencias-id.pt

- A Green Deal Call @ H2020
- B ERC Grants @ Horizon Europe
- C Marie-Sklodowska-Curie Actions @ Horizon Europe
- D COST Actions @ Horizon Europe

FCT: business as usual and the never heard of - nacionaisID@fciencias-id.pt

- A Research Units, Scientific Projects
- B Applications, approvals and financial execution
- C Regulations, internal and external standards

Managing R&D services: support and solutions - concursos@fciencias-id.pt

- A Events
- B Services

Cofunding: How to close the GAP - areagp@fc.ul.pt

External Cooperation and Intellectual Property - falopes@fc.ul.pt

Speed-date with an Astronomer

Without an audience or fear of asking questions, in an individual and informal meeting with IA astronomers, you can ask everything you ever wanted to know about the reality of researchers but never had the courage to ask.

How is their day-to-day? What are their motivations, obstacles, challenges? You only have 3 minutes until the horn sounds - enjoy them well!

<https://videoconf-colibri.zoom.us/j/85052266322?pwd=MHE3dDkzTWJKcmVVZjRsUnl3YVF4UT09>

Moderator: Catarina Leote (Instituto de Astrofísica e Ciências do Espaço - IA)

Timetable: 17:00 - 18:00

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Speed-date with a Chemical Scientist

Centro de Química Estrutural (CQE) covers a broad and interdisciplinary group of areas within the scope of Chemistry. CQE general mission concerns the strengthening of the contribution of Chemistry to the welfare of society and you have now the opportunity to meet one or more Ciências researchers on several topics.

Science-based entrepreneurship

<https://videoconf-colibri.zoom.us/j/86885175453?pwd=TWtrRCtDK2ppc0czNFIEMTRMNWs2dz09>

Password: 922883

Moderator: Fernando Antunes (Centro de Química Estrutural – CQE Ciências)

Timetable: 17:30 - 18:00

LIFE Impetus Project - Biomass-derived activated carbons for the removal of pharmaceuticals from WWTP effluents

Water treatment technologies improvement is the key to face current water quality challenges of United Nations 2030 Agenda for Sustainable Development. The presence of pharmaceutical compounds in ambient water is a reality worldwide being a challenge in wastewater treatment, environmental protection, and water reuse. Wastewater treatment plants (WWTPs) are crucial barriers against contaminants but many pharmaceuticals are resistant to conventional treatments, thus cost effective and resource efficient solutions based on existing infrastructures are essential.

LIFE Impetus project explored feasible measures to improve pharmaceuticals control in urban WWTPs with conventional activated sludge treatment namely by developing and applying engineered powdered

activated carbons developed from industrial by-products available in Portugal (e.g. cork, carob processing acid residues and pine nut production residues).

Join us to know the main achievements of the LIFE Impetus project!

<https://videoconf-colibri.zoom.us/j/82035904378?pwd=UWthMnpwVVE4OW5vODRucjZYd1VlQT09>

Password: 088229

Moderators: Ana Mestre & Ana Paula Carvalho (Centro de Química Estrutural – CQE Ciências)

Timetable: 17:30 - 18:30

Impact of our daily life in photo-active nanomaterials development

<https://videoconf-colibri.zoom.us/j/88372388468?pwd=Z3hsc3NheUN6VmRYT29BaitLWk9sdz09>

Password: 919775

Moderator: Olinda Monteiro (Centro de Química Estrutural – CQE Ciências)

Timetable: 17:30 - 18:00

Porous materials

Porous materials have a (not very known) variety of uses for instance in adsorption and in catalysis, but also in a less known situation such as the controlled release of medicines.

<https://videoconf-colibri.zoom.us/j/89200866253?pwd=MUVcNmRoYXRlN3owenVNaWpEc2dRdz09>

Moderator: João Manuel Pires da Silva (Centro de Química Estrutural – CQE Ciências)

Timetable: 17:30 - 18:30

Nanomaterials, environmental remediation and electrochemistry

Among the wide range of possible applications of semiconducting nanomaterials, its use as catalysts has impact on pollutants removal and therefore on the nowadays critical issue of environmental remediation. Here, we will see how such materials allow the photocatalytic degradation of pollutants and can be applied in a wide range of shape and sizes, pristine or modified and as powders or supported on substrates. The interesting photochromic properties of some semiconductor NPs, enabling its use for sensing purposes, will also be addressed.

<https://videoconf-colibri.zoom.us/j/81923142812?pwd=NkRWRktaa1Ind1VFcm54bC9JNOVoZz09>

Password: 919775

Moderator: Virgínia Ferreira (Centro de Química Estrutural – CQE Ciências)

Timetable: 17:00 - 18:30

Drug control, sample preparation / Analytical chemistry, Forensic science

Have you ever wondered how blood alcohol content is confirmed by forensic experts? How does someone know if an athlete consumed any doping agent? How can a coroner confirm the cause of death? Can you directly determine and confirm if a person is driving under the influence of psychotropic substances? Is the CSI TV show really as they depict it? How does this all work in a lab environment? How is the environmental impact of drug analysis or lab analysis in general been taken on by the research community?

The answer to these and other questions can be found in this one-on-one speed date.

See you there!

<https://zoom.us/j/2138934265?pwd=dThqQUpJUWVLaUowMEJIMnUxMEZxQT09>

Moderator: Samir Ahmad (Centro de Quimica Estrutural – CQE Ciências)

Timetable: 17:30 - 18:30

Exploring fungi plasma membrane organization and dynamics: towards mitigation of antifungal drug resistance

Did you ever stop to wonder how impactful are resistant fungal infections? Fungal infections and multidrug resistance together with the lack of effective alternative antifungal agents is a major health concern with vast social-economic impact also through food losses.

Which strategies can be undertaken to fight multidrug resistant fungal infections? Many important antifungal agents act on the plasma membrane (PM) and evidence implicates sphingolipids (SLs) in the mechanism of action and resistance to antifungal agents in clinical use. SLs are major lipid components of the PM of eukaryotes and their organization in the PM is critical for many vital cellular functions. Since their structure and biophysical properties present fundamental differences in fungal and mammalian membranes, it is urgent to deeply exploit those differences, as they provide a unique opportunity to reach significant breakthroughs to overcome fungal infection.

Come and meet me to find how successful this approach can be!

<https://us04web.zoom.us/j/5771002462?pwd=bmZjdEV0VCtndW1td1JFVm1vU0FKUT09>

Password: 6ihhrP

Moderator: Joaquim Manuel Trigo Marquês (Centro de Quimica Estrutural – CQE Ciências)

Timetable: 17:30 - 18:15

Quantitative structure-property relationships and their application to diverse research areas (e.g., health, catalysis)

<https://videoconf-colibri.zoom.us/j/87697914933>

Password: 959243

Moderator: Filomena Martins (Centro de Química Estrutural – CQE Ciências)

Timetable: 17:30 - 18:30

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Speed-date with Mathematician

Come have a chat with a mathematician working in optimal transportation: from pure abstract geometry to hands-on applied economics via physics and quantum mechanics, all you've ever wanted to know about what a mathematician could possibly be studying all day long.

<https://videoconf-colibri.zoom.us/j/87826001737>

Moderator: Léonard Monsaingeon (Grupo de Física Matemática FCUL - GFM)

Timetable: 17:00 - 18:00

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Speed-date with a Science Philosopher

“There is no such thing as philosophy-free science; there is only science whose philosophical baggage is taken on board without examination.

—Daniel Dennett, Darwin's Dangerous Idea, 1995”

How can Philosophy of Science contribute to the work of scientists and to the training of Science students? A thorough answer to this question would be too long, but here we will summarize it in five brief points. Philosophy of Science helps understanding what science and pseudoscience are; it clarifies concepts, helps formulating new theories or better understand existing ones; it analyses the ethical implications of science and technology; it fosters the dialogue between science and society; it promotes critical thinking and helps thinking out the box. If you're curious or if you're not convinced, come and join us at the speed date on Ciências Research Day and let's talk!

<https://videoconf-colibri.zoom.us/j/86375099757>

Moderators: João L. Cordovil and Sílvia Di Marco (Centro de Filosofia da Ciência da Universidade de Lisboa - CFCUL)

Timetable: 17:00 - 18:30

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Speed-date with a Physics Scientist

Speed-date on axillary microwave imaging

Axillary lymph node diagnosis is crucial to patients affected by breast cancer. However, current diagnosis methods suffer from several limitations. In this context, my research group works on the development of a novel imaging modality exploiting microwaves to diagnose axillary lymph nodes. You are welcome to join the speed-date if you are interested to know more about this emerging technology and our current research.

<https://videoconf-colibri.zoom.us/j/84070012439>

Moderator: Matteo Savazzi (Instituto de Biofísica e Engenharia Biomédica - IBEB)

Timetable: 17:00 - 18:00

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