

Curriculum vitae

Dr. Cornelia MEINERT

Chargé de Recherche classe normal, CNRS : section 13

Institut de Chimie de Nice (ICN), CNRS UMR 7272
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PROFESSIONAL EMPLOYMENT AND EDUCATION

- April 2018 **HDR, Habilitation à diriger des recherches**
- Oct. 2013 – **CNRS Research Scientist (Chargé de Recherche classe normal)**, section 13
Host Institute: Institut de Chimie de Nice (ICN), Université Côte d'Azur (France)
- 2011 – 2013 **Postdoctoral fellow**, Centre National d'Études Spatiales (**CNES**)
Host Institute: ICN, Université Nice Sophia Antipolis (UNS)
Adviser: Dr. L. d'Hendecourt (Université Paris-Sud) & Prof. U. J. Meierhenrich (UNS)
Enantioselective multidimensional gas chromatographic analyses of meteoritic and laboratory produced cometary matter
- 2011 **Ph.D., Dr. rer. nat.**, in Chemistry, Martin-Luther University of Halle-Wittenberg (Germany) / Department of Effect-Directed Analysis, Helmholtz Centre for Environmental Research (UFZ), Leipzig (Germany)
Research Adviser: Dr. W. Brack / *Effect-directed analysis of environmental pollutants*

FELLOWSHIPS & AWARDS

- 2019 Société Chimique de France, Prix Jeune Chercheur - Division Chimie-physique
- 2018 ERC Starting Grant 'A-Life' (HORIZON2020, Europe)
- 2018 [Prix d'Excellence d'Université Côte d'Azur](#)
- 2018 [CNRS Bronze Medal](#)
- 2018 [Société Française d'Exobiologie](#) (SFE), Prix Jeune Chercheur

COMMISSIONS OF TRUST

- 2018 – 2022 Executive Councilor of the *French Astrobiology Society* ([SFE](#))
- 2017 – 2020 Executive Councilor of *The International Society for the Study of the Origin of Life* ([ISSOL](#))

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

German Chemical Society, GDCh (since 2009), *ISSOL* (since 2014), *Société Française d'Exobiologie*, SFE (since 2016), *Société Chimique de France*, SCF (since 2018)

RESEARCH

My research interests focus on the origin of life; mainly on the origin and the detection of chiral molecules in interstellar dust particles, comets, meteorites and on the surface of other planetary bodies. Particularly, the photochemical formation of organic molecules and their evolution in interstellar environments triggered by *circularly polarized photons* are key questions of my work.

Therefore, I am applying *i*) advanced analytical techniques such as enantioselective **multidimensional gas chromatography**, *ii*) solid-state **asymmetric photochemistry using UV-circularly polarized laser and synchrotron radiation (Synchrotron SOLEIL, Beamline DESIRS (France), as well as iii) chiroptical spectroscopy at the Centre for Storage Ring Facilities Aarhus, ISA, Beamline AU-CD/CD1 (Denmark) for CD & anisotropy spectroscopy in the VUV.**