

Eloi Camprubi-Casas, Ph.D.
CV

Training

Ph.D. in Chemistry - University College London, 2018
Advisors: Profs. Nick Lane and John Ward, Dept. of Genetics, Evolution and Environment

M.Res. in Molecular Biophysics – University College London, 2014
Advisor: Prof. Nick Lane, Dept. of Genetics, Evolution and Environment

B.S. in Biochemistry - Universitat Autònoma de Barcelona, 2012
Faculty of Biosciences

B.S. in Biology - Universitat Autònoma de Barcelona, 2011
Faculty of Biosciences

Professional appointments

2022 - present: Assistant Professor of Astrobiochemistry (tenure track)
Dept. of Biology & Dept. of Chemistry, University of Texas Rio Grande Valley, TX, US

2021 - 2022: Human Frontier Science Program Fellow
ELSI, Tokyo Institute of Technology, Tokyo, Japan (remotely)

2018 - 2021: Fellow of the Origins Center
Dept. of Earth Sciences, Utrecht University, Utrecht, The Netherlands

2013: Research Excellence Framework (REF) 2014 Assistant Manager
University of Roehampton, London, UK

Publications

Please see [Google Scholar](#) for an updated list of my publications.

Honors and grants

Rising STARS grant, The University of Texas System, 2022

Fully-funded attendance to 'Bringing Chemistry, Physics and Computing to Life' *Ideas Lab* workshop,
Templeton Foundation - UMBC, 2022

Cross-Disciplinary Fellowship, Human Frontier Science Program, 2021

Fellowship to build an Origins Simulator, Origins Center (NWA-NWO), 2017

IMPACT Award, University College London, 2014

Fellowship for PhD study in Europe, 'la Caixa' Foundation, 2014

Extraordinary prize to the highest-achieving student in Biochemistry B.S., Universitat Autònoma de Barcelona,
2012

Languages

English: Full proficiency
Spanish: Native
Catalan: Native
German: Beginner
Japanese: Beginner

Synergistic activities

2022 - present: Editor for a Special Issue of *Life* journal (2075-1729; MDPI) titled 'The Origin and Early Evolution of Life: Prebiotic Chemistry Perspective'

2021 - present: Member of the Working Group on abiogenesis, European Astrobiology Institute

2021 - present: Member of the Network of Researchers on the Chemical Evolution of Life (NoRCEL)

2021 - present: Member of SAGANet

2021 - present: Topic Editor for *Symmetry* journal (2073-8994; MDPI)

2021 - present: Network for Ocean Worlds (NOW) Affiliate

2020: Planetary science PEPSci-2 consortium PhD selection panel

2020 - present: Member of the international [Origin of Life Early-career Network](#) (OoLEN)

2018 – present: Management committee for COST Action 'Chemobionics'

2018 - present: Member of the Origins Center

I am an active reviewer for scientific journals covering a wide range of topics. I often peer-review papers submitted to Nature, PNAS, Frontiers in Microbiology, Astrobiology, Life, Minerals, DNA and Cell Biology, and Evolution.

Teaching and supervising experience

I have supervised the work of 1 PhD, 6 master, and 5 bachelor students.

2020, 2019: Lecturing 'Planetology, an introduction' (Utrecht University, NL) to 3rd year Geosciences students

2017, 2016: Lecturing 'Energy and evolution' (UCL, UK) to 2nd year Biological Sciences students

Industrial innovation

2020: Co-development of pressure-resistant glass microfluidics chips with Micronit Micro Technologies B.V. (NL)

2020: Co-development of a [high-pressure hydrogen solubilisation unit](#) with Da Vinci Laboratory Solutions (NL)

Research expeditions

2018: Research expedition with Dr Helen King (Utrecht University) to Rio Tinto (Spain) to study phosphate O isotopes as a tracer of life in extreme environments (funding by EuroPlanet, 2017)

Conference organisation and chairing

2021: Workshop 'Out-of-Equilibrium Systems, Emergence and Life', Lorentz Center-Online (Leiden, NL)

2018: Symposium 'Origins Symposium – Tracing life's emergence and preservation', Utrecht University (Utrecht, NL)

2018: Chaired 'Prebiotic chemistry', 1st Interdisciplinary Origin of Life meeting (Düsseldorf, Germany)

2018: Chaired 'The building blocks of life', European Astrobiology Network Association meeting (Berlin, Germany)

2015: Astrobiology Society of Britain (ASB06) conference, University College London-Birkbeck (London, UK)

2014: UCL's Origin of life open symposium, University College London (London, UK)

Conference contributions

Oral (IT = Invited Talk):

2022: IT - The role of vectorial chemistry at life's emergence; MPIA's conference 'Towards Molecular Complexity: At the crossroads between astrophysics and biochemistry', Heidelberg (Germany)

2021: IT - Metal sulphides as primitive energy-coupling systems on the early Earth and beyond; HPSTAR Beijing (China) seminar, Online

2021: IT - Metal sulphides as primitive energy-coupling systems on the early Earth and beyond; 2nd Origins Center (Netherlands) conference, Online

2020: IT - An experimental high-pressure Origins Simulator to study the emergence of life on Earth; 2nd Interdisciplinary Origin of Life (IOoL) meeting, Online

2019: IT - An experimental high-pressure Origins Simulator to study the emergence of life on Earth; Netherlands Institute for Space Research (SRON) seminar, Groningen (Netherlands)

2019: IT - An experimental high-pressure Origins Simulator to study the emergence of life on Earth; Earth-Life Science Institute (ELSI) seminar, Tokyo (Japan)

2019: IT - An experimental Origins Simulator to study the emergence of life on Earth – When, where, how and why; Centre de Biophysique Moléculaire (CBM) seminar, Orléans (France)

2019: IT - An experimental Origins Simulator to study the emergence of life on Earth – When, where, how and why; FEST (Utrecht University's Earth Sciences department seminar), Utrecht (Netherlands)

2019: An origins simulator – Could natural pH gradients have powered the origin of life?; Netherlands Aardwetenschappelijk congress (NAC), Utrecht (Netherlands)

2019: IT - An origins simulator – Did vectorial electrochemistry power the emergence of life?; 30/80 meeting celebrating 30 years of the alkaline vent hypothesis and Mike Russell's 80th birthday, Granada (Spain)

2018: IT - The emergence of life on Earth, Mars and beyond; KNGMG Kringendag/Symposium at the Vrije Universiteit, Amsterdam (Netherlands)

2018: IT - An origins simulator – Could pH gradients have powered the origin of life?; ExoOceans workshop by the International Space Science Institute (ISSI), Bern (Switzerland)

2018: IT - An origins simulator – Could natural pH gradients have powered the origin of life?; European Astrobiology Network Association (EANA) conference, Berlin (Germany)

2017: Alkaline hydrothermal vents as electrochemical reactors driving an autotrophic origin of life; The International Society for the Study of the Origin of Life (ISSOL) meeting, San Diego (USA)

2017: IT - Acetyl phosphate and the origin of life at alkaline hydrothermal vents; Genetics, Evolution and Environment (GEE) department symposium UCL, London (United Kingdom)

2016: Alkaline hydrothermal vents as electrochemical reactors driving an autotrophic origin of life; European Astrobiology Network Association (EANA) conference, Athens (Greece)

Poster:

2018: An origins simulator - Origins Center's gamechanger 1; A roadmap for universal life workshop by the Lorentz Center, Leiden (Netherlands)

2018: Alkaline hydrothermal vents as electrochemical reactors driving an autotrophic origin of life; Earth-Life Science Institute (ELSI) 6th International Symposium, Tokyo (Japan)

2018: An origin of life simulator in order to mimic the emergence of proto-metabolism in the far-from-equilibrium conditions of Hadean Earth; Origins Center fellows kick-off meeting, Utrecht (Netherlands)

2017: Controversies on the origin of life; ASB07 meeting, Milton Keynes (United Kingdom)

2016: Controversies on the origin of life; AbGradE (Astrobiology Graduates in Europe) conference, Athens (Greece)

2015: Proto-metabolic flux leading to polymerisation at life's origin; ASB06 meeting, London (United Kingdom)

2015: Proto-metabolic flux leading to polymerisation at life's origin; EANA conference, Noordwijk (Netherlands)