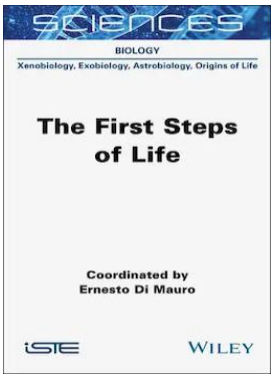
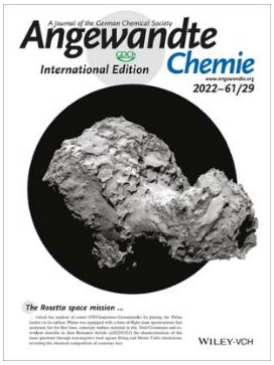
1. Leseigneur G., Meierhenrich U.J.: *Chirality and the Origins of Life*. In: *The First Steps of Life*. Edited by Ernesto Di Mauro. Wiley (2024), p. 31–53. PDF



2. Banreti A., Bhattacharya S., Wien F., Matsuo K., Réfrégiers M., Meinert C., Meierhenrich U., Hudry B., Thompson D., Noselli S.: Biological effects of the loss of homochirality in a multicellular organism. *Nature Communications* **13** (2022), 7059. PDF

3. Leseigneur G., Bredehöft J.H., Gautier T., Giri C., Krüger H., MacDermott A.J., Meierhenrich U.J.,* Munoz Caro G., Raulin F., Steele A., Steininger H., Szopa C., Thiemann W., Ulamec S., Goesmann F.: ESA's Cometary Mission Rosetta - Re-characterization of the COSAC mass spectrometry results. *Angew. Chem. Int. Ed.* **61** (2022), e202201925. Backcover Article. PDF



4. Leseigneur G., Bredehöft J.H., Gautier T., Giri C., Krüger H., MacDermott A.J., Meierhenrich U.J.,* Munoz Caro G., Raulin F., Steele A., Szopa C., Thiemann W., Ulamec S., Goesmann F.: COSAC's only gas chromatogram taken on comet 67P/Churyumov-Gerasimenko. *ChemPlusChem* **87** (2022), e202200116. PDF

5. Meinert C., Garcia A.D., Topin J., Jones N.C., Diekmann M., Berger R., Nahon L., Hoffmann S.V., Meierhenrich U.J.: Amino acid gas phase circular dichroism and implications for the origin of biomolecular asymmetry. *Nature Communications* **13** (2022), 502. PDF

6. Gal, J.-F., Maria P.-C., Dunach E., Meierhenrich U.J.: Evolution of Chemical Research in Nice, Côte d'Azur: From Early Laboratories to the 'Institut de Chimie de Nice'. *ChemPlusChem* **87** (2022), 1–9. PDF

7. Leseigneur G., Filippli J.-J., Baldovini N., Meierhenrich U.: Absolute Configuration of Aliphatic Hydrocarbon Enantiomers Identified by Gas Chromatography: Theorized Application for Isoprenoid Alkanes and the Search of Molecular Biosignatures on Mars. *Symmetry* **14** (2022), 326. PDF

8. Garcia A.D., Meinert C., Finger F., Meierhenrich U.J., Hejl E.: Racemate resolution of alanine and leucine on homochiral quartz, and its alteration by strong radiation damage. *Life* **11** (2021) 1222. PDF

9. Bockova J., Jones N.C., Meierhenrich U.J., Hoffmann S.V., Meinert C.: Chiroptical activity of hydroxycarboxylic acids: implications for the origin of biological homochirality. *Communications Chemistry*, **4** (2021) 1–9. PDF

10. Pepino R., Garcia A.D., Bockova J., Garcia A., Danger G., Meierhenrich U.J., Meinert C.: Les innombrables applications de la chromatographie bidimensionnelle en phase gazeuse. *L'Actualité Chimique* **459** (2021), 20–26. PDF

11. Leseigneur G., Garcia A.D., Meinert C., Le Sergeant d'Hendecourt L., Meierhenrich U.J.: Rosetta and ExoMars sur les traces des origines moléculaires de la vie. *L'Actualité Chimique* **455** (2020), 17–23. PDF

12. Aerts J.W., Riedo A., Melton D.J., Martini S., Flahaut J., Meierhenrich U.J., Meinert C., Myrgorodska I., Lindner R., Ehrenfreund P.: Biosignature Analysis of Mars Soil Analogs from the Atacama Desert: Challenges and Implications for Future Missions to Mars. *Astrobiology* **20** (2020), 766–784. PDF

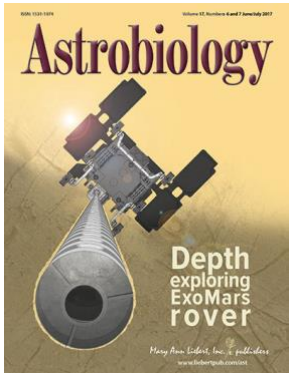
13. Garcia A.D., Meinert C., Sugahara H., Jones N.C., Hoffmann S.V., Meierhenrich U.J.: The Astrophysical Formation of Asymmetric Molecules and the Emergence of a Chiral Bias. *Life* **9** (2019), 1–21. PDF

14. D'Hendecourt L., Modica P., Meinert C., Nahon L., Meierhenrich U.J.: Interstellar ices: a possible scenario for symmetry breaking of extraterrestrial chiral organic molecules of prebiotic interest. *arXiv* **9** (2019), 1–18 (arXiv:1902.04575). PDF

15. Sugahara H., Meinert C., Nahon L., Jones N.C., Hoffmann S.V., Hamase K., Takano Y., Meierhenrich U.J.: D-Amino acids in molecular evolution in space - Absolute asymmetric photolysis and synthesis of amino acids by circularly polarized light. *BBA - Proteins and Proteomics* **1866** (2018), 743–758. PDF

16. Tissandié L., Viciana S., Brevard H., Meierhenrich U.J., Filippi.: Towards a complete characterisation of guaiacwood oil. *Phytochemistry* **149** (2018), 64–81. PDF

17. Tissandié L., Brevard H., Belhassen E., Alberola M., Meierhenrich U., Filippi J.-J.: Integrated Comprehensive Two-dimensional Gas- Chromatographic and Spectroscopic Characterization of Vetiveryl Acetates: Molecular Identifications, Quantification of Constituents, Regulatory and Olfactory Considerations. *Journal of Chromatography A*, **1573** (2018) 125–150. PDF

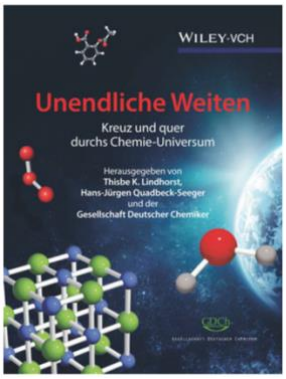
18. 

Vago J. L., Westall F., Coates A. J., Jaumann R., Korablev O., Ciarletti V., Mitrofanov I., Josset J.-L., De Sanctis M. C., Bibring J.-P., Rull F., Goesmann F., Steininger H., Goetz W., Brinckerhoff W., Szopa C., Raulin F., Edwards H. G. M., Whyte L. G., Farién A. G., Bridges J., Hauber E., Ori G. G., Werner S., Loizeau D., Kuzmin R. O., Williams R. M. E., Flahaut J., Forget F., Rodionov D., Korablev O., Svedhem H., Sefton-Nash E., Kminek G., Lorenzoni L., Joudrier L., Mikhailov V., Zashchirinskiy A., Alexashkin S., Calantropio F., Merlo A., Poulakis P., Witasse O., Bayle O., Bayon S., Meierhenrich U. J., Carter J., Garcia-Ruiz J. M., Baglioni P., Haldemann A., Ball A. J., Debus A., Lindner R., Haessig F., Monteiro D., Trautner R., Voland C., Rebeyre P., Goulty D., Didot F., Durrant S., Zekri E., Koschny D., Toni A., Visentin G., Zwick M., von Winnendael M., Azkarate M., Carreau C., and the ExoMars Project Team: Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. *Astrobiology* **17** (2017), 471–510. PDF

19. Goesmann F., Brinckerhoff W. B., Raulin F., Goetz W., Danell R. M., Getty S. A., Siljeström S., Missbach H., Steininger H., Arevalo Jr., R. D., Buch A., Freissinet C., Grubisic A., Meierhenrich U. J., Pinnick V. T., Stalport F., Szopa C., Vago J. L.,

Lindner R., Schulte M. D., Brucato J. R., Glavin D. P., Grand N., Li X., van Amerom F. H. W., the MOMA Science Team: The Mars Organic Molecule Analyser (MOMA) Instrument: Characterization of Organic Material in Martian Sediments. *Astrobiology* **17** (2017), 655–685. PDF

20. Meierhenrich U.J.: Review of *A World From Dust* by Ben McFarland. *Angewandte Chemie International Edition* **56** (2017), 1702. PDF



21. Meierhenrich U.J.: *Chemie im Weltall - die Mission Rosetta-Philae*. In: Lindhorst, Quadbeck-Seeger: Unendliche Weiten, Wiley-VCH, 2017. PDF

22. Tissandié L., Gaysinski M., Brévard H., Meierhenrich U.J., Filippi J.-J.: Revisiting the chemistry of guaiacwood oil: identification and formation pathways of 5,11- and 10,11-epoxyguaianes. *Journal of Natural Products* **80** (2017), 526–537. PDF

23. Myrgorodska I., Javelle T., Meinert C., Meierhenrich U.J.: Enantioresolution and quantification of monosaccharides by comprehensive two-dimensional gas chromatography. *Journal of Chromatography A* **1487** (2017), 248–253. PDF

24. Myrgorodska I., Meinert C., Hoffmann S., Jones N.C., Nahon L., Meierhenrich U.J.: Light on Chirality: Absolute Asymmetric Formation of Chiral Molecules Relevant in Prebiotic Evolution. *ChemPlusChem* **82** (2017), 74–87. PDF

25. De Marcellus P., Fresneau A., Brunetto R., Danger G., Duvernay F., Meinert C., Meierhenrich U.J., Borondics F., Chiavassa T., Le Sergeant d'Hendecourt L.: Photo the thermochemical evolution of astrophysical ice analogues as a source for soluble and insoluble organic materials in Solar system minor bodies. *Monthly Notices of the Royal Astronomical Society* **464** (2017), 114–120. PDF

26. Meinert C., Myrgorodska I., de Marcellus P., Buhse T., Nahon L., Hoffmann S.V., d'Hendecourt L., Meierhenrich U.J.: Ribose and related sugars from ultraviolet irradiation of interstellar ice analogs. *Science* **352** (2016), 208–212. PDF

27. Cerutti-Delasalle C., Mehiri M., Cagliero C., Rubiolo P., Bicchi C., Meierhenrich U.J., Baldovini N.: The (+)-*cis*- and (+)-*trans*-Olibanic Acids: Key Odorants of Frankincense. *Angewandte Chemie International Edition* **55** (2016), 13719–13723. PDF

28. Nahon L., Nag L., Garcia G.A., Myrgorodska I., Meierhenrich U.J., Beaulieu S., WanieV., Blanchet V., Géneaux R., Powis I.: Determination of accurate electron chiral asymmetries in fenchone and camphor in the VUV range: sensitivity to isomerism and enantiomeric purity. *Phys. Chem. Chem. Phys.* **18** (2016), 12696–12706. PDF

29. Myrgorodska I., Javelle T., Meinert C., Meierhenrich U.J.: Enantioselective gas chromatography in search of the origin of biomolecular asymmetry in outer space. *Israel Journal of Chemistry* **56** (2016), 1016–1026. PDF

30. Myrgorodska I., Meinert C., Martins Z., d'Hendecourt L., Meierhenrich U.J.: Quantitative enantioseparation of amino acids by comprehensive two-

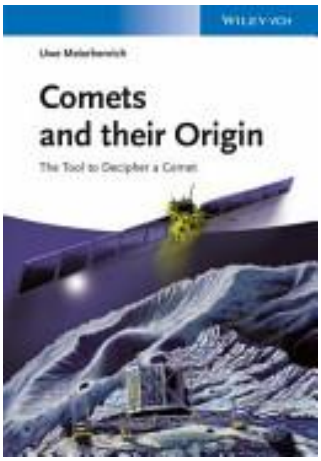
dimensional gas chromatography applied to non-terrestrial samples. *Journal of Chromatography A* **1433** (2016), 131–136. PDF

31. Giri C., McKay C.P., Goesmann F., Schäfer N., Li X., Steininger H., Brinckerhoff W.B., Gautier T., Reitner J., Meierhenrich U.J.: Carbonization in Titan Tholins: implication for low albedo on surfaces of Centaurs and trans-Neptunian objects. *Internat. Journal of Astrobiology* **15** (2016), 231–238. PDF

32. Goetz W., Brinckerhoff W.B., Arevalo Jr. R., Freissinet C., Getty S., Glavin D.P., Siljeström S., Buch A., Stalport F., Grubisic A., Li X., Pinnick V., Danell R., van Amerom F.H.W., Goesmann F., Steininger H., Grand N., Raulin F., Szopa C., Meierhenrich U.J., Brucato J.R. and the MOMA Science Team. *International Journal of Astrobiology* **15**(2016), 239–259. PDF

33. Meinert C., Jones N.C., Hoffmann S.V., Meierhenrich U.J.: Anisotropy spectroscopy of chiral alcohols, amines, and monocarboxylic acids: implications for the analyses of extraterrestrial samples. *Journal of Photochemistry and Photobiology A: Chemistry* **331**(2016), 130–137. PDF

34. Tascone O., Roy C., Meierhenrich U.J.: Pesticide determination in rose concrete and rose absolute using dispersive-solid phase extraction followed by gas chromatography-tandem mass spectrometry. *Flavor and Fragrance Journal* **31** (2016), 87–94. PDF



35. Meierhenrich U.J.: *Comets and their Origin - The Tool to Decipher a Comet*. ISBN 978-3-527-41281-5, 352 p., Hardcover, Wiley-VCH, Weinheim (2015). PDF

36. Goesmann F., Rosenbauer H., Bredehöft J.H., Cabane M., Ehrenfreund P., Gautier T., Giri C., Krüger H., Le Roy L., MacDermott A.J., McKenna-Lawler S., Meierhenrich U.J., Munoz Caro G.M., Raulin F., Roll R., Steele A., Steininger H., Sternberg R., Szopa C., Thiemann W., Ulamec S.: Organic compounds on comet 67P/Churyumov-Gerasimenko revealed by COSAC mass spectrometry. *Science* **349** (2015), aab0689. PDF

37. de Marcellus P., Meinert C., Myrgorodska I., Nahon L., Buhse T., Le Sergeant d'Hendecourt L., Meierhenrich U.J.: Aldehydes and sugars from evolved precometary ice analogs: Importance of ices in astrochemical and prebiotic evolution. *Proc. Natl. Acad. Sci. USA* **112** (2015), 965–970. PDF

38. Myrgorodska I., Meinert C., Martins Z., Le Sergeant d'Hendecourt L., Meierhenrich U.J.: Molecular chirality in meteorites and interstellar ices, and the chirality experiment on board the ESA cometary Rosetta mission. *Angewandte Chemie International Edition***54** (2015), 1402–1412. PDF

39. Giri C., Goesmann F., Steele A., Gautier T., Steininger H., Krüger H., Meierhenrich U.J.: Competence evaluation of COSAC flight spare model mass spectrometer: in preparation of arrival of Philae lander on comet 67P/Churyumov-Gerasimenko. *Planetary and Space Science* **106** (2015), 132–141. PDF

40. Meinert C., Cassam-Chenaï P., Jones N.C., Nahon L., Hoffmann S.V., Meierhenrich U.J.: Anisotropy-guided enantiomeric enhancement in alanine using far-UV circularly polarized light. *Origins of Life and Evolution of Biospheres* **45** (2015), 149–161. PDF

41. Tascone O., Fillâtre Y., Roy C., Meierhenrich U.J.: Behavior of multiclass pesticide residue concentrations during the transformation from rose petals to rose absolute. *Journal of Agricultural and Food Chemistry* **63** (2015), 4922–4932. PDF

42. Filippi J.-J., Cocolo N., Meierhenrich U.J.: Peak-bridges due to in-column analyte transformations as a new tool for establishing molecular connectivities by comprehensive two-dimensional gas chromatography-mass spectrometry. *Journal of Chromatography A* **1383** (2015), 134–143. PDF

43. Meinert C., Hoffmann S.V., Cassam-Chenaï P., Evans A.C., Giri C., Nahon L., Meierhenrich U.J.: Photonenergy-controlled symmetry breaking with circularly polarized light. *Angewandte Chemie International Edition* **53** (2014), 210–214. PDF

44. Meinert C., Meierhenrich U.J.: Derivatization and Multidimensional Gas-Chromatographic Resolution of alpha-Alkyl and alpha-Dialkyl Amino Acid Enantiomers. *ChemPlusChem* **79** (2014), 781–785. PDF

45. Szopa C., Sternberg R., Coscia D., Goesmann F., Gomes R., Legrand S., Jerome M., Meierhenrich U.J., Raulin F.: Gas chromatography for in situ analysis of a cometary nucleus V. Study of capillary columns' robustness submitted to long-term reduced environmental pressure conditions. *Journal of Chromatography A* **1368** (2014), 211–216. PDF

46. Goesmann F., Raulin F., Bredehöft J.H., Cabane M., Ehrenfreund P., MacDermott A.J., McKenna-Lawlor S., Meierhenrich U.J., Muñoz Caro G.M., Szopa C., Sternberg R., Roll R., Thiemann W.H.-P., Ulamec S.: COSAC prepares for sampling and in situ analysis of cometary matter from comet 67P/Churyumov-Gerasimenko. *Planetary and Space Science* **103** (2014), 318–330. PDF

47. Tascone O., Shirshikova M., Roy C., Meierhenrich U. J.: Pesticide determination in rose petals using dispersive solid-phase extraction followed by gas chromatography-tandem mass spectrometry. *Analytical and Bioanalytical Chemistry* **406** (2014), 8041–8048. PDF

48. Tascone O., Roy C., Filippi J.-J., Meierhenrich U. J.: Use, analysis, and regulation of pesticides in natural extracts, essential oils, concretes, and absolutes. *Analytical and Bioanalytical Chemistry* **406** (2014), 971–980. PDF

49. Delasalle C., de March C.A., Meierhenrich U.J., Brevard H., Golebiowski J., Baldovini N.: Structure-Odor relationship of semisynthetic beta-santalol analogs. *Chemistry & Biodiversity* **11** (2014), 1843–1860. PDF

50. Belhassen E., Baldovini N., Brevard H., Meierhenrich U.J., Filippi J.-J.: Unravelling the scent of vetiver: Identification of character-impact compounds. *Chemistry & Biodiversity* **11** (2014), 1821–1842. PDF

51. Modica P., Meinert C., de Marcellus P., Nahon L., Meierhenrich U.J., d'Hendecourt L.: Enantiomeric excesses induced in amino acids by ultraviolet circularly polarized light irradiation of extraterrestrial ice analogs: a possible source of asymmetry for prebiotic molecules. *The Astrophysical Journal* **788** (2014), 79. PDF

52. Evans A. C., Meinert C., Bredehöft J. H., Giri C., Jones N. C., Hoffmann S. V., Meierhenrich U. J.: Anisotropy spectra for enantiomeric differentiation of biomolecular building blocks. *Topics in Current Chemistry* **341** (2013), 271–300. PDF

53. Bredehöft J.H., Jones N.C., Meinert C., Hoffmann S.V., Evans A.C., Meierhenrich U. J.: Understanding Photochirogenesis - solvent-effects on circular dichroism and anisotropy spectroscopy. *Chirality* **26** (2014), 373–378. PDF

54. Meierhenrich U. J., Cason J. R. L., Szopa C., Sternberg R., Raulin F., Thiemann W. H.-P., Goesmann F.: Evaluating the robustness of the enantioselective stationary phases on the Rosetta mission against space vacuum vaporization. *Advances in Space Research* **52** (2013), 2080–2084. PDF

55. Giri C., Goesmann F., Meinert C., Evans A. C., Meierhenrich U. J.: Synthesis and Chirality of Amino Acids Under Interstellar Conditions. *Topics in Current Chemistry* **333**(2013), 41–82. PDF

56. Meierhenrich U. J.: Amino Acids and the Asymmetry of Life. *European Review* **21** (2013), 190–199. PDF

57. Filippi J.-J., Belhassen E., Baldovini N., Brevard H., Meierhenrich U. J.: Qualitative and quantitative analysis of vetiver essential oils by comprehensive two-dimensional gas chromatography/mass spectrometry. *J. Chrom. A* **1288** (2013), 127–148. PDF

58. Meinert C., Meierhenrich U. J.: A New Dimension in Separation Science - Comprehensive Two-Dimensional Gas Chromatography. *Angew. Chem. Int. Ed.* **51** (2012), 10460–10470. PDF

59. Evans A., Meinert C., Giri C., Goesmann F., Meierhenrich U. J.: Chirality, Photochemistry and the Detection of Amino Acids in Interstellar Ice Analogues and Comets. *Chem. Soc. Rev.* **41** (2012), 5447–5458. PDF

60. Meinert, C., Bredehöft J. H., Filippi J.-J., Baraud Y., Nahon L., Wien F., Jones N. C., Hoffmann S. V., Meierhenrich U. J.: Anisotropy Spectra of Amino Acids. *Angew. Chem. Int. Ed.* **51** (2012), 4484–4487. PDF Abstract

61. Meinert, C., Filippi J.-J., de Marcellus P., le Sergeant d'Hendecourt L., Meierhenrich U. J.: N-(2-Aminoethyl)glycine and Amino Acids in Interstellar Ice Analogues. *ChemPlusChem* **77** (2012), 186-191. PDF Abstract

62. Goesmann F., McKenna-Lawlor S., Roll R., Bredehöft J. H., Meierhenrich U., Raulin F., Thiemann W., Muñoz Caro G. M., Szopa C.: Interpretation of COSAC mass spectrometer data acquired during Rosetta's Lutetia fly-by 10 July 2010. *Planetary and Space Science* **66** (2012), 187-191. PDF Abstract

63. Paillat L., Périchet C., Pierrat J.P., Lavoine S., Filippi J.-J., Meierhenrich U. J., Fernandez X.: Purification of vetiver alcohols and esters for quantitative high-performance thin-layer chromatography determination in Haitian vetiver essential oils and vetiver acetates. *Journal of Chromatography A* **1241** (2012), 103-111. PDF Abstract

64. Paillat L., Périchet C., Lavoine S., Meierhenrich U. J., Fernandez X.: Validated high-performance thin-layer chromatography (HPTLC) method for quantification of vanillin beta-D-glucoside, and four major phenolic compounds in vanilla (Vanilla planifolia) fruits, beans, and extracts. *Journal of Planar Chromatography* **25** (2012), 295-300. PDF Abstract

65. Paillat L., Périchet C., Lavoine S., Meierhenrich U. J., Fernandez X.: Validated high-performance thin-layer chromatographic method for the determination of nicotine in Tobacco (*Nicotinia tabaccum* L.) extracts. *Journal of Planar Chromatography* **25** (2012), 23-29. PDF Abstract

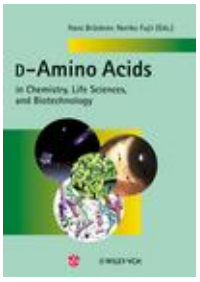
66. Meierhenrich U. J.: Life in Its Uniqueness Remains Difficult to Define in Scientific Terms. *Journal of Biomolecular Structure & Dynamics* **29** (2012), 641-642. PDF Abstract

67. Meierhenrich U. J.: Book review "On Being. A Scientist's Exploration of the Great Questions of Existence" by Peter Atkins. *Angewandte Chemie International Edition* **50**(2011), 9240. PDF Abstract

68. Meierhenrich U. J.: Im Weltall: RNA-Vorläufer in Kometen. In: *Moleküle aus dem All.* Ed. Al-Shamery K., Wiley-VCH (2011), 53-64. PDF Abstract

69. Meinert C., De Marcellus P., Le Sergeant d'Hendecourt L., Nahon L.,Jones N. C., Hoffmann S. V., Bredehöft J. H., Meierhenrich U. J.: Photochirogenesis: Photochemical Models on the Absolute Asymmetric Formation of Amino Acids in Interstellar Space. *Physics of Life Reviews* **8** (2011), 307-330; 337-338. PDF Abstract

70. De Marcellus P., Meinert C., Nuevo M., Filippi J.-J., Danger G., Deboffle D., Nahon L., Le Sergeant d'Hendecourt L., Meierhenrich U. J.: Non-Racemic Amino Acid Production by Ultroviolet Irradiation of Achiral Interstellar Ice Analogs with Circularly Polarized Light. *The Astrophysical Journal Letters* **727** (2011), L27. PDF Abstract

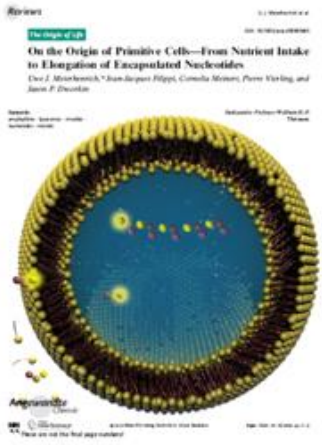


71. Meierhenrich U. J., Filippi J.-J., Meinert C., Hoffmann S. V., Bredehöft J. H., Nahon L.: Photolysis of *rac*-Leucine with Circularly Polarized Synchrotron Radiation. In: *D-Amino Acids in Chemistry, Life Sciences, and Biotechnology.* Eds. Brückner H., Fujii N. Wiley-VCH (2011), 341-349. PDF Abstract

72. Brack A., Meierhenrich U.J., Nahon L.: Le rayonnement synchrotron et l'asymétrie du vivant. *L'Actualité Chimique***356-357** (2011), 100-101. PDF Abstract

73. Meierhenrich U.J., Filippi J.-J., Meinert C., Bredehöft J.H., Takahashi J., Nahon L., Jones N.C., Hoffmann S.V.: Circular Dichroism of Amino Acids in the Vacuum-Ultraviolet Region. *Angewandte Chemie International Edition* **49** (2010), 7799-7802. PDF Abstract

74. Meierhenrich U.J., Filippi J.-J., Meinert C., Vierling P.,Dworkin J. P.: On the origin of primitive cells - from nutrient intake to elongation of encapsulated nucleotides. *Angewandte Chemie International Edition* **49** (2010), 3738-3750. PDF Abstract



75. Meierhenrich U. J., Filippi J.-J., Meinert C., Hoffmann S. V., Bredehöft J. H., Nahon L.: Photolysis of rac-Leucine with Circularly Polarized Synchrotron Radiation. *Chemistry & Biodiversity* **7** (2010), 1651-1659. PDF Abstract

76. Meinert C., Filippi J.-J., Nahon L., Hoffmann S.V., d'Hendecourt L., de Marcellus P., Bredehöft J.H., Thiemann W.H.-P., Meierhenrich U. J.: Photochirogenesis: photochemical models on the origin of biomolecular homochirality. *Symmetry* **2** (2010), 1055-1080. PDF Abstract

77. Adrian-Scotto M., Antonczak S., Bredehöft J. H., Hoffmann S. V., Meierhenrich U. J.: Chiroptical properties of amino acids: a density functional theory study. *Symmetry* **2**(2010), 935-949. PDF Abstract

78. Nuevo M., Bredehöft J. H., Meierhenrich U. J., d'Hendecourt L., Thiemann W. H.-P.: Urea, glycolic acid, and glycerol in an organic residue produced by ultraviolet irradiation of interstellar/precometary ice analogs. *Astrobiology* **10** (2010), 245-256. PDF Abstract

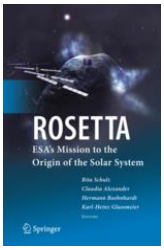
79. Perriot R., Breme K., Meierhenrich U. J. Carenini E., Ferrando G., Baldovini N.: Chemical composition of French Mimosa Abolute Oil. *Journal of Agricultural and Food Chemistry* **58** (2010), 1844-1849. PDF Abstract

80. Breme K., Tournayre P., Fernandez X., Meierhenrich U. J., Brevard H., Joulain D., Berdagué J. L.: Characterization of volatile compounds of Indian cress absolute by GC-olfactometry/VIDEO-sniff and comprehensive two-dimensional gas chromatography. *Journal of Agricultural and Food Chemistry* **58** (2010), 473-480. PDF Abstract

81. Meierhenrich U.J.: Aminosäuren und die Entstehung des Lebens. Spuren aus dem Weltraum. *Chemie in unserer Zeit* **43** (2009), 204-209. PDF Abstract

82. Breme K., Tournayre P., Fernandez X., Meierhenrich U.J., Brevard H., Joulain D., Berdague J.-L.: Identification of Odor Impact Compounds of *Tagetes minuta* L. Essential Oil: Comparison of Two GC-Olfactory Methods. *Journal of Agricultural and Food Chemistry* **57**(2009), 8572-8580. PDF Abstract

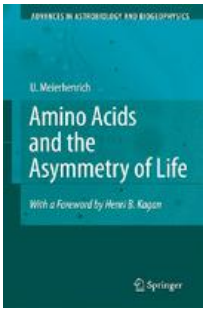
83. Laouer H., Boulaacheb N., Akkal S., Meierhenrich U. J., Baldovini N., Prado S.: Composition and in vitro activities of the essential oils of two populations of thymus numidicus poiret. *Journal of Essential Oil Research* **21** (2009), 374-377. PDF Abstract



84. Goesmann F., Rosenbauer H., Roll R., Szopa C., Raulin F., Sternberg R., Israel G., Meierhenrich U. J., Thiemann W., Munoz Caro G. M.; The cometary sampling and composition experiment on Philae. In: ROSETTA - ESA's Mission to the Origin of the Solar System. Eds. Schulz R., Alexander C., Boehnhardt H., Glassmeier K. H., Springer, New York (2009), 633-650. PDF Abstract

85. Breme K., Guillamon N., Fernandez X., Tournayre P., Brevard H., Joulain D., Berdagué J.L., Meierhenrich U.J.: First identification of O,S-diethyl thiocarbonate in Indian cress absolute and odor evaluation of its synthesized homologues by GC-sniffing. *Journal of Agricultural and Food Chemistry* **57** (2009), 2503-2507. PDF Abstract

86. Breme K., Langle S., Fernandez X., Meierhenrich U.J., Brevard H., Joulain D.: Character impact odorants from Brassicaceae by aroma extract dilution analysis (AEDA): Brassica cretica and Brassica insularis. *Flavour and Fragrance Journal* **24**(2009), 88-93. PDF Abstract

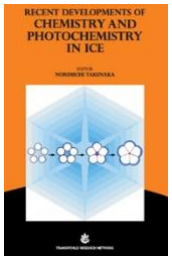


87. Küppers M., Keller H.U., Kührt E., A'Hearn M.F., Altwegg K., et al.: Triple F - a comet nucleus sample return mission. *Experimental Astronomy* **23** (2009), 809-847. PDF Abstract

88. Meierhenrich U.J.: Amino Acids and the Asymmetry of Life - Caught in the Act of Formation. ISBN 978-3-540-76885-2, 230 p., approx. 77 illustrations, 24 in color, Hardcover, Springer, Berlin, Heidelberg, New York (2008). PDF Abstract

89. Delasalle C., Baldovini N., Meierhenrich U.J.: Evolution des techniques d'analyse du vin - de la chromatographie multidimensionnelle à l'analyse sensorielle. *Revue des Oenologues* **129** (2008), 77-79. PDF Abstract

90. Meierhenrich U.J.: Review of Origin of Life - Chemical Approach. Edited by Herdewijn P. and Kisakürek V. *Angew. Chem.* **120** (2008), 8466. PDF Abstract; *Angew. Chem. Int. Ed.* **47** (2008), 8342. PDF Abstract



91. Bredehöft J. H., Meierhenrich U.J.: Amino Acid Structures from UV Irradiation of Simulated Interstellar Ices. In: Takenaka N. (Ed.) Recent Developments of Chemistry and Photochemistry in Ice. ISBN 978-81-7895-331-1 (Hardcover), Transworld Research Network, Kerala, India (2008), pp. 175-202. PDF Abstract

92. Filippi J.-J., Dunach E., Fernandez X., Meierhenrich U.J.: Stereospecific cyclohydration of 1,4-sulfanylalcohols to thiolanes: mechanistic insights. *Tetrahedron* **64** (2008), 9999-10003. PDF Abstract

93. Breme K., Fernandez X., Meierhenrich U.: Review of Sensory-Directed Flavor Analysis (Ed. Ray Marsili). *Angew. Chem.* **120** (2008), 31-32. PDF Abstract ; *Angew. Chem. Int. Ed.* **47** (2008), 31-32. PDF Abstract

94. Breme K., Meierhenrich U.J.: Schrödinger und Boltzmann mögen es duftig. *Nachr. Chem.* **55** (2007) 1136.

95. Dahia M., Laouer H., Chaker A.N., Prado S., Meierhenrich U.J., Baldovini N.: Chemical composition and antibacterial activity of Pituranthos chloranthus volatile oil. *Nat. Prod. Commun.* **2** (2007), 1159-1162. PDF Abstract

96. Nahon L., Garcia G., Powis I., Meierhenrich U., Brack A.: Advanced search for the origin of life's homochirality: asymmetric photon induced processes on chiral compounds with far UV circularly polarized synchrotron radiation. *Proc. SPIE* **6694**(2007), 669403-1 - 669403-16. PDF Abstract

97. Nuevo M., Meierhenrich U.J.l d'Hendecourt L., Muñoz Caro G.M., Dartois E., Deboffle D., Thiemann W.H.-P., Bredehöft J.H., Nahon L.: Enantiomeric separation of complex organic molecules produced from irradiation of interstellar/circumstellar ice analogs. *Adv. Space Res.* **39** (2007), 400-404. PDF Abstract

98. Goesmann F., Rosenbauer H., Roll R., Szopa C., Raulin F., Sternberg R., Israel G., Meierhenrich U., Thiemann W., Munoz Caro G.: COSAC, the cometary sampling and composition experiment on Philae. *Space Science Reviews* **128** (2007), 257-280. PDFAbstract

99. Bredehoeft J.H., Breme K., Meierhenrich U.J., Hoffmann S.V., Thiemann W.H.-P.: Chiroptical properties of diamino carboxylic acids. *Chirality* **19** (2007), 570-573. PDFAbstract

100. Breme K., Fernandez X., Meierhenrich U. J., Brevard H., Joulain D.: Identification of new, odor-active thiocarbamates in cress extracts and structure-activity studies on synthesized homologues. *J. Agric. Food Chem. 55 (2007)* 1932-1938. PDF Abstract

101. Breme K., Fernandez X., Meierhenrich U. J.: Volatile nitrogen- and/or sulphur containing flavouring compounds. *Agro. Food Industry Hi-Tech 18 (2007)* 55-57. PDFAbstract

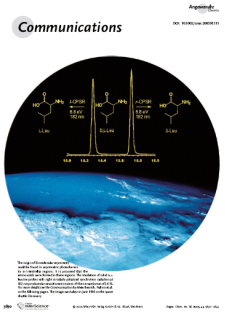
102. Laouer H., Akkal S., Debarnot C., Canard B., Meierhenrich UJ, Baldovini N.: Chemical composition and antimicrobial activity of the essential oil of Saccocalyx satureioides Coss. et Dur. *Nat. Prod. Commun. 1 (2006)* 645-650. PDF Abstract

103. Nuevo M., Meierhenrich U.J., Muñoz Caro G.M., Dartois E., d'Hendecourt L., Deboffle D., Auger G., Blanot D., Bredehöft J.H., Nahon L.: The effects of circularly polarized light on amino acid enantiomers produced by the UV irradiation of interstellar ice analogs. *Astronomy & Astrophysics 457* (2006) 741-751. PDF Abstract

104. Filippi J-J, Lanfranchi D-A, Prado S, Baldovini N, Meierhenrich UJ: Composition, Enantiomeric Distribution, and Antibacterial Activity of the Essential Oil of

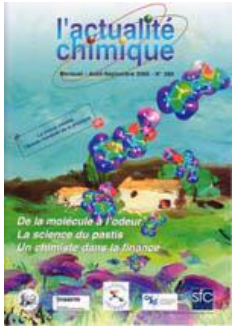
Achillea ligustica All. from Corsica. *J. Agric. Food Chem. 54 (2006) 6308-6313*. PDF Abstract

105. Meierhenrich U.J., Golebiowski J., Fernandez X., Cabrol-Bass D.: De la molécule à l'odeur - Les bases moléculaires des premières étapes d'olfaction - Partie 2/2. *Revue des Oenologues* **121 (2006)**, 17-22. PDF Abstract
106. Meierhenrich U.J., Golebiowski J., Fernandez X., Cabrol-Bass D.: De la molécule à l'odeur - Les bases moléculaires des premières étapes d'olfaction - Partie 1/2. *Revue des Oenologues* **120 (2006)**, 19-23. PDF Abstract
107. Filippi J.-J., Fernandez, X.; Loiseau A.-M.; Lizzani-Cuvelier, L. ; Meierhenrich U.: Enantiomer Separation of 1,4-Sulfanylalcohols by Conventional and Low-Temperature Gas Chromatography. *Chirality* **18 (2006)**, 558-561. PDF Full text
108. Meierhenrich U.J., Nahon L., Alcaraz C., Bredehöft J.H., Hoffmann S.V., Barbier B., Brack A.: Asymmetric Vacuum UV photolysis of the Amino Acid Leucine in the Solid State. *Angew. Chem.* **117** (2005), 5774-5779;*Angew. Chem. Int. Ed. Engl.* **44** (2005), 5630-5634. PDF Full text (engl.) | PDF Full text (german)



109. Breme K., Süß B., Meierhenrich U.J.: Precursors of living organisms identified in space. *BIOforum Europe* **9** (2005), 49-51.
110. Süß B., Breme K., Meierhenrich U.J.: Biogenese und Evolution – Identifizierung molekularer Lebensbausteine im All. *BIOforum* **11** (2005), 45-47.
111. Meierhenrich U.J., Muñoz Caro G.M., Schutte W.A., Thiemann W.H.-P. Barbier B., Brack A.: Precursors of biological cofactors from ultraviolet irradiation of circumstellar/interstellar ice analogs. *Chemistry - A European Journal* **11** (2005), 4895-4900. PDF Full text

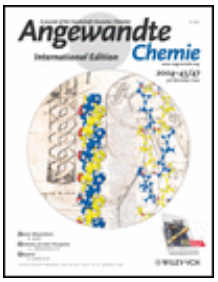
112. Breme K., Meierhenrich U.J.: Review of Chemische Evolution und der Ursprung des Lebens. *Angew. Chem.***117** (2005), 7671-7672. PDF Full text
113. Meierhenrich U.J., Golebiowski J., Fernandez X., Cabrol-Bass D.: De la molécule à l'odeur. Les bases moléculaires des premières étapes de l'olfaction. *L'Actualité Chimique* **289** (2005), 29-40.



114. Meierhenrich U.J.: Life from the Depths of Space. *German Research* **27** (2005), 17-20. PDF Full text
115. Meierhenrich U.J.: Leben aus der Tiefe des Raumes. *DFG Forschung* **1** (2005), 15-18and *DFG Forschung Spezial* (2006) 53-55. PDF Full text

116. Meierhenrich U.J.: Spontaneous generation of amino acid structures in the interstellar medium. In: Seckbach J., Chela-Flores J., Owen T., Raulin F. (Eds.) *Life in the Universe - From the Miller Experiment to the Search for Life on Other Worlds*. Vol. 7, ISBN 1-4020-2371-5 (Hardcover), ISBN 1-4020-3093-1 (Softcover), Springer-Verlag, Heidelberg, Germany (2005), 387 p. PDF Abstract

117. Rosenbauer H., Goesmann F., Roll R., Raulin F., Szopa C., Coscia D., Israel G., Brun F., Thiemann W., Meierhenrich U. and Wollnik H.: The COSAC experiment. European Space Agency, ESA SP-1165, Noordwijk, the Netherlands (2005) PDF Abstract | Cited Ref



118. Meierhenrich U.J., Golebiowski J., Fernandez X., Cabrol-Bass D.: The molecular basis of olfactory chemoreception. *Angew. Chem.* **116** (2004), 6570-6573;*Angew. Chem. Int. Ed. Engl.* **43** (2004), 6410-6412. Abstract | Cited Ref | PDF Full text*

119. Meierhenrich U.J., Muñoz Caro G.M., Bredehöft J.H., Jessberger E.K. and Thiemann W.H.-P.: Identification of diamino acids in the Murchison meteorite. *Proceedings of the National Academy of Sciences* **101** (2004), 9182-9186 Abstract | Cited Ref | PDF Full text

120. Meierhenrich U.J.: Review of Chiral Separations - Methods and Protocols. Methods in Molecular Biology. *Angew. Chem.* **116** (2004), 4347-4348; *Angew. Chem. Int. Ed. Engl.* **43** (2004), 4252-4253. Abstract | Cited Ref | PDF Full text

121. Meierhenrich U.J. and Thiemann W.H.-P.: Photochemical concepts on the origin of biomolecular asymmetry. *Origins of Life and Evolution of the Biosphere* **34** (2004), 111-121. Abstract | Cited Ref | PDF Full text

122. Muñoz Caro G.M., Meierhenrich U.J., Schutte W.A., Greenberg J.M. and Thiemann, W.: UV-photoprocessing of interstellar ice analogs: Detection of hexamethylenetetramine-based species. *Astronomy & Astrophysics* **413** (2004), 209-216. Abstract | Cited Ref | PDF Full text

123. Meierhenrich U.J., Bredehöft J.H., Thiemann W.H.-P., Goesmann F., Roll R., Hilchembach M., Rosenbauer H.: Amino acid analysis intended on the Martian surface. In: Perez-Mercader J. (ed.) Exo-Astrobiology, European Space Agency, ESA SP-545; ISBN 92-9092-856-6, Noordwijk, the Netherlands (2004), 239-240. Abstract

124. Bredehöft J.H., Thiemann W.H.-P., Meierhenrich U.J.: Separation and characterization of N-heterocyclic compounds from an interstellar mineral matrix. In: Perez-Mercader J. (ed.) Exo-Astrobiology, European Space Agency,

ESA SP-545; ISBN 92-9092-856-6,Noordwijk, the Netherlands (2004), 175-176. Abstract

125. Meierhenrich U.J., Nguyen M.-J., Barbier B., Brack A., Thiemann W.H.-P.: Gas Chromatographic Separation of Saturated Aliphatic Hydrocarbon Enantiomers on Permethylated b-Cyclodextrin. *Chirality* **15** (2003), S13-S16. Abstract | Cited Ref | PDF Full text*

126. Meierhenrich U., Thiemann W.H.-P. and Rosenbauer H.: The search for enantiomeric excesses in cometary matter. In: Celnikier L.M. and Trân Thanh Vân J. (eds.) *Frontiers of Life* . Thê Giói Publishers, Vietnam (2003), pp. 23-26. Abstract | Cited Ref

127. Meierhenrich U.J., Muñoz Caro G.M., Schutte W.A., Barbier B., Arcones Segovia A., Rosenbauer H., Thiemann W., Brack A.: Photoproduction of chiral amino acids under simulated interstellar conditions. *Origins of Life and Evolution of the Biosphere* **33**(2003), 257-258. Abstract | Cited Ref | PDF Full text

128. Meierhenrich U.J., Muñoz Caro G.M., Barbier B., Brack A., Thiemann W.H.-P., Goesmann F., Rosenbauer H.: Amino acid formation on interstellar dust particles. *Geophysical Research Abstract* **5** (2003) 5100. Abstract | Cited Ref

129. Meierhenrich U.J., Muñoz Caro G.M., Thiemann W.H.-P., Goesmann F., Rosenbauer H.: Amino acid detection in cometary matter? *Geophysical Research Abstract* **5** (2003) 5304. Abstract | Cited Ref

130. Nuevo M., Dartois E., Deboffle D., d'Hendecourt L., Nahon L., Blanot D., Auger G., Barbier B., Meierhenrich U.: Chiral organic molecules and enantiomeric separation in the ISM and pre-cometary ices. Poster-presentation, Astrophysics of Dust, Estes-Park, Colorado/USA, 26-30 May, 2003.

131. Muñoz Caro G.M., Meierhenrich U.J., Schutte W.A., Barbier B., Arcones Segovia A., Rosenbauer H., Thiemann W.H.-P., Brack A., Greenberg J.M.: Amino acids from ultraviolet irradiation of interstellar ice analogues. *Nature* **416** (2002), 403-406 Abstract |Cited Ref | PDF Full text*
ISI Top Paper on "Comets"

132. Griesbeck A.G. and Meierhenrich U.J.: Minireview: Asymmetric Photochemistry and Photochirogenesis. *Angew. Chem. Int. Ed. Engl.* **41** (2002), 3147-3154; Kurzaufsatz: Asymmetrische Photochemie und Photochirogenese. *Angew. Chem.* **114** (2002), 3279-3286. Abstract | Cited Ref | PDF Full text

133. Meierhenrich U.: The Origin of Biomolecular Asymmetry – Photochemistry and Enantioselective Analysis of Organic Molecules in Interstellar Environments with Special Emphasis on Amino Acids. Habilitationsschrift, University of Bremen (2002). Summary

134. Szopa C., Meierhenrich U., Coscia D., Janin L., Goesmann F., Sternberg R., Brun J.-F., Israel G., Cabane M., Roll R., Raulin F., Thiemann W., Vidal-Madjar C., and Rosenbauer H. : Gas chromatography for in situ analysis of a cometary nucleus

IV. Study of capillary column robustness for space application . *Journal of Chromatography A* **982** (2002), 303-312. Abstract | Cited Ref | PDF Full text*

135. Meierhenrich U.J., Muñoz Caro G.M., Schutte W.A., Barbier B., Arcones Segovia A., Rosenbauer H., Thiemann W.H.-P., Brack A.: The prebiotic synthesis of amino acids – interstellar *vs.* atmospheric mechanisms. In: Sawaya-Lacoste H., (Ed.) *Exo-Astrobiology* , ESA SP-518, ISBN: 92-9092-828-X, Noordwijk, the Netherlands (2002), p. 25-30. Abstract

136. Meierhenrich U. J., Thiemann W. H.-P., Goesmann F., Roll R., Rosenbauer H.: Enantioselective amino acid analysis in cometary matter planned for the COSAC instrument onboard Rosetta lander. In: Sawaya-Lacoste H., (Ed.) *Exo-Astrobiology* , ESA SP-518, ISBN: 92-9092-828-X, Noordwijk, the Netherlands (2002), p. 477-478. Abstract

137. Meierhenrich U.J., Thiemann W.H.-P., Barbier B., Brack A., Alcaraz C., Nahon L., and Wolstencroft R.: Remote sensing of circularly polarized light from orbit of planet Mercury by the ESA Mission BepiColombo. In: Sawaya-Lacoste H., (Ed.) *Exo-Astrobiology* , ESA SP-518, ISBN: 92-9092-828-X, Noordwijk, the Netherlands (2002), p.243-246. Abstract

138. Meierhenrich U.J., Muñoz Caro G.M., Schutte W.A., Barbier B., Arcones Segovia A., Brack A., Rosenbauer H., Thiemann W.H.-P.: Amino Acids from Ultraviolet Irradiation of Interstellar Ice Analogues. *Geochimica et Cosmochimica Acta* **66** (2002), A505 Abstract | Cited Ref | PDF Full text

139. Muñoz Caro G.M., Meierhenrich U.J., Schutte W.A., Barbier B., Arcones Sergovia A., Rosenbauer H., Thiemann W.H.-P., Brack A. and Greenberg J.M.: Formation of chiral organic molecules in simulated dense cloud environments. *Geophysical Research Abstract* **4** (2002), 3538. PDF Full text

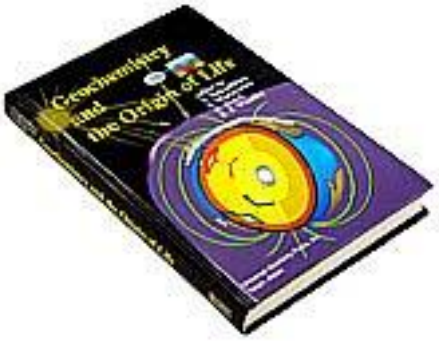
140. Szopa C., Meierhenrich U.J., Coscia D., Sternberg R., Thiemann W., Goesmann F., Roll R., Rosenbauer H., Israel G., Brun J.-F., Cabane M. and Raulin F.: Analysis of cometary matter by the COSAC instrumentation onboard Rosetta lander. Part I: Inorganic and organic molecules. *Geophysical Research Abstract* **4** (2002), 1210. PDF Full text

141. Meierhenrich U.J., Thiemann W.H.-P., Barbier B., Brack A., Nahon L., Alcaraz C. and Wolstencroft R.: Circular Polarization of Light by Planet Mercury and Enantiomorphism of its surface minerals. *Origins of Life and Evolution of the Biosphere* **32** (2002), 181-190. Abstract | Cited Ref | PDF Full text*

142. Meierhenrich U.J., Muñoz Caro G.M., Schutte W.A., Barbier B., Arcones Segovia A., Rosenbauer H., Thiemann W.H.-P., Brack A. and Greenberg J.M.: First identification of amino acids in simulated interstellar medium. *Geophysical Research Abstract* **4** (2002), 2180. PDF Full text

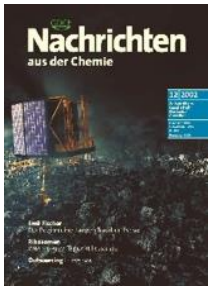
143. Meierhenrich U.J., Szopa C., Goesmann F., Roll R., Rosenbauer H. and Thiemann W.H.-P.: Analysis of Cometary Matter by the COSAC instrumentation onboard Rosetta lander. Part II: Chiral Organic Molecules. *Geophysical Research Abstract* **4** (2002), 1030. PDF Full text

144. Meierhenrich U.J., Thiemann W.H.-P., Barbier B., Brack A., Nahon L., Alcaraz C. and Wolstencroft R.: Circular polarization of light by planet Mercury and enantiomorphism of ist surface minerals. *Geophysical Research Abstract* **4** (2002), 962. PDF Full text



145. Meierhenrich U., Thiemann W., Schubert C., Barbier B. and Brack A.: Isoprenoid enantiomers as molecular biomarkers in ancient sediments. In: Nakashima S., Maruyama S., Brack A., Windley B.F. (Eds.) *Geochemistry and the Origin of Life* . Universal Academy Press, Tokio, Japan (2002), 269-283.
Abstract | Cited Ref

146. Meierhenrich U.: Tagungsbericht der Konferenz der International Scientific Study on the Origin of Life (ISSOL), Oaxaca, Mexiko. *Nachrichten aus der Chemie* **51** (2002), 1393. PDF Full text



147. Meierhenrich U.: Präbiotische Chemie - Kometen und irdisches Leben. *Nachrichten aus der Chemie* **51** (2002), 1338-1341. PDF Abstract

148. Meierhenrich U.J., Thiemann W.H.-P. and Rosenbauer H.: Stereochemical investigations of cometary matter onboard the Rosetta Lander. *Enantiomer* **6** (2001), 97-99. Abstract | Cited Ref

149. Meierhenrich U.J., Thiemann W.H.-P., Goesmann F., Roll R. and Rosenbauer H.: Enantiomer Separation of Hydrocarbons in Preparation of Rosetta's 'Chirality-Experiment'. *Chirality* **13** (2001), 454-457.
Abstract | Cited Ref | PDF Full text*

150. Ma H., Wohlers J., Meierhenrich U., Bernecker A., Suling V. and Thiemann W.: Analysis of oxidative degradation products of 2,4,6-trichlorophenol treated with air ions. *Analytical Chemistry* **73** (2001), 3506-3510.
Abstract | Cited Ref | PDF Full text*

151. Ma H., Wohlers J., Meierhenrich U., Bernecker A., Suling V. and Thiemann W.: Oxidative degradation of 2,4,6-trichlorophenol in the presence of air ions. *Chinese Chemical Letters* **12** (2001), 211-214.

152. Meierhenrich U.J., Thiemann W.H.-P. Muñoz Caro G.M., Schutte W.A. and Greenberg J.M.: Simulated Cometary Matter as a Test for Enantiomer Separating Chromatography for Use on Comet 46P/Wirtanen. *Advances in Space Research* **27** (2001), 329-334. Abstract | Cited Ref | PDF Full text*

153. Thiemann W.H.-P., Rosenbauer H. and Meierhenrich U.J.: Conception of the 'Chirality-Experiment' on ESA's Mission ROSETTA to Comet 46P/Wirtanen. *Advances in Space Research* **27** (2001), 323-328.
Abstract | Cited Ref | PDF Full text*

154. Meierhenrich U., Barbier B., Jacquet R., Chabin A., Alcaraz A., Nahon L. and Brack A.: Photochemical Origin of Biomolecular Asymmetry. *Astrobiology* **1** (2001), 212. PDF Full text*

155. Brack A., Barbier B., Bertrand-Urbaniak M., Boillot F., Chabin A., Jacquet R. and Meierhenrich U.: Life in the Solar System: prebiotic chemistry, chirality, life on Mars. *Astrobiology* **1** (2001), 193. PDF Full text*

156. Thiemann W. and Meierhenrich U.: Analysis of enantioenrichments in cometary matter by Rosetta/ RoLand. *Astrobiology* **1** (2001), 200. PDF Full text*

157. Barbier B. and Meierhenrich U.J.: Origine de l'asymétrie des molécules biologiques. Rapport d'expérience, AM 409-01 projet 0455. Laboratoire pour l'Utilisation du Rayonnement Électromagnétique LURE, Paris-Orsay, France, (2001).

158. Meierhenrich U., Thiemann W.H.-P. and Rosenbauer H.: Pyrolytic Methylation Assisted Enantioseparation of Chiral Hydroxycarboxylic Acids. *Journal of Analytical and Applied Pyrolysis* **60** (2001), 13-26.
Abstract | Cited Ref | PDF Full text*

159. Thiemann W.H.-P. and Meierhenrich U.: ESA Mission ROSETTA Will Probe for Chirality of Cometary Amino Acids. *Origins of Life and Evolution of the Biosphere* **31** (2001), 199-210. Abstract | Cited Ref | PDF Full text

160. Meierhenrich U., Thiemann W., Goesmann F., Roll R. and Rosenbauer H.: Separation of cometary enantiomers by Rosetta/Roland. *Geophysical Research Abstract* **3** (2001), 7597. Abstract | Cited Ref

161. Meierhenrich U., Barbier B., Jacquet R., Chabin A., Alcaraz A., Nahon L. and Brack A.: Photochemical Origin of Biomolecular Asymmetry. In: Ehrenfreund P., Angerer O., Battrick B. (Eds.) Exo-/Astro-Biology, European Space Agency, ESA SP-496, The Netherlands (2001), p. 167-170. Abstract | Cited Ref

162. Thiemann W. and Meierhenrich U.: Analysis of enantioenrichments in cometary matter by Rosetta/ RoLand. In: Ehrenfreund P., Angerer O., Battrick B. (Eds.) Exo-/Astro-Biology, European Space Agency, ESA SP-496, The Netherlands (2001), p. 99-102. Abstract | Cited Ref

163. Brack A., Barbier B., Bertrand-Urbaniak M., Boillot F., Chabin A., Jacquet R. and Meierhenrich U.: Life in the Solar System: prebiotic chemistry, chirality, life on Mars. In: Ehrenfreund P., Angerer O., Battrick B. (Eds.) Exo-/Astro-Biology, European Space Agency, ESA SP-496, The Netherlands (2001), p. 49-54. Abstract

164. Meierhenrich U., Jacquet R., Alcaraz C., Chabin A., Boillot F., Brack A., Nahon. L. and Barbier B.: Origin of Biological Asymmetry. Rapport d'activité à 4 ans du Laboratoire pour l'Utilisation du Rayonnement Électromagnétique LURE, Paris-Orsay, France, (2001). Abstract | Cited Ref | Full text (engl.) | Full text (french)

165. Meierhenrich U.: Rezension des Buches "Rechts oder links. In der Natur und anderswo" Henri Brunner, Wiley-VCH, Weinheim (1999). In: *Spektrum der Wissenschaft* **8** (2000), 107-108. Abstract

166. Thiemann W.H.-P. and Meierhenrich U.: Future Space Experiment Will Concern the Origin of Homochirality. *Origins of Life and Evolution of the Biosphere* **30** (2000), 220. Abstract | Cited Ref | PDF Full text

167. Boillot B., Meierhenrich U., Chabin A., Jacquet R., Alcaraz C., Dutuit O., Brack A., Nahon L. and Barbier B.: Origine de l'asymétrie des molécules biologiques. Poster, Journées Soleil Région Centre, Orléans, France, 18-20 December 2000. Abstract

168. Meierhenrich U.J. and Thiemann W. H.-P.: Enantiomer Separations Planned in Cometary Matter in Situ. Poster (Section 4: Chirality and Life, 113), Astrobiology Science Conference, NASA Ames Research Center, Moffet Field, USA, 3-5 April 2000.

169. Meierhenrich U. and Thiemann W. H.-P.: Determination of an Enantiomeric Bias in Chiral Organics for Application in Space Exploration. Poster (GEOC 0055), 219th American Chemical Society National Meeting, San Francisco, USA, 26-30 March 2000.

170. Thiemann W. H.-P. and Meierhenrich U.: Enantiomer Separation of Branched Aliphatic Alkane Biomarkers. Poster (GEOC 0041), 219th Americal Chemical Society National Meeting, San Francisco, USA, 26-30 March 2000.

171. Meierhenrich U., Thiemann W.H.-P. and Rosenbauer H.: Molecular Parity Violation via Comets? *Chirality* **11** (1999), 575-582. Abstract | Cited Ref | PDF Full text*

172. Meierhenrich U. and Thiemann W.: Neue Ansätze zur Erfassung extraterrestrischer Lebensformen. *Nachrichten der Olbers-Gesellschaft* **185** (1999), 4-7. Abstract | Cited Ref | Full text