

2023  
8-12 MAY

BIENNIAL EUROPEAN ASTROBIOLOGY CONFERENCE,  
FUENCALIENTE, LA PALMA

# BEACON



EAI

EUROPEAN  
ASTROBIOLOGY  
INSTITUTE



**EAI**  
EUROPEAN  
ASTROBIOLOGY  
INSTITUTE

**The European Astrobiology Institute (EAI) is a consortium of European research and higher education institutions and organisations as well as other stakeholders aiming to carry out research, training, outreach and dissemination activities in astrobiology in a comprehensive and coordinated manner and thereby securing a leading role for the European Research Area in the field.**

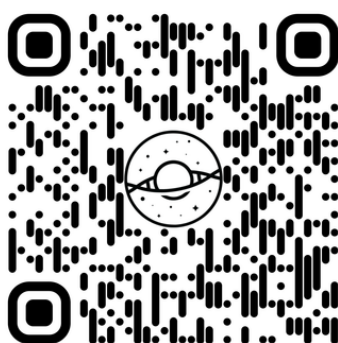
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**Key Research Areas of EAI:**

- Formation and Evolution of Planetary Systems and Detection of Habitable Worlds
- Planetary Environments and Habitability
- Evolution and Traces of Early life and life under extreme conditions
- The pathway to complexity: From simple molecules to first life
- Biosignatures and the Detection of Life beyond Earth
- Historical, philosophical, societal and ethical issues in astrobiology

The EAI has 26 participating institutions from 13 countries. EAI engages in a variety of outreach activities, including streamed seminars, conferences and summer schools.

To find out more about EAI, visit our website!





## About BEACON

The Biennial European Astrobiology Conference (BEACON) brings scientists and experts in the Astrobiology field from Europe and beyond. BEACON will take place at the La Palma & Teneguia Princess Hotel on Fuencaliente, La Palma Island (Canary Islands, Spain) from May, 8th to 12th 2023.

BEACON Conference Topics are:

- Evolution and Traces of Early Life and Life Under Extreme Conditions
- Biosignatures and the Detection of Life Beyond Earth
- Historical, Philosophical, Societal and Ethical Issues in Astrobiology
- Tracing Life and Identifying Habitable Environments
- Impacts and their Role in the Evolution of Planets, Moons and Life
- Protoplanetary Disks and their Physical and Chemical Processes
- Formation and Evolution of Planetary Systems and Detection of Habitable Worlds
- The Pathway to Complexity: From Simple Molecules to First Life
- Planetary Environments and Habitability

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## Keynote Speakers



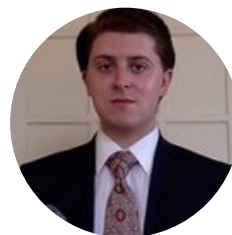
**Janice Bishop**  
SETI, USA



**Bertram Bitsch**  
MPIA, Germany



**Michaël Gillion**  
UoL, Belgium



**Keyron Hickman-Lewis**  
CNRS, France



**Dennis Höning**  
Potsdam-Institute for  
Climate Research,  
Germany



**Lisa Kaltenegger**  
Cornell University,  
USA



**Nancy Kiang**  
NASA Goddard  
Space Flight Centre,  
USA



**Michel Mayor**  
Geneva University,  
Switzerland

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# BEACON

For detailed practical information about BEACON, the Hotel or the island, please visit the BEACON webpages by scanning the QR code below.



EAI encourages social media engagement with our conference. If you are posting online, please use the hashtag **#EAI BEACON2023**.

We will be taking images and video throughout the conference. If you do not wish to be photographed, please inform either Mariette Vandermersch-Desmartin or Courtney Allison.





# PRACTICAL INFORMATION

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## Hotel Information

For detailed information about the BEACON venue (**La Palma & Teneguía Princess**) please scan the QR code below to access the official App.



## Restaurant Information

### Food Market (main restaurant)

Opening Hours:

- Breakfast: 07:30 h - 10: 00 h
- Lunch: 13:00 h - 15:00 h
- Dinner: 18:45 h - 21:45 h

### Piano Bar La Palma (close to the Reception)

Opening hours :

- 10:00 h - 00:00 h.

## Registration Information

### Sunday 7th May:

14:00-17:00 and 20:30-22:00

### Monday 8th May:

07:30- 11:00

 *Next to the Hotel Reception*

★★★★  
LA PALMA TENEGUÍA  
PRINCESS  
VITAL & FITNESS

VITAL &amp; FITNESS

EDIFICIO PRINCIPAL  
MAIN BUILDING

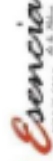
- 2. "AGORA" Meetings Area
- 3. "JALEO" Disco
- 4. RESTAURANT "LA VITA"
- 5. RESTAURANT "LA TASCA"
- 6. TIENDA
- 7. MINI CLUB NOCHE
- 8. RESTAURANT "FOOD MARKET"

## ZONA LA PALMA PRINCESS

## ZONA TENEGUÍA PRINCESS

- FAMILY SNACK "MORDISCO"  
RESTAURANT "EL MIRADOR"  
"OCEAN" BAR

## SPA PRINCESS

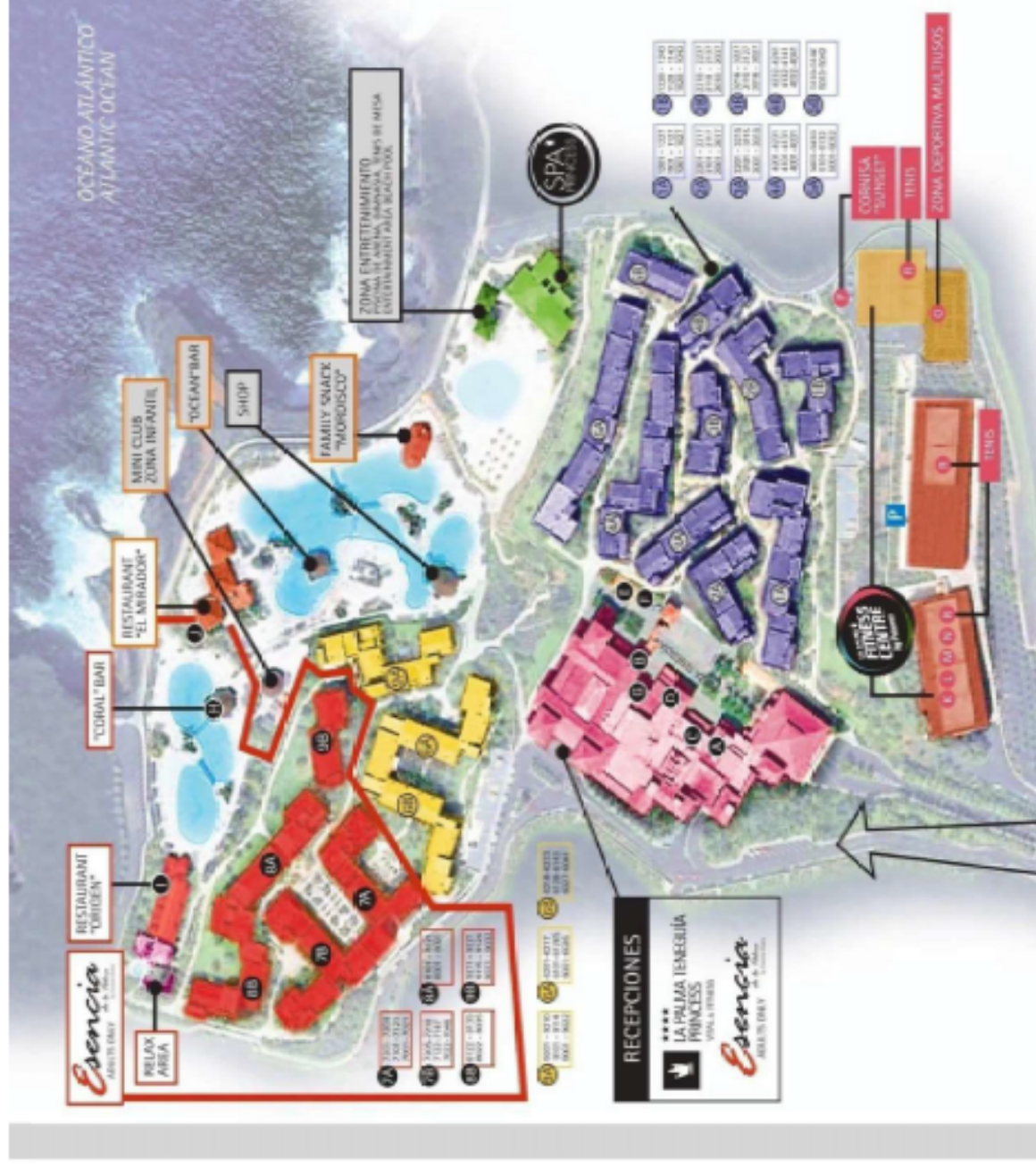


- ④ "CORAL" BAR
- ① RESTAURANT "ORIGEN"
- ① RESTAURANT "EL MIRADOR"



- SPINNING SALA / ROOM
- ACTIVIDADES DIRIGIDAS SALA / ROOM
- FITNESS SALA / ROOM
- POLIVALENTE SALA / ROOM
- ZONA MULTIDEPORTIVA
- CORNISA SUNSET
- TENIS

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# BEACON

## OUTREACH ACTIVITIES

### *Thursday 4th May*

10:15

Astrobio Tombola in Spanish in School San Antonio

### *Friday 5th May*

19:00

Astrobio Tombola in English in Agora Hall, Hotel La Palma and Teneguia Princess

### *Saturday 6th May*

20:00

Astroconcert in CUPALMA, near the Hotel

### *Monday 8th May*

09:30

Astrobio Tombola in School Fuencaliente

### *Tuesday 9th May*

09:30

Astrobio Tombola in School Fuencaliente

### *Thursday 11th May*

19:00

Public conference Briones-Caballero Santa Cruz



# BEACON

## 2023 PROGRAMME

### *Sunday 7th May 2023*

**14:00 - 22:00**

Registration of participants at Hotel Le Palma & Teneguina

**17:00**

**Welcome Ceremony**

**17:00**

**Welcome by the EAI**  
Wolf D. Geppert, EAI Chair

**17:10**

**Welcome by the Cabildo Insular of La Palma**  
Mariano Hernández Zapata, President of the Island Authority Cabildo Insular

**17:15**

**Welcome by the Spanish Centre of Astrobiology**  
Victor Parro, Director of Centro de Astrobiología

**17:20**

**Presentation of Gran Telescopio Canarias**  
Romano Corradi, Director of GTC

**17:40**

**Presentation of Telescopio Nazionale Galileo**  
Adriano Ghedina, Director of TNG

**18:00**

**Presentation of Isaac Newton Group of Telescopes**  
Marc Balsells, Director of ING

**18:20**

Break and cocktail reception

**19:00**

**Public talk: "Change of paradigm during the 20th century - From one to billions of planetary systems"** Michel Mayor, University of Geneva, CH

**19:45**

Questions and discussions

**20:00**

Dinner



	<b><i>Monday 8th May</i></b>
<b>07:30 - 08:30</b>	Registration of participants at Hotel Le Palma & Teneguina
<b>08:30 - 08:45</b>	<b>Welcome address and organizational matters</b> Wolf Geppert, Stockholm University, SE
<b>08:45 - 10:30</b>	<b>Session I: “Formation and Evolution of Planetary Systems and Detection of Habitable Worlds”</b> Chair: Guiseppe Murante, INAF, IT
<b>08:45 – 09:20</b>	<b>Doppler cross-correlation spectroscopy as a path to the detection of Earth-like planets (Invited talk)</b> Michel Mayor, University of Geneva, CH
<b>09:20 - 09:30</b>	Discussion
<b>09:30 - 10:05</b>	<b>Planet formation around stars with different composition (Invited talk)</b> Bertram Bitsch, MPI for Astronomy, DE
<b>10:05 - 10:15</b>	Discussion
<b>10:15 - 10:30</b>	<b>Habitable Worlds: Formation, evolution, detection, and characterization</b> Ewa Szuszkiewicz, University of Szczecin, PL
<b>10:30 - 11:00</b>	Coffee break
<b>11:00 - 13:00</b>	<b>Session I (continued): “Formation and Evolution of Planetary Systems and Detection of Habitable Worlds”</b> Chair: Ewa Szuszkiewicz, University of Szczecin, PL
<b>11:00 - 11:15</b>	<b>The effect of galactic kinematics on exoplanet systems and their potential habitability</b> Scarlett Royle, Liverpool John Moore University, UK
<b>11:15 - 11:30</b>	<b>Forming wide-orbit planets via pebble accretion</b> Nerea Gurrutxaga, Lund University, SE
<b>11:30 - 11:45</b>	<b>The composition of the dust particles of comet 67P/Churyumov-Gerasimenko suggests a pre-accretionary irradiated surface composition of their minerals and organics</b> Hervé Cottin, Institut Pierre-Simon Laplace, PR
<b>11:45 - 12:00</b>	<b>Protoplanet Collisions: Second Generation Scaling Laws</b> Samuele Crespi, University of New York at Abu Dhbi, UAE
<b>12:00 - 12:15</b>	<b>Formation of giant planets in protoplanetary discs</b> Olja Panic, Leeds University, UK
<b>12:15 - 12:30</b>	<b>The unusual case of Delorme 1 (AB)b: characterising accretion at the 40-Myr old super-Jovian protoplanet using resolved near-UV hydrogen emission lines</b> Gayathri Viswanath, Stockholm University, SE
<b>12:30 - 12:45</b>	<b>A Comprehensive and Self-consistent Model of the Formation of Earth as a Habitable Planet</b> Nader Haghighipour, University of Hawai’i , US
<b>12:45 - 13:00</b>	<b>Dehydration of phyllosilicates at the origin of the Galilean moons’ density gradient</b> Olivier Mousis, University of Aix-Marseilles, FR
<b>13:00 - 14:30</b>	Lunch break
<b>14:30 - 16:30</b>	<b>Session I (continued): “Formation and Evolution of Planetary Systems and Detection of Habitable Worlds”</b> Chair: Ewa Szuszkiewicz, University of Szczecin, PL
<b>14:30 - 15:05</b>	<b>Life under a small red sun: observational insights into the potential habitability of terrestrial planets orbiting low-mass red dwarfs (Invited talk)</b> Michaël Gillon, University of Liège, BE

	<b>Monday 8th May</b>
<b>15:05 - 15:15</b>	Discussion
<b>15:15 - 15:30</b>	<b>Dynamics and heat budget in the Trappist-1 system</b> Alexandre Revol, University of Geneva, CH
<b>15:30 - 15:45</b>	<b>The History and Habitability of the LP 890-9 Planetary System</b> Rory Barnes, University of Washongton, US
<b>15:45 - 16:00</b>	<b>Thermal Emission from the Earth-sized Exoplanet TRAPPIST-1 b using the JWST</b> Elsa Ducrot, CEA, FR
<b>16:00 - 16:15</b>	<b>Is it raining lava in the evening on 55 Cancri e ?</b> Alexis Brandeker, Stockholm University, SE
<b>16:15 - 16:30</b>	<b>Enabling Comparative Exobiology with a Large Interferometer For Exoplanets: the LIFE mission concept</b> Daniel Angerhausen, ETH Zürich, CH
<b>16:30 - 17:00</b>	Coffee break
<b>17:00 - 19:15</b>	<b>Session II “Planetary Environments and Habitability”</b> Chair: Dennis Höning, Potsdam-Institute for Climate Impact Research, DE
<b>17:00 - 17:35</b>	<b>Characterizing Habitable Worlds</b> Lisa Kaltenegger, Cornell University, US
<b>17:35 - 17:45</b>	Discussion
<b>17:45 - 18:00</b>	<b>Hot Jupiters and their surroundings</b> Judith Korth, Lund University, SE
<b>18:00 - 18:15</b>	<b>Post-formation H/He budgets in mini-Neptunes and super-Earths</b> Marit Mol, University of Zürich, CH
<b>18:15 – 18:30</b>	<b>Feasibility of Photosynthesis around Red Dwarf Stars: A Thermodynamic Model</b> Samir Chitnavis, Queen Mary University, UK
<b>18:30 - 18:45</b>	<b>Ceres: A high priority astrobiological target</b> Cristina de Sanctis, INAF, IT
<b>18:45 – 19:00</b>	<b>Role of polyols in creating microhabitable environments during ice formation on Enceladus</b> Charity Phillips Lander. South West Research Institute, US
<b>19:00 – 19:15</b>	<b>Detection of phosphates in Enceladus’ ocean by Cassini CDA: implications for habitability in the outer solar system</b> Frank Postberg, Free University Berlin, DE
<b>19:15 - 20:45</b>	Dinner break
<b>20:45</b>	Poster session 1

	<b><i>Tuesday 9th May</i></b>
<b>08:30 - 12:45</b>	<b>Session II “Planetary Environments and Habitability” (continued)</b> Chair: Vinciane Debaille, Universite Libre de Bruxelles, BE
<b>08:30 - 09:05</b>	<b>Earth-Like Exoplanets: Feedback Mechanisms, Habitability, and Life (Invited talk)</b> Dennis Höning, Potsdam-Institute for Climate Impact Research, DE
<b>09:05 - 09:15</b>	Discussion
<b>09:15 - 09:30</b>	<b>A minimum variability of rocky exoplanet oxygen fugacities</b> Claire Guimond, Cambridge University, UK
<b>09:30 – 09:45</b>	<b>Constraining cloud properties of exoplanets with polarization spectra and phase curves: the case of Earth</b> Giulia Roccetti, ESO, Chile
<b>09:45 - 10:00</b>	<b>Strongly reducing atmospheres for rocky super-Earths?</b> Lena Noack, Free University Berlin, DE
<b>10:00 - 10:15</b>	<b>Reconsidering the habitability of planets in the light of climate multistability</b> Siddharth Bhatnagar, University of Geneva, CH
<b>10:15 - 10:30</b>	<b>First exploration of the entire runaway greenhouse transition with a 3D global climate mode"</b> Guillaume Chaverot, University of Geneva, CH
<b>10:30 – 10:45</b>	<b>Impact of vegetation on the habitability of Earth-like exoplanets</b> Erica Bisesi, INAF, IT
<b>10:45 – 11:15</b>	Coffee break
<b>11:15 - 11:30</b>	<b>Interbedded clay and sulfate deposits in Meridiani Planum, Mars: a valuable insight on the planet's ancient climate at the Noachian-Hesperian boundary</b> Beatrice Baschetti, INAF, IT
<b>11:30 - 11:45</b>	<b>Sedimentary infill of marine-target impact craters reveals target water depth and, thus, the paleoenvironment: Implications for Mars?</b> Jens Ormö, Centro de Astrobiología, ES
<b>11:45 - 12:00</b>	<b>Orbital evidence of ferrihydrite in the Martian dust: implications for the ancient climate on Mars</b> Adomas Valantinas, Université Bern, CH
<b>12:00 - 12:15</b>	<b>Paleolakes on Mars – Martian Time Capsules</b> Nadia Boppart, The University of Hong Kong SAR, CN
<b>12:15 - 12:30</b>	<b>Unveiling the subsurface structure of the most recent lava flows in Echus Chasma region, Mars</b> Federico Mansilla, Centro de Astrobiología, ES
<b>12:30 - 12:45</b>	<b>Planning for a Mars long-lived weather network</b> Daniel Paardekooper, ESA
<b>12:45 - 14:15</b>	Lunch break
<b>14:15 - 15:15</b>	<b>Session III: History, Philosophy and Public Engagement</b> Chair: Muriel Gargaud, University of Bordeaux, FR
<b>14:15 – 14:30</b>	<b>Our Earthly Perspective: History and Effects on Exoplanet Science and Astrobiology</b> Emma Puranen, University of St. Andrews, UK
<b>14:30 – 14:45</b>	<b>Molecular Shadows: Explaining the Molecular Make-Up of Life</b> Philipp Spillmann, Cambridge University, UK
<b>14:45 – 15:00</b>	<b>Beyond Permits: Standards in Field Site Ethics</b> Aaron Gronstal, NASA, US
<b>15:00 – 15:15</b>	<b>Life Beyond Us: Communicating science via science-fictional narratives</b> Julie Novaková, Charles University, Prague, CZ

15:15 – 16:15	Break with possibility to have snacks
16:00	Excursion to Teneguia Lava field
16:15	<b><u>EAI General Assembly</u></b>
18:30	Information about EAI
19:00 - 20:30	Dinner break
20:30	Poster session II
	<b><i>Wednesday 10th May</i></b>
6:30	Breakfast
07:15	Excursion to Caldera de Taburiente and Observatorio del Roque de Los Muchachos
20:30	Dinner
	<b><i>Thursday 11th May</i></b>
08:30 - 11:30	<b>Session IV: “The Pathway to Complexity: From Simple Molecules to First Life”</b> Chair: Carlos Briones, Centro de Astrobiología, ES
08:30 - 08:45	<b>Towards Molecular Complexity</b> Thomas Henning, MPI for Astrophysics, DE
08:45 - 09:00	<b>A theoretical approach to the complex chemical evolution of phosphorus in the interstellar medium</b> Marina Fernandez-Ruz, Centro de Astrobiología, ES
09:00 - 09:15	<b>Formation of peptides in the interstellar medium by condensation of C atoms</b> Serge Krasnokutski, University of Jena, DE
09:15 - 09:30	<b>Can interstellar asymmetric photochemistry of isovaline explain its chiral excess in carbonaceous chondrites?</b> Jana Bocková, University of Côte d’Azur, FR
09:30 - 09:45	<b>Astrophysical ices as a source of molecular diversity in planetary systems</b> Gregoire Danger, University of Aix-Marseille, FR
09:45 - 10:00	<b>The role of minerals surfaces on the path to molecular complexity</b> Eva Mateo-Marti, Centro de Astrobiología, ES
10:00 – 10:15	<b>Metal/ADP complexes promote phosphorylation of ribonucleotides</b> Silvana Pinna, CNRS and University of Strasbourg, FR
10:15 – 10:30	<b>Evolution of organic matter on the surface of Jovian satellites: experimental investigation of the possible formation of organosulfurs by ion implantation into water-alkane ices</b> Alexis Bouquet, Université Aix-Marseille, FR
10:30 - 11:00	Coffee Break
11:00 – 11:15	<b>Oxygen ion irradiation of Titan aerosol analogues</b> Veronique Vuitton, University Grenoble-Alpes, FR
11:15 – 11:30	<b>Meteorites and the RNA World: Synthesis of Nucleobases and Ribose in Carbonaceous Planetesimals and the Role of Initial Volatile Content</b> Klaus Paschek, MPI for Astronomy, DE



	<b>Thursday 11th May</b>
<b>11:30 - 15:15</b>	<b>Session V: “Evolution and Traces of Early Life and Life under Extreme Conditions”</b> Chair: Emmanuelle Javaux, University of Liège, BE
<b>11:30 - 12:05</b>	<b>The earliest traces of life on Earth and their utility in the search for life on Mars (Invited talk)</b> Keyron Hickman-Lewis, Natural History Museum, UK
<b>12:05 - 12:15</b>	Discussion
<b>12:15 - 12:30</b>	<b>Hell and heaven on the early Earth: environments for early life</b> Frances Westall, CNRS, FR, presented by Keyron Hickman-Lewis
<b>12:30 - 12:45</b>	<b>Experimental fossilisation of methanogens in phosphates, carbonates, and silicates</b> Sigrid Huld, Uppsala University, SE
<b>12:45 - 13:00</b>	<b>Polysphaeroides filiformis, a Proterozoic cyanobacterial microfossil and implications for the evolution of heterocytous cyanobacteria</b> Catherine Demoulin, University of Liège, BE
<b>13:00 – 14:30</b>	Lunch break
<b>14:30 - 14:45</b>	<b>Microfossil taphonomy in clay-rich rocks in Proterozoic environments analogue to the Noachian on Mars.</b> Brooke Johnson, University of Liège, BE
<b>14:45 - 15:00</b>	<b>Effect of hypobaric pressure, low temperature and CO2 atmosphere on fatty acid composition in plasma membrane of extremophiles from smouldering coal waste dumps.</b> Agnieszka Bylina, University of Silesia in Katowice, PL
<b>15:00 - 15:15</b>	<b>Viability of Bacterial Spores under Ocean World Icy Surface Conditions</b> Edith Fayolle, JPL, US
<b>15:15</b>	Poster Logo Award Ceremony and break
<b>16:00</b>	Excursion to Teneguia Lava Field
<b>19:00 - 20:30</b>	Dinner break
<b>20:30</b>	Poster session III
	<b>Friday 12th May</b>
<b>08:30 - 09:45</b>	<b>Session V (cont.): “Evolution and Traces of Early Life and Life under Extreme Conditions”</b> Chair: Emmanuelle Javaux, University of Liège, BE
<b>08:30 - 08:45</b>	<b>Blue biotopes in Icelandic lava tubes: an analog to subsurface life on the Red Planet?</b> Nina Kopacz, Utrecht University, NL
<b>08:45 - 09:00</b>	<b>Survivability of Xanthoria parietina in simulated Mars conditions for 30 days</b> Christian Lorenz, INAF, Italy
<b>09:00 - 09:15</b>	<b>Volcanic glaciers harbor microbial life: Differences and similarity between Hemispheres</b> Victor Muñoz Hisado, Centro de Astrobiología, ES
<b>09:15 - 09:30</b>	<b>They Transcribe by Night: Investigating the diel cycles of a hypersaline saltern</b> Maggie Weng, Georgetown University, US
<b>09:30 - 09:45</b>	<b>Archean carbonates and oxygen oasis: a window for ancient life on Mars?</b> Fuencisla Cañadas, Centro de Astrobiología, ES
<b>09:45 – 13:00</b>	<b>Session VI: Biosignatures and the Detection of Life beyond Earth</b> <b>VI a: Biosignatures; Strategies and Methods</b> Chair: Jean-Pierre de Vera, German Aerospace Centre, DE

	<i><b>Friday 12th May</b></i>
<b>09:45 – 10:20</b>	<b>Photosynthetic biosignatures: The long wavelength limit (Invited talk)</b> Nancy Kiang, NASA Goddard Space Flight Centre, US
<b>10:20 – 10:30</b>	Discussion
<b>10:30 - 11:00</b>	Coffee break
<b>11:00 - 11:15</b>	<b>On biosignatures and tracers of life</b> Inge Loes ten Kate, Utrecht University. NL
<b>11:15 - 11:30</b>	<b>Raman Spectroscopy for the Detection of Organics: Advances in Spectral Interpretation and Instrumentation</b> Jason Hafner, Rice University, US
<b>11:30 - 11:45</b>	<b>Cryo-Raman spectroscopy for the detection of biosignatures on icy samples</b> Juelene Aramendia, University of the Basque Country, ES
<b>11:45 - 12:00</b>	<b>Detection of biosignatures on Mars using Raman spectroscopy: expectations and limits</b> Mickael Baque, German Aerospace Centre, DE
<b>12:00 – 12:15</b>	<b>Lipids and Amino Acids as biosignatures – the need for quantitative and comparative studies to avoid false positives</b> Ruth-Sophie Taubner, Austrian Academy of Sciences, AT
<b>12:15 – 12:30</b>	<b>Molecular and isotopic analysis of lipid biomarkers to reconstruct the paleo-ecology of a polar lake in Greenland: Implications for astrobiology</b> Pablo Finkel, Centro de Astrobiología, ES
<b>12:30 - 12:45</b>	<b>Understanding the ecology of serpentinizing environments with analogy to early Earth through molecular and isotopic analysis of lipid biomarkers</b> Laura Sanchez-Garcia, Centro de Astrobiología, ES
<b>12:45 - 13:00</b>	<b>Multiscale textural assessment of the morphogenesis of lenticular microstructures from Archean cherts of the Pilbara Craton</b> Maxime Coutant, University of Liège, BE
<b>13:00 - 14:30</b>	Lunch
<b>14:30 - 17:00</b>	<b>Session VI: Biosignatures and the Detection of Life beyond Earth</b> <b>Session VIb: Search for life on other planets</b> Chair: Lena Noack, Free University Berlin, DE
<b>14:30 - 14:45</b>	<b>The Strategy to search for Life beyond Earth</b> Jean-Pierre de Vera, German Aerospace Centre, DE
<b>14:45 - 15:00</b>	<b>Simulation, Analysis and Verification of Aerial Capture System for Morning Star Missions to Venus</b> Iaroslav Iakubivskyi, MIT, US
<b>15:00 - 15:15</b>	<b>Towards Detecting Signatures of Life with the Future LIFE Telescope</b> Björn Konrad, ETH Zürich, CH
<b>15:15 - 15:30</b>	<b>Could the mid-infrared space interferometer LIFE find biosignatures in the spectrum of the Earth in time?</b> Eleonora Alei, ETH Zürich, CH
<b>15:30 - 15:45</b>	<b>Identifying Cell Material in Individual µm-sized Ice Grains Emitted from Enceladus or Europa</b> Maryse Napoleoni, Free University Berlin, DE
<b>15:45 - 16:00</b>	<b>Dark microbiome and extremely low organics in an Atacama fossil river delta unveil the limits for life detection on Mars</b> Armando Azua-Bustos, Centro de Astrobiología, ES
<b>16:00 - 16:15</b>	<b>Degradation of biosignatures in natural samples under simulated Martian radiation</b> Anais Roussel, Georgetown University, US
<b>16:15 - 16:30</b>	<b>Organic matter preservation potential at the ExoMars 2028 landing site: a preliminary assessment</b> John Carter, University Paris- Sud, FR

	<b>Friday 12th May</b>
16:30 - 16:45	<b>The Absolute Configuration of Hydrocarbons as Molecular Fossils: Implications for the Search of Extinct Life on Mars</b> Guillaume Leseigneur, University of Côte d’Azur, FR
16:45 - 17:00	<b>Towards Detecting Molecular Biomarkers in Mars’ Subsurface Environments: Insights from the Biogeochemical Studies of Terrestrial Lava Tubes as Analogs for Mars</b> Maëva Millan, Institut Pierre-Simon-Laplace, FR
17:00 – 17:30	Coffee break
17:30 - 19:30	<b>Session VI: Biosignatures and the Detection of Life beyond Earth</b> <b>Session VIc: Special Session: Mars Sample Return</b> Chair: Inge Loes ten Kate, University of Utrecht, NL
17:30 - 18:05	<b>Remote Characterization of Minerals on Mars to Uncover Past Aqueous Processes and Potentially Habitable Regions</b> Janice Bishop, SETI, USA
18:05 - 18:15	Discussion
18:15 – 18:30	<b>Mars Sample Return Science Management</b> Gerhard Kminek, ESA
18:30 –18:45	<b>Mars Sample Return: Planning the Search for Biosignatures in Samples from Mars</b> Gerhard Kminek on behalf of Brandi Carrier, JPL, US
18:45 – 19:00	<b>Inspecting the astrobiological relevance of samples collected at Jezero Crater on Mars by the NASA Mars 2020 Perseverance rover for future return to Earth</b> John Brucato, INAF, Italy
19:00 – 19:15	<b>Sampling Jezero Crater, Mars for future Mars Sample Return</b> Sandra Siljeström, RISE, SE
19:15 – 19:30	<b>Mars sample return: scientific objectives and implication for the crater floor campaign</b> Vinciane Debaille, Université Libre de Bruxelles, BE
19:30	Open Discussion
20:30	Conference Banquet
	<b>Saturday 13th May</b>
07:30	After-conference walk “Ruta de los Volcanes”
	<b>Sunday 14th May</b>
07:30	Breakfast and departure



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