

Prof. Dr. Stéphane Vuilleumier

Curriculum vitae

Université de Strasbourg Equipe Adaptations et Interactions Microbiennes dans l'environnement Génétique Moléculaire, Génomique, Microbiologie UMR 7156 UNISTRA – CNRS	4 allée Konrad Roentgen, 67000 Strasbourg, France Phone : +33-(0)3 68 85 20 22 E-mail : vuilleumier@unistra.fr https://gmgm.unistra.fr/index.php?id=3655
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Personal data

Date of birth: 19.09.1962
Nationality: French and Swiss
Marital Status: Married, two daughters
Languages: French, English, German, Swiss German

Higher Education

Degree	Institution	Years	Field of Study
Baccalauréat	Gymnase cantonal, Neuchâtel, Switzerland	1978 – 1981	Baccalauréat es sciences (Maturité fédérale type C)
Dipl. Natw. ETH	ETH Zurich, Zurich, Switzerland	1981 – 1985	Biology and Chemistry; Diploma thesis with Prof. Dr. Arigoni, "Untersuchungen zum Reaktionsmechanismus von Isocitrat Lyase"
Dr. Phil. II	University of Basel, Basel, Switzerland	1986 – 1990	Peptide chemistry; PhD thesis with Prof. Dr. M. Mutter, "Stabilisation of helix conformation in model synthetic peptides: studies on peptide conformation and antigenicity"

Employment and Professional experience

Year(s)	
1990 – 1993	Postdoctoral fellow with Prof. A. R. Fersht, University of Cambridge, UK
1993 – 1996	Postdoctoral fellow with Prof. T. Leisinger, ETH Zurich, Switzerland
1996 – 2002	Assistant Professor, ETH Zurich
2001	Habilitation (Venia legendi), ETH Zurich, Habilitationsschrift (habilitation thesis): "Dichloromethane dehalogenases and beyond: bacterial glutathione S-transferases and associated metabolism"
Since 2002	Full Professor of Environmental Biology and Microbiology (1 ^{ère} classe; 2012: classe exceptionnelle, section CNU 65), Université Louis-Pasteur, since 2009 Université de Strasbourg, France; leader of the CNRS team "Adaptations et Interactions Microbiennes dans l'Environnement" (sections CNRS 21 and 30)

Honors, Awards and Scholarships

Year(s)	
1986 – 1990	Fellowship Fonds der Chemischen Industrie
1991 – 1993	Fellowship Schweizerischer Nationalfonds

1999	French habilitation (HDR, Section 32)
2002	1 st place, CNRS CR1 recruitment Section 20
2002	CNRS ATIP award
2014 – 2016	Vice Chair (2014), Chair (2016), Gordon Research Conference “Molecular Basis of Microbial One-Carbon Metabolism”

Selected Other Scientific Activities

Year(s)	
2002 – 2014	Member of the Realise Network (Réseau Alsacien des Laboratoires en Ingénierie et Sciences de l'Environnement)
2005 – 2009	Université Louis Pasteur partner of the European TEMPUS SWERC project with the University of Tyumen (Russia) led by University of Freiburg
2010 – 2014	UNISTRA partner of the European TEMPUS Qualfeem project with the University of Tyumen and other Universities in Siberia (Russia) led by University of Freiburg
2010 - 2014	Associated partner of the Marie Curie ITN CSI:Environment “Stable Isotope Forensics Meets Biogeochemistry” (joint supervision of one PhD student)
2010 – 2015	Participant for Strasbourg of the Interreg project OUI-Biomasse associating the Universities of Freiburg, Strasbourg, Basel, Koblenz-Landau, Haute Alsace and KIT Karlsruhe, as well as other associated partners and institutions.
Since 2013	Member of the scientific committee, EcotoxicoMic network, RTP CNRS
Since 2013	Participation in the interdisciplinary CNRS network "Fabrication et Domestication du Vivant"
2014-2017	Partner in the ANR-DFG project CHLOROFILTER, on the isotopic chemistry and microbial genomics of CH ₃ Cl production and consumption
2015	Organisation of the trinational symposium "Environmental Microbiology and Biomass/Microbiologie de l'Environnement et Biomasse/Umweltmikrobiologie und Biomasse" (65 participants from Strasbourg, Mulhouse, Nancy, Freiburg, Karlsruhe, Basel, Zurich, and Luxembourg) as part of the Interreg project "OUI-Biomasse", 10.04 2015
Since 2015	Participation in the interdisciplinary space mission project MMARS1 with International Space University (growth of <i>Methanosarcina barkeri</i> methanogen on the International Space Station, 19.02-20.03 2017)
Since 2016	Scientific coordinator for University of Strasbourg and CNRS and Chair of the axis “transformation processes and technologies” of the Interreg project "Upper Rhine Cluster for Sustainability Research" (2016-2018) associating the Universities of Freiburg, Strasbourg, Basel, Koblenz-Landau, Haute Alsace and KIT Karlsruhe and other partners and institutions
2017	Organisation of the European Minisymposium "Microbial C1 Metabolism" (20 participants), Service Scientifique, Ambassade de France, London, 21/22.03 2017
2017-2020	Coordinator of the ANR project DEHALOFLUIDX on the function-driven discovery of new microbial dehalogenases

Selected Other Academic Activities

Year(s)	
Since 1996	Member of VAAM and of ASM
2003 – 2008	In charge of the interdisciplinary Master in Environmental Sciences and the Speciality "Physique, Chimie, Biologie de l'Environnement" Université Louis Pasteur

2008 - 2016	Member of the consultative "Comité des Sages" for the allocation of PhD fellowships of Région Alsace (President, 2016)
Since 2012	In charge of the Master Speciality "Chemistry and Biology" and today "Chemistry Biology and Drug Design" of the Faculty of Chemistry of University of Strasbourg, for the Faculty of Life Sciences
Since 2013	Editorial Board "Applied and Environmental Microbiology"
2013	External member, recruitment committee, W1 junior professorship in Microbiology, University of Freiburg, Germany
2014 - 2017	Member of the scientific advisory board, French National Pôle de compétitivité Hydreos
2018	Organisation of the International Sustainability Conference, 28-29 September, Strasbourg

Student Training and Scientific Record

Stéphane Vuilleumier has directed or co-directed 10 PhD theses (3 at ETH Zurich, 7 in Strasbourg), and currently supervises 2 PhD theses at University of Strasbourg. He also mentored 8 postdoctoral collaborators, and supervised around 30 MSc thesis and Diploma theses.

He has been on the PhD committee of 26 successfully defended PhDs in France and abroad (e.g. Radboud University, Nijmegen, The Netherlands; University of Oulu, Finland; University of East Anglia, U.K.; Universidad Autonoma de Barcelona). He is member of the thesis committee of 5 ongoing PhD projects.

He is the author or co-author of 125 peer-reviewed articles (105 journal articles, 8 proceeding reports, and 12 book chapters; h-index 32, 31 citations per publication on average (WoS Core Collection)).

Selection of 5 high impact factor publications

DiSpirito AA, Semrau JD, Murrell JC, Gallagher WH, Dennison C, **Vuilleumier S** (2016). Methanobactin and the link between copper and bacterial methane oxidation. *Microbiol Molec Biol Rev* **80**, 387-409. [5-year IF 17.537, 27 citations]

Kalyuzhnaya MG, Yang S, Rozova ON, Smalley NE, Clubb J, Lamb A, Nagana Gowda GA, Raftery D, Fu Y, Bringel F, **Vuilleumier S**, Trotsenko YA, Beck D, Khmelenina VN, Lidstrom ME (2013) Highly efficient methane biocatalysis revealed in a methanotrophic bacterium. *Nature Commun* **4**, 2785. [5-year IF 13.691, 112 citations]

Vannelli T, Messmer M, Studer A, **Vuilleumier S**, Leisinger T (1999) A corrinoid-dependent catabolic pathway for growth of a *Methylobacterium* strain with chloromethane. *Proc Natl Acad Sci USA* **96**, 4615-4620. [5-year IF 10.354, 60 citations]

Arcus VL, **Vuilleumier S**, Freund SV, Bycroft M, Fersht AR (1994) Towards solving the folding pathway of barnase: The complete backbone ¹³C, ¹⁵N and ¹H NMR assignments of its pH denatured state. *Proc Natl Acad Sci USA* **91**, 9412-9416. [5-year IF 10.354, 78 citations]

Mutter M, **Vuilleumier S** (1989) Ein chemischer Weg zu neuen Proteinen - Templat-assoziierte synthetische Proteine (TASP). *Angew Chem* **101**, 551-571. [A chemical approach to protein design - Template-assembled synthetic proteins (TASP). *Angew Chem Int Ed Engl* **28**, 535-554]. [5-year IF 11.954, 383 citations]