

**Curriculum Vitae**  
**Univ.- Prof. Dr. rer. nat. Dipl.-Biol. Christa Schleper**

Faculty of Life Sciences, University of Vienna  
Vice-Head Department of Ecogenomics and Systems Biology  
Head Archaea Biology and Ecogenomics Division  
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**Personal data**

Born 1962 in Oberhausen, Germany, German Citizenship  
Two children (\*2001 and \*2003)

**Education**

1982 Graduation Highschool (Oberhausen, Germany)  
1982 - 1985 Studies in biology, sociology and languages (University of Aachen, Germany)  
1985 - 1989 Studies in biology, diploma (University of Konstanz, Germany)  
1989 - 1993 Doctorate (PhD) (Max-Planck Institute for Biochemistry, Martinsried, Germany)  
2002 Habilitation, *venia legendi* in Microbiology and Genetics, (Univ. of Darmstadt, Germany)

**Career**

1994 - 1995 Postdoctoral fellow, Max-Planck-Inst. for Biochemistry, Munich, Germany (with Wolfram Zillig) studying novel strains and genetic elements of hyperthermophilic Archaea  
1995 Postdoctoral fellow at CALTECH, Californian Institute of Technology, Pasadena (with Mel Simon) studying signal transduction in Archaea  
1996 - 1997 Postdoctoral fellow, Univ. of Sta. Barbara, California, USA (with Edward Delong) studying ecology and evolution of marine Archaea with metagenomics  
1998 - 2004 Assistant Professor, group leader, University of Darmstadt, Germany with focus on transcriptomics and metagenomics of soil  
2004 - 2007 University Professor, Department of Biology, University of Bergen, Norway  
2007 Offers to ETH Zurich (Chair Molecular Microbiology at EAWAG) and TU Munich (Chair Microbiology) declined  
2007 - 2014 Adjunct Professor at Center of Excellence for Geobiology, University of Bergen  
2007 - now University Professor, Vice-Head Department of Ecogenomics and Systems Biology, Head Archaea Biology and Ecogenomics Division

**Personal Awards**

2013 - now Corresponding member of the Austrian Academy of Sciences  
2011 Elected member of the American Academy of Microbiology  
2001 EMBO Young Investigator Award (EMBO - YIP)  
1995 - 1997 Post-Doctoral Fellowship of the Deutsche Forschungsgemeinschaft

**Professional activities** (selected)

2016 Evaluation panel of HeiKa (Heidelberg-Karlsruhe Research Partnership)  
2015 - now Member of the Stiftungsverwaltungskommission of the Austrian Academy of Sciences (ÖAW)  
2015 Member of local organising committee: Conference of the Society for Molecular Biology and Evolution (SMBE 2015) Vienna, Austria  
2013 - now Member of the Commission for Interdisciplinary Ecological Studies (KIÖS) of the Austrian Academy of Sciences (ÖAW)  
2013 Evaluation panel for Leibniz Institute DSMZ (German collection of microorganisms and cell cultures)  
2011 - 2012 Senior Editor of ISME Journal  
2008 - now Member of editorial board Environmental Microbiology

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- 2011 Co-Editor of Special issue on 'Archaea' in Current Opinion in Microbiology  
Co-Editor of two special issues on 'Metagenomics' in Environmental Microbiology
- 2009 - 2013 Main coordinator of InflammoBiota (Metagenomics and Metatranscriptomics for the investigation of the gut microbiota associated with inflammatory bowel disease).  
National consortium funded by the Austrian Genome Programme GEN-AU
- 2007 - 2010 Main coordinator of the international EU/ERA-NET project: SULFO-SYS (Silicon cell model for the central carbohydrate metabolism of the hyperthermophilic archaeon *Sulfolobus solfataricus* under temperature variation) within the European SYSMO initiative (Systems Biology of Microorganisms)
- 2007 Co-organizer of Congress: Thermophiles 2007, Bergen, Norway
- 2005 Co-initiator and -organizer of international meeting: Archaea, the first generation, Munich, Germany
- 2003 Main initiator and organizer: Metagenomics 2003 -From Microbial Diversity to Function, First international meeting on Metagenomics, Darmstadt, Germany
- 2000 - 2001 Co-organizer of an international seminar series: "Women in Biosciences, Univ. of Technology Darmstadt, Germany
- 2001 Co-organizer of the symposium: „Arbeitsfeld Biowissenschaften: Lebenswege von Naturwissenschaftlerinnen“ University of Technology Darmstadt, Germany
- 1999 - 2003 Cooperation with Biotech Company BRAIN AG, Zwingenberg on development of metagenomic tools

#### Research Interests

- i) Ecology, genetics and evolution of Archaea with a focus on ammonia oxidizing archaea (their metabolism and ecology) and hyperthermophilic Sulfolobales (DNA transfer, virus-host interactions, virus defense)
- ii) Development and application of metagenomic and metatranscriptomic approaches to study natural microbial communities with a focus on terrestrial and arctic environments, and microbe-host systems

#### Most Important Collaborations:

International:

- Graeme Nicol, Jim Prosser, University of Aberdeen, UK
- Michael Schloter, Helmholtz Zentrum Munich, Germany
- Mette Svenning, University of Tromso, Norway
- Christina Biasi, Pertti Martikainen, University of Kuopio, Finland
- Celine Brocher-Armanet, University of Lyon, France
- Ramunas Stepanauskas, Bigelow Laboratory, East Boothbay, US
- Thijs Ettema, University of Uppsala, Sweden

National:

- Sophie Zechmeister-Boltenstern, BOKU University, Vienna
- Colleagues of the Faculty Center of Ecology, Faculty of Life Sciences, University of Vienna

#### Field Work – Sampling Expeditions to Terrestrial Hot Springs (selected)

- 1993 Hokkaido, Japan
- 1994 Acores, Portugal
- 1995 Sampling campaign and workshop on Thermophiles, Kamchatka, Russia
- 2005, 2010 Iceland
- 2013 Southern Italy (Ischia) and Southern Japan (Kiushu)

#### Mentoring

- 2011 mentor programme for female Postdocs, University of Vienna (muv5)  
Cyber-Mint (for highschool girls interested in natural sciences)
- 2001-2004 mentor programme for female students, Frankfurt-Darmstadt

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**Memberships** (selected)

Commission for Interdisciplinary Ecological Studies (KIÖS) of the Austrian Academy of Sciences (ÖAW)  
American Society for Microbiology (ASM)  
Deutsche Vereinigung für Allgemeine und Angewandte Mikrobiologie (VAAM)  
International Society for Microbial Ecology (ISME)  
Austrian Association of Molecular Life Sciences and Biotechnology (ÖGMBT)

**Publications in peer-reviewed journals: (ISI-Web of Knowledge, 01/2016)**

ISI-listed publications: 148  
total citations: 8.766  
average citation per item: 59,23  
h-index: 46

**Co-Inventor on International Patents**

2003 "Nucleic Acids and Proteins from the uncultivated Archaeon *Cenarchaeum symbiosum*"  
(WO200018909-A)  
2004 "Expression vectors for hyperthermophilic Archaea" (WO2004106527-A1)  
"Isolation and cloning of DNA from uncultivated microorganisms" (WO2004018673-A2)  
2014 "Archaeon expression system" (US 08679829)

**Invited International Conference talks since 2008** (selected)

Invited Speaker: 07/2015. 4<sup>th</sup> International Conference on Nitrification (ICoN4). Alberta, Canada.  
Invited Speaker: 12/2014. Astrobiology and Space Medicine workshop. Graz, Austria  
Invited Speaker: 05/2014. 3<sup>rd</sup> CRISPR Conference. St. Andrews, UK  
Invited Speaker: 05/2014. Molecular Biology of Archaea 4 (MBoA). Paris, France  
Invited Keynote Lecture: 05/2014. 114<sup>th</sup> General Meeting American Society of Microbiology. Boston, USA  
Invited Keynote Lecture: 09/2013. 3<sup>rd</sup> International Conference on Nitrification (ICoN3). Tokyo, Japan  
Invited Plenary Lecture: 03/2013. VAAM and Joint conference of the German and Dutch Societies for Microbiology. Bremen, Germany  
Invited Plenary Lecture: 07/2012. Molecular Biology of Archaea 3. Marburg, Germany  
Invited Keynote Lecture: 04/2011. Ecology of Soil microorganisms. Prague, Czech Republic  
Invited Keynote Lecture: 08/2011. Gordon Research Conference: Archaea: Ecology, Metabolism and Molecular Biology. New Hampshire, USA.  
Invited Plenary Lecture: 10/2011. Jacques Monod Conference: Integrative ecological genomics. Paris, France  
Invited Workshop Lecture: 06/2010. International Symposium on High-throughput sequencing - applications and analyses. University of Oslo, Norway  
Invited Lecture: 09/2010. Meeting of the Austrian Society for Molecular Biology and Biotechnology (ÖGMBT). Salzburg, Austria  
Invited Plenary Lecture: 08/2010. CRISPR Mechanisms & Applications. Wageningen, Netherlands  
Invited Plenary Lecture: 08/2010. Molecular biology of Archaea II Conference, Cambridge, UK.  
Invited Keynote Lecture: 08/2010. 13<sup>th</sup> International Symposium on Microbial Ecology, Seattle, USA  
Invited Plenary Lecture: 07/2009. Gordon Research Conference: Archaea: Ecology, Metabolism and Molecular Biology, Waterville Valley, New Hampshire, USA  
Invited Plenary Lecture: 07/2009. 1<sup>st</sup> International Conference on Nitrification (ICoN1). Louisville, USA  
Invited Session Convenor and Speaker: 06-07/2009. 3<sup>rd</sup> Congress of European Microbiologists (FEMS). Göteborg, Sweden  
Invited Keynote Lecture: 06/2009. International Conference BAGECO 10, Bacterial Genetics and Ecology – Coexisting on a Changing Planet, Uppsala, Sweden  
Invited Workshop Lecture: 05/2009. Evolution of Archaea, Les Treilles, France  
Invited Plenary Speaker: 08/2008. Molecular Biology of Archaea. St. Andrews, UK  
Invited Plenary Speaker: 06/2008. EMBO Workshop: Microbial diversity and Metagenomics. Chalkid, Greece  
Invited Plenary Speaker: 05/2008. Workshop of the Dutch Academy of Sciences: Assessing marine microbial diversity: Problems and solutions.