

Curriculum Vitae: **Laurent Keller** October 2018

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Date of Birth - 28 February, 1961, Swiss citizen

### Education

1989 PhD University of Lausanne, Major Zoology (with felicitations)  
 1985 MSc University of Lausanne, Major Biology  
 1983 BSc University of Lausanne, Major Biology

### Positions Held

2009 Sabbatical, Rockefeller University  
 2000- Full Professor of Evolutionary Ecology and Head of the new Department of Ecology and Evolution, University of Lausanne  
 1998-2000 Head of the Institute of Ecology, University of Lausanne  
 1996-2000 Associate Professor of Ecology, University of Lausanne, Switzerland (50%) and Holder of a START (Swiss Talents for Academic Research and Teaching) Fellowship (Swiss NSF), University of Bern and Lausanne (50%)  
 1992-1996 Holder of a START (Swiss Talents for Academic Research and Teaching) fellowship (Swiss NSF), 84 months), University of Bern and Lausanne. From 1994-1996 Privat Docent at the University of Lausanne  
 1990-1992 Postdoctoral Research Fellow, Museum of Comparative Zoology, Harvard University  
 1989-1990 Postdoctoral Research Associate, Museum of Zoology Lausanne and Department of Zoology and Animal Ecology, University of Lausanne  
 1987-1989 Graduate Student, Museum of Zoology Lausanne and Department of Zoology and Animal Ecology University of Lausanne  
 1985-1987 Research Associate, Laboratory of Entomology, University Paul-Sabatier, Toulouse, France  
 1983-1985 Research Assistant, Museum of Zoology Lausanne and Department of Zoology and Animal Ecology University of Lausanne

### Professional Honours and Prizes

2017 ERC Advanced Grant  
 2015 Marcel Benoist Prize  
 2014 International Francqui Professor Chair, Université Libre de Bruxelles  
 2010 ERC Advanced Grant  
 2010 2010 Tinbergen Lecture, nominated by ASAB council  
 2010 EMBO member  
 2009 Basic Life Science Senior Research Award, Faculty of Biology and Medicine, Lausanne  
 2006 Verwey Lecture  
 2005 Ernest Dubois Prize  
 2005 E. O. Wilson Naturalist Award  
 2000 Leenards Research Award  
 2000 Latsis Prize 2000, awarded by the Swiss NSF  
 2000 Charles D. Michener Lecture, University of Kansas

- 1999 AETAS (Foundation for research on ageing) Research Award  
 1998 Mouline Prize for an article published in *Evolution* (first author: Michel Chapuisat)  
 1993 Award for best talk during the Annual Conference of the Swiss Zoological Society, Satellite symposium  
 1992 START (Swiss Talents for Academic Research and Teaching) award by the Swiss NSF  
 1990 Brunner Prize for the best PhD in the Faculty of Sciences, University of Lausanne  
 1989 Outstanding PhD student award, University of Lausanne

### Main Society Positions

- 2015-2017 President of the European Society for Evolutionary Biology (President-Elect 2013-2015)  
 1999-2003 Member of the Steering Committee of the "National Forum on Biodiversity" (Swiss Commission for Biology, Swiss Academy for Science)  
 1998-2004 Member of the Swiss Commission for Biology (Swiss Commission for Biology, Swiss Academy for Science)  
 1997-1999 Vice-President of the Swiss Zoological Society  
 1994-1997 President of the Swiss Zoological Society  
 1989-1995 Council member of the French Section of the International Union for the Study of Social Insects  
 1989-1990 Secretary, French Section of the International Union for the Study of Social Insects

### Editorial Positions

- 2016- Board of Reviewing Editors of *eLife*  
 2015- Editorial Board of *Matters*  
 2012- Editorial Board of *PeerJ*  
 2011- Editorial Board of *Biology Letters*  
 2007- Editorial Board of *Communicative & Integrative Biology*  
 2006- Editorial Board of *Current Biology*  
 2005- Editorial Board of *BMC Evolutionary Biology*  
 2004- Faculty of 1000, Member; Section Head since 2014  
 2003-2005 Associate Editor for *Evolution*  
 2003- Editorial Board of *PloS Biology*  
 2002-2009 Editorial Board of *Behavioral Ecology*  
 2000- Associate Editor for *Behavioral Ecology and Sociobiology*  
 1999-2003 Editorial Board of *Selection*  
 1998-2004 Editor for *Ecology Letters*  
 1997-1999 Consulting Editor for *Animal Behaviour*  
 1995-1998 Reviewing Editors of *Journal of Evolutionary Biology*  
 1994-1997 Editorial board of *Revue Suisse de Zoologie*

### Main Committees and Boards

- 2016-2017 Member of a search committee for a Professor, University of Lausanne  
 2015 Chair of a search committee for two Professors, University of Lausanne  
 2015 Member ERC panel, consolidator grants  
 2014 Member of a search committee for two Professors, University of Lausanne  
 2014 Member of a search committee for the Life Science Dean, EPFL  
 2014 Vice-Chair of the Temporary Backup Scheme (substitute of ERC) Life Science (LS) Panel, Swiss NSF  
 2013 Member of a search committee for a Professor, University of Lausanne  
 2012-2013 Member of a search committee for a Professor, University of Lausanne  
 2012- Member of the Scientific Panel of the University of Zürich Research Priority Program "Evolution in Action: From Genomes to Ecosystems"  
 2010-2011 Member of a search committee for a Professor, University of Lausanne

- 2010- Member of the Swiss NSF Scientific Council
- 2010 Member of a committee to discuss the organization of the new CSF/Medunil organization
- 2010 Member of a "Structure commission" for a Professor, University of Lausanne-CHUV
- 2009- Member of a Swiss NSF panel attributing NSF Professor positions
- 2008 Member of a tenure committee, University of Lausanne
- 2008 Member of an AERES committee to assess the CNRS laboratory Evolution, Genome and Speciation, Paris Orsay
- 2007-2009 Member of the Scientific Executive Board of SystemsX.ch
- 2007-2008 Member of a "Structure commission" and a "Nomination commission" for a Professor, University of Geneva
- 2007- Member of the committee for the BIG (Biodiversity and Integrative Genomics) seminar, University of Lausanne
- 2007 Member of the committee to discuss how to integrate Biology in the Biology and Medicine Faculty
- 2006 Member of a search committee for a Professor, Centre of Integrative Genomics, University of Lausanne
- 2006 Member of a search committee for a Professor, Department of Ecology and Evolution, University of Lausanne
- 2005 President of a Promotion committee, University of Lausanne
- 2005 Member of a search committee for a Professor, University of Basel
- 2004-2005 Member of a search committee for a Professor, University of Fribourg
- 2003-2010 Member of the research council, Faculty of Biology and Medicine, University of Lausanne
- 2003-2004 Member of a search committee for five positions in the new Centre of Genomics, University of Lausanne
- 2003 Member of the steering committee for the new Faculty of Biology and Medicine, University of Lausanne
- 2003 Member of the search committee for the Dean of the Faculty of Biology and Medicine, University of Lausanne
- 2002 Member of a search committee for a Professor, University of Lausanne
- 2001-2004 Member of the steering committee of the new Centre of Genomics, University of Lausanne
- 2001 Member of a search committee for a "Maitre d'Enseignement et de Recherche", University of Lausanne
- 2001 Member of a search committee for a Professor, University of Zurich
- 2001 Member of a search committee for a Professor, University of Basel
- 2000 Member of two search committees for new Professors, University of Lausanne
- 2000 Member of the committee establishing the research program of the Centre of Genomics, University of Lausanne
- 1999 Member of the "Teaching Committee", University of Lausanne
- 1999 Member of an "Evaluation Committee of Scientific Research", CNRS
- 1999 Evaluation of a project of formation of a new Department of Research, INRA
- 1998 Head of the committee "Criteria of the allocation of assistants", Faculty of Biology, University of Lausanne
- 1998 Member of the committee "Future of biology at the University of Lausanne"
- 1998 President of the committee for installing a new procedure to share resources in the Faculty of Biology, University of Lausanne
- 1996 Head of the advising committee for the re-organisation of the library in organismic biology

### **Competitive Grants**

#### *Grants from the Swiss National Science Foundation:*

- 2018 *Genetic Basis of Alternative Social Organizations in Fire Ants* 310030B\_176406, 36 months, 1'038'869 frs
- 2015 *Short Visit Grant* to invite Dr Grozinger, IZK=Z3\_160506, 9'090 Frs
- 2014 *Genetic Basis of Alternative Social Organizations in Fire Ants* 310030\_156732, 36 months, 1'033'000 frs

- 2013 *The Napoleome*, CRAG13\_145652/1, PI: A. Reymond, 200'000 Frs
- 2012 *The Joint Evolution of Dispersal and Altruism*, CR32I3\_141063, 36 months, 650'000 Frs
- 2010 *Population Genomic Survey of Genes influencing Fitness in a Hybrid Zone of Fire Ants* ProDoc research module PDFMP3\_130313, 36 months, 202'336 Frs
- 2010 *Determinants of Social Organisation in Ant Colonies*, 310030B\_133121/1, 36 months, 930'000 Frs
- 2010 *Biology Needs Ultra High Throughput DNA Sequencing*, 316030\_133797, PI: S. Cole, 341'000 Frs
- 2009 *Population Genomics* ProDoc training module PDAMP3\_126393, 36 months, PI: I. Sanders, 482'396 Frs
- 2007 *Determinants of Social Organisation in Ant Colonies*, 3100AO-118194, 36 months, 834'000 Frs
- 2007 *Evolution of Communication in Robot Colonies*, 3152A0-100476, 36 months, 549'000 Frs
- 2003 *Evolution of Cooperation and Division of Labour in Artificial Ants*, 3152A0-100476, 50 months 410'153 Frs
- 2002 *Caste Differentiation, Aging and the Dynamics of Conflict and Cooperation in Ant Colonies*, 31-67025, 60 months, 1'370'000 Frs
- 2000 *Sex Ratio Evolution in Ants: Testing Queen Replenishment and Local Resource competition*, 3100-063026, 18 months, 222'000 Frs
- 1998 *Testing Reproductive Skew Models Using Allodapine Bees*, 31-54001.98, 36 months, co-PIs M. Schwarz and K. Hogendoorn, 330'521 Frs
- 1996 *Determinants of Community Structure in Plants and Animals*, grant to cover the cost of a scientific meeting, 3101-046404.96, PI D. Meyer 4'100 Frs
- 1996 *Effect of a Founder Event on Genetic Diversity in the Fire Ant *Solenopsis invicta**, 3100-049679.96, 60 months, co-PI K.G. Ross, 245'260 Frs
- 1995 *Sex Ratio Variation in Ants: The Impact of Kinship and Ecological Factors*, 3100-043330.95, 60 months, 651'907 Frs
- 1994 *Evolution in Structured Populations*, Grant to cover the cost of a Workshop, 3101-041191.94, 3'000 Frs
- 1994 *The Evolution of Sex Ratios in Ants with Variable Genetic Structure*, 3100-040828.94, 12 months, PI, 65'656 Frs
- 1993 *The Evolution of Social Organization: A Case Study Using the Fire Ant, *Solenopsis invicta**, 3100-036907.93, 46 months, 305'823 Frs
- 1992 *The Evolution of Social Organization: A Case Study Using the Fire Ant, *Solenopsis invicta**, START grant (Swiss Talents for Academic Research and Teaching), 31-35584.92, 84 months, 666'965 Frs
- 1990 *Factors Regulating Queen Number in the Fire Ant, *Solenopsis invicta**, PI, 823A-26161, 24 months, 101'680 Frs

#### Other competitive grants

- 2017 European Research Council Advanced Grant, *resilaANT* 741491, 2'499'969 €
- 2017 EU Marie-Curie grant Grant Agreement H2020-MSCA-IF-2016-701949 *EvolAge*, 187'419 €
- 2017 EU Marie-Curie grant Grant Agreement H2020-MSCA-IF-2016-750766 *MELCA*, 175'419 €
- 2015 *Experimental evolution of lifespan: the genetic link between nutrition, reproduction, fat metabolism and aging*. Novartis Foundation, 60'000 Frs
- 2015 *Making war or babies: division of labour and social evolution in parasites*. Marsden fund, Co-PI with Robert Poulin, 790'000 NZ\$
- 2012 EU Marie-Curie grant Grant Agreement PIEF-GA-2011-303114 *BEESPATNET*, 189'709 €
- 2011 Univ. Lausanne Research Foundation 450e, Fonds Rub et KGF, "*Meeting Genetics of Behavior*", Co-PI with Mehdi Tafti and Sandi Carmen, total 21'000 Frs
- 2010 European Research Council Advanced Grant, *Social Life* 249375, 2'497'500 €
- 2009 Infectigen Foundation, *Ultra-high throughput sequencing for discovery and characterization of viral genomes in fire ants*, 100'000 Frs
- 2009 Faculty of Biology and Medicine special inter-disciplinary research project *Genome-wide study of transmission distortion*, Co-PI Alexandre Reymond, 200'000 Frs
- 2007 EU Network of excellence "*Integrating Research into Development and Aging*", together with 19 other European laboratories, coordinator, Rudy Westendorp, 10'000'000 € (contribution to our laboratory, 360'000 € plus competitive funds available to all members), five years
- 2007 EU Cordis grant "*Integrating Cooperation Research across Europe*" FP6-2005-Nest-Path for "*What it Means to be Human*" 1'200'000€ (to be shared between 26 laboratories)

- 2007 Indo Swiss Bilateral Research Initiative, 2'500 Frs
- 2007 Roche Research Foundation, *Evolution of caste specific gene expression in the fire ants Solenopsis invicta, S. richteri and in their hybrids*, 63'000 Frs
- 2006 Univ. of Lausanne special grant for genomics (Genomics and Interactions), 200'000 Frs
- 2006 Loterie Romande, Grant to support a project to provide ant colonies to classes of the Canton de Vaud, 10'000 Frs
- 2006 Herbette Foundation Grant to buy a BAC library, 26'000 Frs
- 2005 Faculty of Biology and Medicine special inter-disciplinary research project *Kin recognition and differential gene expression in Arabidopsis thaliana*, Co-PI Philippe Reymond, 200'000 Frs
- 2004 Univ. of Lausanne special grant for developing an ant microarray, 60'000 Frs
- 2004 Chuard-Schmid Foundation ,subside for developing an ant microarray, 20'000 Frs
- 2004 Rub Foundation, subside for developing an ant microarray, 10'000 Frs
- 2004 Agassiz Foundation, subside for developing an ant microarray, 15'000 Frs
- 2004 Herbette Foundation Grant to contribute to research on fire ant genomics, 25'000 Frs
- 2004 NIH (NHGRI) grant to establish a BAC library for the fire ant *Solenopsis invicta* (with 8 co-PIs)
- 2003 Herbette Foundation Grant to contribute to the development of a fire ant microarray, 30'000 Frs
- 2002 Ministère de l'Aménagement du Territoire et de l'Environnement Français, Projets Ecosystèmes Tropicaux *Genetics of Colonies and Populations of Wasmania auropuncta*, Co-PIs A. Estoup and A. Dejean, 670'000 FF
- 2002 Univ. of Lausanne special grant for genomics (Genomics ; intraspecific interactions), 300'000 Frs
- 2001 Herbette Foundation Grant, 13'600 Frs
- 2001 Univ. of Lausanne-Swiss Federal Institute of Technology (Lausanne) Collaborative Research Projects, *Evolution of cooperation and Labour Division in Artificial Ants*, Co-PIs D. Floreano and R. Siegwart, 80'000 Frs
- 2000 EU Research Training Network (Coordinator J.J. Boomsma) *Integrated Studies of the Economics of Insect Societies*, 2'453'000 Frs (contribution to our laboratory, ca. 360'000 Frs)
- 2000 Univ. of Lausanne Research Foundation, 450e to cover the cost of a meeting entitled *Social Systems and Genetic Structures*, 2'000 Frs (1'400\$)
- 2000 Leenards Research Award, *Testing Theories of Aging in a System with Tremendous Variation in Lifespan*, 350'000 Frs (220'000\$)
- 2000 Société Académique Vaudoise, Research Grant, 12'000 Frs
- 2000 Herbette Foundation Grant to support Prof. L. Passera's sabbatical visit, 12'000 Frs
- 2000 Roche Research Foundation, *Study of the Genetic and Behavioural Relationship of European Populations the Ant Linepithema humile*, 6'000 Frs (4'000\$)
- 1999 Research grant from the Balbona Bioenvironmental Center, 5'000 Frs
- 1999 Australian National Science Foundation *Testing Reproductive Skew Models Using Allodapine Bee*, 19942063, 36 months, co-PIs M. Schwarz and K. Hogendoorn, 240'363 Frs
- 1999 Research grant from the AETAS foundation, *Testing Genes Implicated in Aging in a System with a Naturally Selected Variation of Lifespan*, 80'000 Frs
- 1998 Travel grant by the Swiss Academy of Natural Sciences, *Genetic Diversity in the Fire Ant Solenopsis invicta*, 5'700 Frs
- 1997 MAE Research grants from France for collaborations between France and Switzerland, *Study of Reproductive Strategies in Ants*, 45'000 FF (10'000\$)
- 1997 US National Science Foundation DEB 9707331 *Effect of a Founder Event on Genetic Diversity in the Fire ant Solenopsis invicta*, co-PI K.G. Ross, 135'000 Frs
- 1997 University of Lausanne publication grants, 4'800 Frs
- 1996 Univ. of Lausanne-Swiss Federal Institute of Technology (Lausanne) Collaborative Research Projects, *Khepera Ants. Collective Intelligence and Dynamics of Division of Labour*, 112'510 Frs
- 1994 Grant from the "Société Vaudoise des Sciences Naturelles", (Fonds Agassiz), *Sex Ratio in the Ant Formica exsecta*, 2'810 Frs
- 1994 Univ. of Lausanne "Research Foundation, 450e", *Conflict and Cooperation in Colonies of the Argentine Ant*, 3'000 Frs
- 1993 Travel grant by the Swiss Academy of Natural Sciences, *Genetics of Fire Ants in South America*, 6'900 Frs

- 1993 Travel grant from the Association for the Study of Animal Behaviour, Annual Winter Meeting, London, 600 Frs
- 1993 Special grant from the Faculty of Sciences, University of Lausanne, 50'000 Frs
- 1990 Janggen-Pöhn-Foundation, *Alternative Reproductive Structure in the Fire Ant*, 5'000 Frs
- 1990 Grant from the French Minister of Research and Technology (in collaboration with other European Laboratories (Toulouse, Marseilles, Paris, Bruxelles), 20'000 FF
- 1989 Univ. of Lausanne Research Foundation, *Mating System of the Argentine Ant*, 3'750 Frs
- 1989 French Minister of Technology, *The Biology of Pest Ants*, Co-PI Luc Passera, 3'000 Frs
- 1988 Subside from the "Société Académique Vaudoise" 18th Congrès International of Entomology, Vancouver, 950 Frs
- 1988 Private Funding to cover PhD research costs, 3'000 Frs
- 1988 French Section of the International Union for the Study of Social Insects, travel grant, 800 Frs
- 1987 "Vaudoise" Entomological Society, *Energetics of Reproduction in Ants*, 500 Frs
- 1986 French Section of the International Union for the Study of Social Insects, travel grant, *Regulation of Queen Number in Argentine Ant*, 500 Frs
- 1985 Univ. of Lausanne Research Foundation, *Reproductive Tactics in the Argentine Ant*, 13'800 Frs
- 1984 Georgine Claraz Foundation, *Reproductive Strategy of the Argentine Ant*, 3'500 Frs
- 1984 "Société Académique Vaudoise" Foundation, *Queen Number and Reproductive Structure of the Argentine Ant*, 4'000 Frs

#### Organization of Meetings/Symposia

- 2018 Symposium entitled "Past and Future Social Insect Invasions", International Congress of the International Union for the Study of Social Insects, Guarujá, Brazil (with C. Bertelsmeier)
- 2016 Member of the Organizing Committee of the Life Science Switzerland LS<sup>2</sup> meeting "Interdisciplinary Research", Lausanne (with 9 other persons)
- 2015 Member of the Organizing Committee of the International Congress of the European Society for Evolutionary Biology, Lausanne (with 11 other persons)
- 2015 Symposium entitled "Evolution of Genomes", International Congress of the European Society for Evolutionary Biology, Lausanne (with Alexandre Reymond)
- 2015 Open Symposium, International Congress of the European Society for Evolutionary Biology, Lausanne (with John Pannel)
- 2014 Member of the Organizing Committee of the Life Science Switzerland LS<sup>2</sup> meeting "Evolution and Genomes", Lausanne (with 9 other persons)
- 2014 CUSO Workshop entitled "Evolution and Genomes", Villars (with Alexandre Reymond)
- 2013 CUSO Workshop entitled "Inclusive fitness and game theory", Arolla (with Laurent Lehmann)
- 2011 CIG Seminar "Genetics of Behavior", University of Lausanne (with M. Tafti and S. Carmen)
- 2010 Workshop entitled "Lausanne Genomics days", within the framework of the "3e Cycle Romand of Biological Sciences", University of Lausanne (with O. Hagenbüchle and P. Reymond)
- 2009 Symposium entitled "Evolution and Medicine" for the general public (200 years Darwin), Hospital and University of Lausanne (with T. Kawecki)
- 2009 Member of the program Committee for the Swarm Cognition Workshop, Annual Meeting of the Cognitive Science Society, Amsterdam
- 2009 Member of the program Committee on Social Learning Agents, 10<sup>th</sup> European conference on Artificial Life, Budapest
- 2008 Symposium entitled "Aging: linking evolution with mechanisms" within the framework of the "3e Cycle Romand of Biological Sciences", Fribourg (with T. Kawecki and F. Mueller)
- 2008 European Meeting of the International Union for the Study of Social Insects, Roche-En-Ardenne, member of the program committee
- 2008 Workshop entitled "Lausanne Genomics days", within the framework of the "3e Cycle Romand of Biological Sciences", University of Lausanne (with O. Hagenbüchle and P. Reymond)
- 2007 Workshop entitled "Genes, Genomes and Evolution", within the framework of the "3e Cycle Romand of Biological Sciences", Villars (with O. Hagenbüchle, H. Kaessman, X. Perret and A. Reymond)
- 2007 Workshop entitled "Lausanne Genomics days", within the framework of the "3e Cycle Romand of Biological Sciences", University of Lausanne (with O. Hagenbüchle and P. Reymond)

- 2006 Symposium entitled "The Nature of Human Cooperation", University of Lausanne (with M. Chapuisat, J. Dubochet, J. Goudet and N. Perrin)
- 2006 Symposium entitled "Gene and Gene Networks underlying Social Biology and Behavior" during the International Congress of the International Union for the Study of Social Insects, Washington DC (with J. Wang and G. Bloch)
- 2006 Workshop entitled "Lausanne Genomics days", within the framework of the "3e Cycle Romand of Biological Sciences", University of Lausanne (with O. Hagenbüchle and P. Reymond)
- 2006 Member of the Program committee "9th European Conference on Artificial Life, From Animals to Animates", 25-30 September, CNR Roma
- 2005 Workshop entitled "Lausanne Genomics days", within the framework of the "3e Cycle Romand of Biological Sciences", University of Lausanne (with O. Hagenbüchle and P. Reymond)
- 2004 Workshop entitled "Lausanne Genomics days", within the framework of the "3e Cycle Romand of Biological Sciences", University of Lausanne (with O. Hagenbüchle and P. Reymond)
- 2003 Workshop entitled "Lausanne Genomics days", within the framework of the "3e Cycle Romand of Biological Sciences", University of Lausanne (with O. Hagenbüchle and P. Reymond)
- 2003 Member of the Scientific Committee 5<sup>th</sup> International Workshop "Information Processing in Cells and Tissues (IPCAT2003)", September 8 - 11, 2003, Swiss Federal Institute of Technology, Lausanne
- 2003 Workshop entitled "Social Insect Genomics", within the framework of the INSECT EU network, University of Lausanne (with R. Hammond)
- 2002 Workshop entitled "Evolutionary and Ecological Genomics", within the framework of the "3e Cycle Romand of Biological Sciences", University of Lausanne (with P. Reymond)
- 2001 Symposium entitled "Sociality and Population Genetics", International Congress of the European Society for Evolutionary Biology, Aarhus (with L. Sundström, J. Goudet and N. Perrin)
- 2001 Workshop entitled "Evolutionary and Ecological Genomics", within the framework of the "3e Cycle Romand of Biological Sciences", University of Lausanne (with Y. Poirier, P. Reymond, J. Goudet, N. Perrin, I. Sanders and J.P. Zryd)
- 2000 22e Annual Meeting of the Association for the study of Biology and Population Genetics, Dijon, with J. Goudet and N. Perrin, Frank Cézilly, Marie-Jeanne Perrot-Minot and Sandrine Trouvé)
- 2000 Workshop entitled "Social Systems and Genetic Structures" within the framework of the "3e Cycle Romand of Biological Sciences", La Sage (with J. Goudet and N. Perrin)
- 1999 Member of the Scientific Committee "5th European Conference on Artificial Life, the 1999 International EPFL-Latsis Foundation Conference", 13-17 September, Swiss Federal Institute of Technology, Lausanne
- 1999 Workshop entitled "Relatedness: concept, measure and evolutionary implications" within the framework of the "3e Cycle Romand of Biological Sciences", La Sage (with J. Goudet and N. Perrin). Invited speakers: Steve Frank, Dave Queller, François Rousset, Jon Seger and Mike Wade
- 1997 Public Conferences Cycle (Faculty of Sciences, University of Lausanne) on the theme "Sex". Invited speakers: Frank Cézilly, François Renaud and Pierre-Henry Gouyon
- 1997 Symposium entitled "Cooperation and Conflict in Animal Societies", International Congress of the European Society for Evolutionary Biology, Arnhem (with J. Heinze)
- 1996 Workshop entitled "Cooperation and Conflict" within the framework of the "3e Cycle Romand of Biological Sciences", La Sage (with N. Perrin). Invited speakers: David Haig, John Maynard Smith, Geoff Parker, Anne Pusey, Francis Ratnieks, Eors Szathmary
- 1995 Workshop entitled "Biology and Economics", annual meeting of the Swiss Academy of Sciences, St-Gall
- 1994 Symposium entitled "Intracolony conflicts. Ultimate factors", 12th Meeting of the International Union of the Study of Social Insects, Paris (with J. Herbers)
- 1994 Workshop entitled "Evolution in Structured Populations" at the Institute of Zoology and Animal Ecology, University of Lausanne (with J. Goudet and N. Perrin)
- 1990 Symposium entitled "Evolution and significance of polygyny in social insects", 11th Meeting of the International Union for the Study of Social Insects, Bangalore
- 1989 Annual Meeting of the French Section of the International Union of the Study of Social Insects, Le Brassus (with D. Cherix)

#### Invited Seminars

- 2018 Department of Geography and Sustainability, University of Lausanne

2018 Department of Computational Biology, University of Lausanne  
 2017 Department of Arts & Sciences, University of Tokyo  
 2017 Chinese Academy of Sciences, Beijing  
 2016 Cambridge University  
 2016 University of Pennsylvania  
 2016 Vetmeduni Vienna  
 2014 Oxford University  
 2014 University of East Anglia  
 2014 Penn State University (Huck Distinguished Lecture)  
 2014 University of Texas, Austin  
 2014 University of Columbia  
 2013 Düsseldorf University  
 2013 University of Rockefeller  
 2013 University of British Columbia  
 2013 Universidade Federal de Pernambuco  
 2012 University of Bern, Lecture Series in Ecology and Evolution  
 2012 EPFL, Graduate Course special seminar  
 2012 National Centre for Biological Sciences (NCBS), Bangalore  
 2012 Indian Institute of Science (IIS), Centre for Ecological Sciences, Bangalore  
 2012 Trinity College, Dublin  
 2012 UCL, Bioscience Division  
 2011 Biozentrum Lecture, Biozentrum, University of Basel  
 2011 University of Ryukyus, Okinawa  
 2011 Paris Interdisciplinary College, Cochon-Port-Royal Medicine Faculty  
 2010 Center for Astrobiology, Madrid  
 2010 EPFL, Life Sciences Seminar  
 2009 University of Zurich, Special Evolution Seminars for Darwin's year  
 2009 Weizmann Institute, Life Science Colloquium  
 2009 North Carolina State University, Distinguished Seminar Speaker series of the W. M. Keck Center for Behavioral Biology  
 2009 University of Toronto, Department of Ecology and Evolutionary Biology  
 2009 Stony Brook University, Department of Ecology and Evolutionary Biology  
 2009 Institute for Advanced Studies at Princeton  
 2009 Penn State University, Department of Entomology  
 2009 Cornell University, Department of Molecular Biology and Genetics  
 2009 Rochester University, Department of Biology  
 2008 University of Rockefeller  
 2008 University of Tübingen, EvE Hilgendorf Lecture Series  
 2008 EAWAG, University of Bern, Department of Ecology and Evolution  
 2007 University of Cambridge, Department of Zoology  
 2007 University of Copenhagen, Department of Population Ecology  
 2007 University of Georgia, Department of Entomology  
 2007 EPFL, Global Health Institute  
 2006 University College London, Center for Ecology and Evolution (CEE)  
 2006 University of Oxford, Department of Zoology  
 2006 Jacques-Monod Institute, Paris  
 2006 University of Geneva, Department of Plant Sciences  
 2005 University of Lyon, Department of Life Sciences  
 2005 University of Regensburg, Department of Biology  
 2005 University of Lausanne, Department of Ecology and Evolution



- 2005 University of Copenhagen, Department of Population Ecology
- 2005 Paris Interdisciplinary College, Cochin-Port-Royal Medicine Faculty) (Opening Seminar)
- 2004 University of Bern, Department of Ecology and Evolution
- 2004 ISREC (Swiss Institute for Experimental on Research on Cancer) guest lecture during an off-site day
- 2004 University of Lausanne, Biodiversity and Genomic Interactions Seminar
- 2004 University of Bern, Department of Plant Sciences
- 2003 Centre Hospitalier Universitaire Vaudois (CHUV), Transbugnon Research Conferences
- 2003 University of Geneva, Seminars in Cellular and Molecular Biology
- 2003 University Libre of Bruxelles
- 2002 University of Calgary, Distinguished Lecture Series, Institute of Biochemistry and Molecular Biology
- 2002 University of Geneva, Academic Thursday, Faculty of Medicine
- 2002 University of Rockefeller
- 2002 University of Edinburgh, Institute of Cell, Animal and Population Biology
- 2002 University of Cambridge, Institute of Zoology
- 2002 Max-Planck Institute für Entwicklungsbiologie, Tübingen
- 2001 University of Fribourg, Department of Physics
- 2001 ETH Zurich, Department of Computational Sciences
- 2001 University of Fribourg, Institute of Zoology
- 2001 University of Uppsala, Department of Animal Ecology
- 2001 University of Zurich, Institute of Zoology
- 2001 Max Planck Institute for Evolutionary Anthropology, Leipzig
- 2001 University of Montpellier II, CEFE
- 2001 University of Fribourg, interactive seminars, Department of Biology
- 2001 University of Amsterdam (Netherlands), Seminars on Ecology and Evolution
- 2000 National Academy of Sciences, Wien, Konrad Lorenz-Institut für Vergleichende Verhaltensforschung
- 2000 Harvard University, Museum of Comparative Zoology
- 2000 ISREC (Swiss Institute for Experimental on Research on Cancer), Institute Ludwig and University of Lausanne (Institute of Biochemistry) common seminars, Epalinges
- 2000 University of Princeton, Department of Molecular Biology and Department of Physics
- 2000 University of Basel, Institute of Botany
- 1999 University of Lausanne, General conference for the public
- 1999 University of Lyon, Department of Life Sciences
- 1999 University of François Rabelais, Tours, Institute of Research on the Biology of Insects
- 1998 Confederation of European Pest Control Association, Geneva
- 1998 University of Montpellier., Center of Functional Ecology and Evolution
- 1998 University of Konstanz, Institute of Ethology
- 1998 University of Lausanne, General conference for the public
- 1998 University of Bern, Institute of Zoology
- 1998 Center of Applied Ecology of the Littoral, Corrientes
- 1998 University of Lausanne and Federal Institute of Technology, Lausanne, Association "Vaudoise" of researchers in physics
- 1997 University of Bern, Institute of Zoology
- 1996 University of Bern, Institute of Zoology
- 1996 University of Zurich, Institute of Zoology
- 1996 University of Lausanne, Institute of Zoology and Animal Ecology
- 1996 University of Texas, Austin, Department of Zoology
- 1996 University of Georgia, Athens, Department of Ecology
- 1996 University of Pierre and Marie Curie, Laboratory of Ecology
- 1996 "Sciences et Citoyens" Meeting organised by the CNRS, Poitiers (Theme: can Biology explain the Society?)

- 1995 University of Zurich, Institute of Zoology
- 1995 University of Lausanne, Institute of Zoology and Animal Ecology
- 1995 Technische University of Berlin, Biology Institute
- 1995 University of Zurich, Biodiversity seminars
- 1995 Museum of Zoology, Lausanne
- 1995 University of Lausanne, Faculty of Sciences
- 1995 Cornell University, Department of Neurobiology and Behavior
- 1994 University of Helsinki, Department of Zoology
- 1994 University of Zurich, Institute of Zoology
- 1994 Special Symposium “Evolution of Colony Characteristics in Social Insects”, Tvärminne Zoological Station
- 1994 University of Neuchâtel, Institute of Zoology
- 1994 Harvard University, Department of Organismic Biology
- 1994 University of Lausanne, Faculty of Sciences
- 1993 University of Lausanne, Institute of Zoology and Animal Ecology
- 1993 University of Paris-Sud XI, Department of Evolution and Plant Systematics
- 1993 University of Paris-Nord, Department of Experimental and Comparative Ethology
- 1993 University of Basel, Institute of Zoology
- 1993 University of Sheffield Special Symposium on the Biology of Spermatozoa
- 1993 University of Fribourg, Faculty of Sciences
- 1993 Max-Planck Institut für Verhaltensphysiologie, Seewiesen
- 1993 Oxford University, Department of Zoology
- 1993 University of Cambridge, Department of Zoology
- 1993 University Imperial College at Silwood Park, Department of Biology
- 1992 University of Geneva
- 1992 Rice University, Department of Ecology and Evolutionary Biology
- 1992 Harvard University, Population Biology Seminars
- 1992 University of Fribourg, Institute of Zoology
- 1992 University of Bern, Section Ethology
- 1992 University of Würzburg, Theodor-Boveri Institut
- 1992 University of Paul-Sabatier, Toulouse, Department of Behavioural Ecology
- 1991 University of Madison, Wisconsin, Department of Entomology
- 1991 University of California, Berkeley, Department of Entomology
- 1991 University of California, Davis, Department of Entomology
- 1990 University of Bern, Institute of Zoology
- 1990 University of Zurich, Institute of Zoology
- 1990 Harvard University, Department of Organismic Biology
- 1986 University of Paul-Sabatier, Toulouse, Department of Entomology

**Talks for General Audience and Lay Public (Representative Choice)**

- 2018 Forum Caisse d’Epargne et Crédit Riviera
- 2018 Mystères de l’UNIL
- 2018 University of Lausanne alumni (ALUMNIL), Lausanne
- 2017 Digital Real Estate Summit, Romandie, Lausanne
- 2016 Café Scientifique Bancs Publics « Altruisme », Genève
- 2015 7<sup>ème</sup> Congrès HR Sections Romandes. Les Relations Humaines : Du cerveau au comportement, Lausanne
- 2014 Colloque Parascolaire: Enfance Oblige, Lausanne
- 2013 Talk for the Group for Animal Experimentation, CHUV
- 2013 Cercle Littéraire, Lausanne
- 2013 Parc Galea, Bastia
- 2012 Talk for the 125 years of the Lausanne PMU (Polyclinique Médicale Universitaire)

- 2011 TEDx Lausanne, IMD
- 2010 Fondation Suisse d'Etudes, Nyon
- 2010 SASH (Service des Assurances Sociales de l'Hébergement), Yverdon-les-Bains
- 2007 "Cours Public" University of Lausanne on the theme "Can the Human Species be Improved"
- 2007 Special talk for undergraduate students "What does it mean to do a PhD"
- 2007 Ornithology Society Yverdon-Les-Bains
- 2007 University of Neuchatel, seminars for elderly people
- 2007 Salon du livre Geneva, general talk about ant social organization
- 2007 Semaine de la Mobilité, Lausanne, talks about ant foraging strategies for the "Business Mobility Forum"
- 2007 Forum "Movimento for mobility", SwissPost
- 2006 University of Lausanne, Special Conferences for Guests of the Swiss Post
- 2006 University of Lausanne, General conference for the public
- 2006 University of Lausanne, Interdisciplinary Seminars on "Cooperation"
- 2006 Geneva Hospital, Department of Internal Medicine
- 2005 Festival "Sciences-Cité" Cognitive issues, from Animals to Humans , invited speaker
- 2005 Connaissance 3, General Lectures for the public of Canton de Vaud
- 2004 The "Festival des Sciences", Chamonix, invited speaker
- 2000 Society "Vaudoise" of Natural History and Groups for Biological Research
- 1999 University of Lausanne, General conference for the public
- 1999 Library of France, Paris, debate on the theme "The Man and origin of life", Conference organized jointly with the scientific magazine *La Recherche*
- 1998 Confederation of European Pest Control Association, Geneva
- 1998 University of Montpellier, Center of Functional Ecology and Evolution
- 1997 University of Lausanne, general conference for the public
- 1996 Swiss Association of Managers, Geneva
- 1996 "Sciences et Citoyens" Meeting organized by the CNRS, Poitiers (Theme: can Biology explain the Society?)
- 1995 Society "Neuchâteloise" of Natural History
- 1995 Society "Vaudoise" of Natural History, Lausanne
- 1989 Society "Vaudoise" of Entomology, Lausanne

**Presentation of Talks at Meetings**

- 2019 Symposium “Insects: friends, foes and models”, French Academy of Sciences, Paris, invited participant
- 2018 D.Day, Research workshop organized by the graduate students of the Faculty of Biology and Medicine, University of Lausanne, plenary talk
- 2018 François Jacob Meeting “Behaviour and Cognition”, Collège de France, Paris, invited participant
- 2018 International Congress, ESEB/ASN/SSB/SSE, meeting Montpellier, outreach conference for the general public
- 2018 Short Training Course in Environmental Omics, Birmingham, keynote lecture
- 2018 38<sup>th</sup> European European Workshop for Rheumatology Research, Geneva, keynote lecture
- 2017 EvoLyon2017, Lyon, plenary speaker
- 2017 Symposium “Emergence and Self-Organization in Living Systems”, Zürich, keynote speaker
- 2017 FMI Annual Meeting, Grindewald, keynote lecture
- 2017 Workshop, “Major Transitions”, CRI, Paris, invited participant
- 2017 2<sup>nd</sup> International Symposium on Swarm Behavior and Bio-Inspired Robotics, Kyoto, keynote speaker
- 2017 Symposium “Social Evolution and Genome Complexity”, Columbia University, invited speaker
- 2016 Excellence Symposium 2016, Biozentrum, Basel, distinguished guest speaker
- 2016 “Evolution of Social Behavior”, The Journal of Experimental Biology Symposium, Mürren, invited speaker
- 2016 “SeX in the citY”, symposium, European Society of Human Genetics (ESHG), Barcelona, invited speaker
- 2015 Annual Retreat of the *URPP Evolution in Action*, Flüeli-Ranft, keynote lecture
- 2015 Life Science Symposium, EPFL, Lausanne, invited speaker
- 2015 15th International Congress, European Society for Evolutionary Biology, presidential talk
- 2015 Gordon conference on "Ecological & Evolutionary Genomics", University of New England in Biddeford, invited speaker
- 2015 Conference “Physics of Emergent Behaviour – II”, Science Museum in London, invited speaker
- 2015 Annual Meeting, Ethological Society of Italy, Parma, plenary speaker
- 2015 Center of Integrative Genomics (CIG) symposium “A decade in Genomics”, invited speaker
- 2015 “Biology and Genomics of Social Insects” Meeting, Cold Spring Harbor, keynote lecture
- 2014 EMBO Conference “Experimental Approaches to Evolution and Ecology”, Heidelberg, invited speaker
- 2014 Workshop “Systems Genetics and Evolution of Non-human (model) Organisms”, Monte Verità, invited speaker
- 2014 CUSO Workshop "Social Evolution: Merits and Limitations of Inclusive Fitness Theory", Arolla, keynote address
- 2014 16th Meeting, International Union for the Study of Social Insects, Cairns, invited lecture
- 2014 Janelia Conference “Life in the Aggregate: Mechanisms and Features of Social Dynamics”, Janiela Farm Research Campus, Ashburn, invited speaker
- 2014 Annual Meeting Entomological Society of America, special symposium “Social Insects as Models for Biological Complexity: Lessons Learned and Challenges on the Horizon”, Portland, invited speaker
- 2014 2nd Workshop on Biological Distributed Algorithms, Austin, invited speaker
- 2013 Workshop “Animal Swarms: a Natural Wonder with great Environmental Implications”, Kfar Blum, invited speaker
- 2013 1st Weizmann Student Symposium on Systems Biology, invited speaker
- 2013 EMBO/EMBL Symposium “New Model Systems for linking Evolution and Ecology”, Heidelberg, invited speaker
- 2013 Symposium “Lausanne Genomics Days”, invited speaker
- 2013 Symposium “Social Interactions and Indirect Genetic Effects”, Wageningen, keynote speaker
- 2013 XXI Brazilian Myrmecological Symposium, Fortaleza, plenary speaker
- 2013 19<sup>th</sup> European Meeting of PhD Students in Evolutionary Biology (EMPSEB), Penryn, Cornwall, keynote speaker
- 2012 Workshop “Big question in Behavioural Biology”, Neuchâtel, invited speaker
- 2012 11th ECCB "European Conference on Computational Biology", Basel, keynote speaker
- 2012 14th National and 11th Iberoamerican Meeting, Spanish Ethological Society, Sevilla, plenary lecture
- 2011 EPSRC Workshop “Evolution of Microbial Cooperation”, Bath, invited speaker
- 2011 27th Annual Meeting, Society of Population Ecology, Okayama University, plenary lecture
- 2011 Gordon conference on "Developmental Biology", Proctor Academy, invited speaker (talk given by John Wang)
- 2011 German Genetics Society Annual Meeting, Würzburg, plenary lecture
- 2011 “Trends and Controversies in Evolutionary Developmental Biology” Meeting, Max Planck Society, Ringberg Castle, Tegernsee, invited speaker
- 2011 4th Ecogenomics Day, Netherlands Ecogenomics Research Organisation (NERO), Amsterdam, keynote

speaker

- 2010 Label FBM, Lausanne, invited talk
- 2010 3rd National Ecogenomics Day, Netherlands Ecogenomics Research Organisation (NERO), Amsterdam, keynote speaker
- 2010 Incore Meeting “Cooperation: An Interdisciplinary Dialogue”, Budapest, keynote speaker
- 2010 Evolutionary Biology Symposium, Graduate Program in Evolution, Ecology and Systematics (EES-LMU) and the Volkswagen Foundation, Frauenchiemsee, main speaker
- 2010 Workshop “Creating Interdisciplinary Research Project”, Frejus, invited teacher and speaker
- 2010 Colloquium Biology of Insects (CBI), Lyon, keynote speaker
- 2009 EU network of Excellence “Lifespan”, annual meeting Leiden, invited speaker
- 2009 Royal Society Discussion Meeting “The Evolution of Society”, London, invited speaker
- 2009 Evolution meeting, Institute of Advanced Studies, Hebrew University, Jerusalem, invited speaker
- 2009 COLOSS workshop “New Molecular Tools”, Cost Action, Liebfeld, plenary speaker
- 2009 10<sup>th</sup> Invertebrate Neurobiology Club Meeting, Dijon, plenary speaker
- 2008 Gordon conference on "Genes and Behavior", Il Ciocco, Barga, invited speaker
- 2008 Meeting Union of Swiss Societies for Experimental Biology (USGEB) “New Landscapes for the Life Sciences: Biology meets Engineering”, Lausanne EPFL, plenary lecture
- 2008 Fourth European Meeting, International Union for the Study of Social Insects, Bruxelles, plenary lecture
- 2008 Programme Gulbenkian Champalimaud Neuroscience (PGCN) graduate course symposium, Lisbon, invited speaker
- 2008 Symposium "Genetics and Genomics of Behavior", American Genetic Association, Raleigh, invited speaker
- 2008 Symposium “Lausanne Genomics Days”, invited speaker
- 2008 ESF Meeting “The extended phenotype”, Copenhagen, invited participant
- 2008 Ultra High Throughput Sequencing 2<sup>nd</sup> Meeting, Lausanne, invited speaker
- 2007 Annual Ph.D. student meeting by the National Center of Competence in Research "Plant Survival", Neuchatel, invited speaker
- 2007 Annual Meeting, French Section of the International Union for the Study of Social Insects, Toulouse, plenary lecture
- 2007 British Ecological Society, Glasgow, "The Evolutionary Ecology of Aging", invited speaker
- 2006 Symposium "Conflict and Cooperation: the Evolution of Social Interactions", Harvard, invited speaker
- 2006 15th Meeting, International Union for the Study of Social Insects, Washington, invited speaker
- 2006 Second Congress, Italian Evolutionary Biology Society, Florence, keynote address
- 2006 Meeting 3eme cycles "Evolutionary Mechanisms underlying Social Interactions", Bern, invited speaker
- 2005 Center for Nonlinear Studies Workshop “Collective Information and Specialization in Collective Systems”, Los Alamos National Laboratories, Santa Fe, invited speaker
- 2005 Gordon conference on “Evolutionary and Ecological Functional Genomics”, Oxford, invited speaker
- 2005 10th International Congress, European Society for Evolutionary Biology, Krakow, invited speaker
- 2005 EMBO Workshop on Principles of Self-Organization in Living Matter, Heidelberg, invited speaker
- 2005 Inaugural Meeting « Paris Interdisciplinary College (PIC) », invited speaker
- 2005 Workshop "Innovation in Biological Systems: Mechanisms, Evolution, and Consequences”, Institut des Hautes Études Scientifiques, Bures-sur-Yvette, invited speaker
- 2004 D.Day, Research workshop day organized by the graduate students of the Faculty of Biology and Medicine, University of Lausanne, plenary talk
- 2004 American Society of Microbiology Conference on “Cell-Cell Communication in Bacteria”, Banff, plenary lecture
- 2004 Final symposium for the EU TMR Network "Insect", Helsingoer, overview lecture as a project leader
- 2004 EU meeting ECAgents, Rome, as a participant to the EU project
- 2004 Journées Scientifiques of the Ecole Normale Supérieure de Paris, invited guest
- 2003 Annual Symposium, Institute of Biology, Leiden “Progress in Evolution: from Molecules to Communities”, keynote address
- 2003 EU TMR Network "Insect" workshop, Laufen, overview lecture as a project leader in the EU funded

project

- 2003 12<sup>th</sup> Arolla Workshop "Growth Control in Development and Disease", invited lecture
- 2003 EU Workshop "Exploring the Continuum of Development and Ageing: a Key Biomedical Challenge in Changing World", Brussels, invited participant
- 2002 Annual Conference, Swiss Botanical and Zoological Societies, Bern, Darwin Birthday's keynote address
- 2002 Research Workshop on Aging, University of Geneva, invited lecture
- 2002 Workshop "Collective Intelligence Seminar", University of Fribourg, invited lecture
- 2002 Dahlem Workshop on "Genetic and Cultural Evolution of Cooperation", Berlin, invited contributor
- 2002 14th Meeting, International Union for the Study of Social Insects, Sapporo, invited talk
- 2002 Life Science and Society (meeting organised for the 50 years of the Swiss NSF)
- 2001 EU TMR Network "Social Evolution" workshop, Granada, overview lecture as group leader in the EU funded project
- 2001 Workshop "Principles of Social Evolution", Wissenschaftskolleg Berlin, plenary lecture
- 2001 Symposium on the "Use of DNA Microarray in Evolutionary Biology", Bern invited lecture (given by my co-author Joel Parker)
- 2001 8th International Congress, European Society for Evolutionary Biology, Aarhus, invited speaker
- 2000 International Workshop "Reproductive skew", Cornell, Ithaca, plenary lecture
- 2000 EU TMR Network "Social Evolution" concluding workshop, Firenze, invited lecture
- 2000 8th International Meeting, Behavioural Ecology Society, Zürich, plenary lecture
- 2000 Workshop "Evolutionary Ecology of Sex", Groningen, plenary lecture
- 1999 Workshop "Cooperation and Conflict in Evolution" sponsored by The Center for Ecology and Evolution (CEE, University College London) and the Center for Population Biology (Silwood Park, Imperial College), London, plenary lecture
- 1999 Annual Meeting, French Section of the International Union for the Study of Social Insects, Tours, plenary lecture
- 1999 Annual Meeting, German Section of the International Union for the Study of Social Insects, Hohenheim, plenary lecture
- 1999 International Day of Older Persons "The Mysteries of Longevity: From Animals to Man" organized by the Geneva International Network on Ageing (GINAI) and OMS, Geneva, plenary lecture
- 1999 Special workshop "Aging: toward understanding the secret of centenarians", Hospital of Cery, Lausanne-Prilly, invited lecture
- 1999 Conferences of the sections V and VI of the Swiss Academy of Sciences "New trends in biological sciences", Bern, plenary lecture
- 1998 Santa Fe Institute Workshop "The Interplay of Ultimate Causes and Proximate Determinants of Animal Sociality", Santa Fe, plenary lecture
- 1998 Annual Conference, Swiss Zoological and Botanical Societies, Geneva
- 1998 International Meeting "The Mathematical Biology of Pattern and Progress", Bath, plenary lecture
- 1998 CNRS Conference Jacques Monod "The Evolutionary Theory at the Dawn of the Millennium", Roscoff, plenary lecture
- 1998 13th Meeting, International Union for the Study of Social Insects, Adelaide, invited lecture
- 1997 Annual Meeting, Society for Study of Evolution, Boulder, with Giorgina Bernasconi
- 1997 European Science Foundation workshop "Social Evolution in Vertebrates and Invertebrates: Common Principles and Idiosyncratic Differences", University of Sheffield, invited speaker
- 1997 French Meeting on "Microsatellites and Population Genetics", Paris, plenary lecture
- 1997 6th International Congress, European Society for Evolutionary Biology, Arnhem, invited speaker
- 1997 European Community TMR Network "Workshop Behavioural Ecology", Würzburg, plenary lecture
- 1997 Deutsche Forschungsgemeinschaft Schwerpunktprogramm "Genetic analyses of social systems", Bonn, plenary lecture
- 1997 Dutch Society for Behavioural Biologists, Zwolle, plenary lecture
- 1997 Population Genetic Group Meeting, Nottingham, plenary lecture
- 1996 Annual Conference, Swiss Zoological Society, Fribourg
- 1996 5th International Congress of Systematics and Evolutionary Biology, Budapest, invited speaker
- 1995 24th International Ethological Conference, Honolulu, plenary lecture

- 1995 5th International Congress, European Society for Evolutionary Biology, Edinburgh, invited speaker
- 1995 Annual Meeting, Entomological Society of America, Las Vegas, plenary lecture
- 1994 Annual Conference, Swiss Zoological Society, Lausanne
- 1994 Annual Meeting, Society for Study of Evolution, Athens GA
- 1994 Annual Summer Meeting, Association for the Study of Animal Behaviour, Bern, invited speaker
- 1994 5th International Meeting, Behavioural Ecology Society, Nottingham
- 1994 12th Meeting, International Union for the Study of Social Insects, Paris, invited speaker
- 1994 Special Meeting "Evolution in Structured Populations", Lausanne
- 1993 Annual Conference, Swiss Zoological Society, Bern
- 1993 4th International Congress, European Society for Evolutionary Biology, Montpellier
- 1993 "Cycle Romand" of Biological Sciences, Bern
- 1993 Annual Winter Meeting, Association for the Study of Animal Behaviour, London, invited speaker
- 1992 Annual Conference, Swiss Zoological Society, Geneva
- 1992 4th International Meeting, Behavioural Ecology Society, Princeton
- 1991 Annual Conference, Swiss Zoological Society, Neuchâtel
- 1991 1st European Meeting, International Union for the Study of Social Insects, Leuven
- 1991 Annual Meeting, Entomological Society of America, Reno
- 1990 Annual Conference, Swiss Zoological Society, Zurich
- 1990 11th Meeting, International Union for the Study of Social Insects, Bangalore
- 1990 Annual Meeting, Entomological Society of America, New Orleans
- 1989 "3eCycle Romand" of Biological Sciences, Lausanne
- 1989 Annual Meeting, German Section, International Union for the Study of Social Insects, Bern
- 1989 Annual Meeting, French Section, International Union for the Study of Social Insects, Le Brassus
- 1988 Annual Meeting, French Society for the Study of Animal Behaviour, Lyon
- 1988 Annual Meeting, Swiss Entomological Society, Geneva
- 1988 18th International Meeting of Entomology, Vancouver
- 1988 Annual Meeting, British and French sections of the International Union for the Study of Social Insects, London
- 1987 Annual Meeting, French Section of the International Union for the Study of Social Insects, Paimpont
- 1986 10th Meeting, International Union for the Study of Social Insects, München
- 1985 Annual Meeting, Swiss Entomological Society, Lausanne
- 1985 Annual Meeting, French Society for the Study of Animal Behaviour, Toulouse
- 1984 Annual Meeting, French Section of the International Union for the Study of Social Insects, Diepenbeck

### **Teaching Experience**

#### *Courses given on a regular basis*

- 2010- Participation to a Bachelor course "Mechanisms of Evolution", University of Lausanne
- 2007- Master course, "The Major Transitions in Evolution", University of Lausanne
- 2004- Co-organisation of the BIG seminars, campus of Dorigny Lausanne
- 2001- Participation to the organization of a seminar course in Ecology and Evolution
- 2001- Bachelor introductory course "Evolution", University of Lausanne
- 2000-2007 Master course "Evolutionary Mechanisms", University of Lausanne
- 1999-2002 Sampling methods and data analysis (graduates), Universities of Lausanne, Geneva, Neuchâtel, Fribourg and Bern
- 1997-2009 Bachelor course "Experimental Design", University of Lausanne
- 1996-2001 General Ecology (undergraduates), University of Lausanne
- 1996-2000 Supervision of three laboratory courses (Population Biology, Theoretical Ecology, and Zoology) (undergraduates), University of Lausanne
- 1996-2000 Population Biology (undergraduates), University of Lausanne
- 1996-2000 Theoretical Ecology (undergraduates), University of Lausanne

- 1996-2000 Seminar course in Ecology (undergraduates), University of Lausanne  
 1996-2000 Seminar course in Zoology and Botany (graduates), University of Lausanne

*Courses given on a non-regular basis*

- 2014 Ant Course, Maliau Basin Field Centre, Sabah Borneo, Malaysia  
 2012 Advanced Course "Genes and Behavior" at the National Centre for Biological Sciences, Bangalore  
 2008 Special Graduate Course for the NCCR Plant Survival, Neuchâtel "How to write a scientific paper"  
 2007 Special Graduate Course for the Ecology and Evolution Doctoral School for French speaking Universities on "How to write a scientific paper"  
 2005 Project Determinisms (Innate and Acquired Components in the Constitution of Individuals), Presentation on "Natural Basis of Ethics"  
 2004 DEA "The individual: Philosophy, Epistemology and Ethics", University of Geneva, participation to teaching  
 2004 Module "Genes and Behaviour", Certificat of Neurosciences, University of Geneva, participation to teaching  
 2000 Aging: The Secret of Centenaries, (courses for adult education), participation to teaching  
 2000 School on "ADN Microsatellites" organized by the CNRS and INRA, La Grande Motte, participation to teaching  
 2000 Biomedical Ethics. Contribution to a seminar entitled "Sociobiology: Genetics and Behaviour", University of Lausanne  
 2000 "Social Evolution" general course (undergraduates), University of Lausanne  
 1999 Insects, architecture and arts, Federal Institute of Technology, Lausanne, participation to teaching  
 1998 Course of Tropical Biology (organised by the Tropical Biology Association), Amani, Tanzania, 1-28 September  
 1997 Informatics and Biology: from Models to their Applications, (master students), Federal Institute of Technology, Lausanne, participation to teaching  
 1997 Genetic Systems and Programming, (master students), Federal Institute of Technology, Lausanne, participation to teaching  
 1996-1997 Environmental sciences, (master students), Federal Institute of Technology, Lausanne, participation to teaching  
 1996 Cellular Networks, (master students), Federal Institute of Technology, Lausanne, participation to teaching  
 1994-1996 Evolutionary Ecology, (undergraduates), University of Lausanne  
 1993-1996 Student seminars at Bern and Lausanne Universities (undergraduates and graduates), participation to the organization  
 1985-1989 Laboratory course in Entomology, (undergraduates) University of Lausanne  
 1983-1986 Laboratory course in Zoology, (undergraduates) University of Lausanne

**Habilitations and Theses Committees, University of Lausanne: 29**

**Habilitations and Theses Committees (outside of Lausanne University)**

- 2017 Thesis committee of Sharon Wismer (defense), University of Neuchâtel  
 2014 Thesis committee of Sharon Wismer (mid-thesis), University of Neuchâtel  
 2013 Thesis committee of Vicencio Oostra, Leiden University  
 2012 Thesis committee of Sylvain Londe, University Pierre and Marie Curie, Paris  
 2009 Thesis committee of Benjamin Houot, University of Dijon  
 2007 Thesis committee of Daniel J. C. Kronauer, University of Copenhagen  
 2007 Thesis committee of Juliette Pons, University of Fribourg  
 2006 Thesis committee of Ellen Van Wilgenburg, University of Melbourne  
 2005 Thesis committee of Michiel Dijskstra, University of Copenhagen  
 2003 Habilitation committee Frédéric Fleury, University Claude Bernard, Lyon  
 2003 Thesis committee of Ambroise Dalecki, University of Montpellier



2002	Thesis committee of Minttumaaria Hannonen, University of Helsinki
2001	Thesis committee of Anne Tsitrone, University of Montpellier
1999	Thesis committee of Tom Little, University of Basel
1999	Thesis committee of Pierre Frank, University of Montpellier
1998	Thesis committee of Rachel A. Allan, University of Melbourne
1998	Thesis committee of Laurence Gaume, University of Montpellier
1998	Thesis committee of Wee Tek Tay, La Trobe University
1997	Thesis committee of Laura Walin, University of Helsinki
1997	Thesis committee of Steffi Knoll, University of Neuchâtel
1997	Thesis committee of Peter Jann, University of Zürich
1996	Thesis committee of Else Juliette Fjordingstad, University of Aarhus

#### **Master Students Currently Supervised**

2018- Andrea Coti

#### **Graduate Students Currently Supervised**

2018-	Tomas Kay, supported by an Advanced ERC grant
2017-	Guillaume Lavanchy (co-supervised with Tanja Schwander), supported by an Advanced ERC grant
2017-	Eléonore Genzoni (co-supervised with Tanja Schwander), supported by an Advanced ERC grant
2016-	Sean McGregor, supported by UNIL

#### **Post-Doctorals Currently Supervised**

2018-	Miya Qiaowei Pan, supported by University of Lausanne
2018-	Joanito Liberti (co-supervised with Philip Engel), supported by a Marie-Curie grant
2018-	Quentin Heleu, supported by the Swiss NSF
2018-	Erik Thomas Frank, supported by University of Lausanne
2018-	Sean McKenzie, supported by the Swiss NSF and now Marie Curie grant
2017-	Hugo Darras, supported by an Advanced ERC grant and now Marie Curie grant
2015-	Cleo Bertelsmeier, supported by University of Lausanne
2014-	Katja Hoedjes, supported by an Advanced ERC grant and now Marie Curie grant
2013-	Tom Richardson, supported by a Marie-Curie grant and Swiss NSF
2010-	Nathalie Stroeymeyt, supported by an Advanced ERC grant

#### **Master Students Previously Supervised**

2016-2018	Tomas Kay. Currently PhD at University of Lausanne
2013-2015	Patrick Joye. Currently PhD Student, University of Lausanne
2012-2014	Bahram Kheradmand. Currently PhD Student, UC San Diego
2011-2012	Alexandra Von Siebenthal. Currently Head Event Manager, Swiss Integrative Center for Human Health, University of Fribourg
2009-2010	Susana Figueiredo Pinto. Currently teacher
2009-2010	Simon Gingins. Completed a PhD at the University of Neuchâtel. Currently Post-Doctoral at the Max Planck Institute for Ornithology, Konstanz
2008-2009	Gabriel Cisarovsky. Completed a PhD at ETHZ. Currently scientific collaboration, Federal Office of the Environment
2008-2009	Séverine Buechel. Completed a PhD at ETHZ. Currently Post-Doctoral at the University of Stockholm
2007-2008	Lucille Chapuis. Currently PhD Student, University of Western Australia
2006-2006	Danielle Mersch (during her studies at Ecole Normale). Completed a PhD at the University of Lausanne. Currently Post-Doctoral, Cambridge University
2005-2006	Dominique Vuille. Currently teacher
2005-2006	Jean-Yves Humbert. Completed a PhD at ETHZ. Now Post-Doctoral, University of Bern
2004-2005	Stephanie Dreier. Completed a PhD at the University of Copenhagen. Currently Post-Doctoral, Institute

of Zoology, London

- 2004-2005 Johannes Gräff. Completed a PhD at the University of Zurich. Currently Assistant Professor, EPFL
- 2003-2004 Julie Jaquéry. Completed a PhD at the University of Lausanne. Currently Maître de Conférence (Lecturer), University of Rennes
- 2003-2004 Céline Ohayon. Currently Scientific Researcher, HEP (Haute Ecole Pédagogique), Lausanne
- 2002-2003 Nadia Bruyndonckx. Completed a PhD at the University of Lausanne. Currently Executive Assistant, Save Our Seas Foundation
- 2001-2002 Valérie Vogel. Completed a PhD at the University of Lausanne and a postdoc at the CHUV. Currently teacher
- 2000-2001 Stéphanie Jemielity. Completed a PhD at the University of Lausanne. Currently Post-Doctoral, Children's Hospital, Boston
- 1999 Denis Fournier. Currently Lecturer at the University of Bruxelles
- 1998-2000 Hervé Rosset. Completed a PhD at the University of Lausanne. Currently teacher, collège Arnold Reymond
- 1995-1997 Christina Wai Ying Chang, Currently Senior technician, University of Constanz

### Graduate Students Previously Supervised

- 2012-2018 Yan Zheng
- 2012-2018 Raphael Braunschweig
- 2010-2016 Oksana Riba-Grognuz. Currently researcher at Philip Morris
- 2009-2013 Pawel Lichocki, co-direction with Prof. Dario Floreano. Currently Senior Software Engineer, Google
- 2008-2013 Thibault Lengronne, co-direction with Prof. Seirian Sumner. Currently researcher, University of Bristol
- 2007-2012 Danielle Mersch. Received the Henri-A. Guenin prize for the excellence of her PhD. Currently Post-Doctoral, University of Cambridge
- 2007-2012 Romain Libbrecht. Received a Faculty Prize for the excellence of his PhD, the Jasper Loftus-Hill Young Investigator from the American Society of Naturalists, and the young researcher award from the French section of the International Union for the Study of Social Insects. Currently Assistant Professor, University of Mainz
- 2007-2011 Stéphane Dorsaz, co-advised with Mehdi Tafti. Currently Post-Doctoral at CHUV (Hospital, Lausanne)
- 2006-2012 Mingkwan Nipitwattanaphon. Currently Lecturer, University of Bangkok
- 2006-2009 Sara Mitri, co-advised with Prof. Dario Floreano EPFL. Currently Assistant Professor, University of Lausanne
- 2005-2009 Yannick Wurm. Received a Faculty Prize for the excellence of his PhD. Currently Senior Lecturer, Queen Mary University of London
- 2004-2009 Danesh S. Tarapore, co-direction with Prof. Dario Floreano EPFL. Currently Assistant Professor, University of Southampton
- 2003-2007 Tanja Schwander. Received several prizes for her PhD, including the 2009 John Maynard Smith Prize by the European Society of Evolutionary Biology. Currently associate Professor, University of Lausanne
- 2003-2007 Markus Waibel, co-advised with Prof. Dario Floreano. Currently CEO of Verity Studios AG
- 2002-2008 Valérie Vogel. Currently teacher
- 2002-2008 Barbara Holzer. Currently Research Associate at Disentronic Medica Systems AG
- 2001-2006 Stéphanie Jemielity. Received a Faculty prize for the excellence of his PhD. Currently Scientist at CSL Behring
- 2001-2006 Rolf Kümmerli. Received a Faculty Prize for the excellence of his PhD. Currently Swiss NSF Associate Professor, University of Zurich
- 2000-2001 Magdalena Konior. Supervised during 1-year. Currently Adiunkt, Polish Academy of Sciences
- 1998-2003 Philipp Langer. Currently Research Adviser, State Secretariat for Education and Research (SER)
- 1997-2002 Cathy Liautard. Currently Ingénieur de Recherche, Institute of Evolutionary Sciences, University of Montpellier
- 1997-2002 Max Reuter. Received a Faculty Prize for the excellence of his PhD. Currently Reader, University College London
- 1997-2002 Drude Molbo. Currently staff member, Department of Social Medicine, Copenhagen University
- 1993-1998 Michael J. B. Krieger. Currently Senior Project Manager at PASS Technologies

1993-1997 Giorgina Bernasconi. Obtained a Full Professor position, University of Neuchâtel

### **Post-Doctorals Previously Supervised**

- 2017-2018 Arthur Bernard
- 2016-2017 Oksana Riba-Grognuz. Currently researcher at Philip Morris
- 2016-2017 Chelsea Weitekamp. Currently researcher at the US Environmental Protection Agency (EPA)
- 2015-2016 Romain Libbrecht. Currently Assistant Professor, University of Mainz
- 2014-2018 Jonathan Romiguier. Currently permanent Researcher, CNRS, University of Montpellier
- 2013-2015 Charles Mullan. Currently Post-Doctoral, University of Lausanne
- 2013-2016 Giovanni Iacca. In collaboration with Dario Floreano. Currently Assistant Professor at University of Trento
- 2013-2015 Paolucci Silvia. Currently Post-Doctoral, University of Lausanne
- 2013-2015 Eduardo Goncalves Fox. Currently Post-Doctoral Guangzhou University
- 2013-2014 Shigeto Dobata. Currently Assistant Professor, University of Kyoto
- 2012-2017 Alexandra Bezler. Currently Post-Doctoral, EPFL
- 2012-2014 Danielle Mersch. Currently Post-Doctoral, Weizmann Institute
- 2011-2017 Adria LeBoeuf, in collaboration with Richard Benton. Currently Post-Doctoral, Weizmann Institute
- 2011-2015 Eric Lucas. Currently Post-Doctoral, University of Liverpool
- 2011-2015 Brian Hollis, in collaboration with Tad Kawecki. Currently Lecturer, Imperial College
- 2011-2013 Akiko Koto. Currently Senior Researcher, University of Tsukuba
- 2011-2013 Eyal Privman. Currently Assistant Professor, University of Haifa
- 2010-2014 Colby Tanner. Currently Assistant Professor at Misericordia University
- 2010-2011 Julien Roux. Currently Post-Doctoral, University of Lausanne
- 2010-2011 Yannick Wurm. Currently Senior Lecturer, Queen Mary University of London
- 2009-2012 Philip Newey. Currently writer in Australia
- 2008-2008 Daniel J. C. Kronauer. Currently Associate Professor, Rockefeller University
- 2007-2012 Michiel B. Dijkstra. Currently Scientific Editor for *Frontiers*
- 2007-2012 Steffen Wischmann. Currently, scientific consultant at "VDI/VDE Innovation + Technik GmbH"
- 2007-2011 Miguel Corona. Currently Research Entomologist, USDA Beltsville
- 2007-2009 Dietrich Gotzek. Currently Lab manager Smithsonian Institution
- 2006-2010 Christophe Lucas. Currently CNRS Permanent Researcher, University of Tours
- 2006-2010 Morgan Percy. Currently Post-Doctoral, University of Bruxelles
- 2006-2009 Lino Ometto. Currently Research group leader, Research and Innovation Centre, Fondazione Edmund Mach, San Michele all'Adige (TN) Italy
- 2006-2008 Frederic Masclaux, co-direction with Philippe Reymond. Currently Post-Doctoral, University of Lausanne
- 2005-2009 Michael Nicolas. Currently Post-Doctoral, National Centre of Biotechnology, Madrid
- 2004-2005 Virginie Ravigné. Currently Permanent Researcher, CIRAD and INRA, University of Montpellier
- 2004-2005 Julien Varaldi. Currently Maître de Conférence (Lecturer), University of Lyon
- 2004-2005 Denis Fournier. Currently Lecturer, University of Bruxelles
- 2003-2010 John Wang. Currently Associate Professor, Academia Sinica, Taiwan
- 2003-2004 Paolo Uva. Currently Researcher, Center for Advanced Studies, Research and Development in Sardinia
- 2002-2006 H  l  ne Niculita. Currently tenured Researcher, CHUV (Hospital, Lausanne)
- 2002-2006 Rob Hammond. Currently Lecturer, University of Leicester
- 2002-2003 Max Reuter. Currently Reader, University College London
- 2001-2003 Andres Perez-Urbe. Currently Professor, HES Yverdon
- 2000-2004 Sara Cahan Helms. Currently Associate Professor, University of Vermont
- 2000-2002 Ken R. Helms. Currently Research Assistant Professor, University of Vermont

- 2000-2001 Michel Chapuisat. Currently Associate Professor, University of Lausanne
- 1999-2005 Joel D. Parker. Currently Associate Professor, SUNY Plattsburgh
- 1999-2000 Tatiana Giraud. Currently Research Director, CNRS, University of Paris-Sud and full Professor Ecole Polytechnique, Paris
- 1998-2001 Jes Soe Pedersen. Currently Associate Professor, University of Copenhagen
- 1997-1999 Else J. Fjerdingsstad. Currently Assistant Professor, Queens College, City University of New York
- 1996-1999 William D. Brown. Currently full Professor, SUNY Fredonia
- 1994-1995 Liselotte Sundström. Currently full Professor, University of Helsinki

**Manuscripts and Books Reviewed (>1100) for:**

*Academic Press*  
*Acta Ethologica*  
*Adaptive Behavior*  
*Ageing Research Reviews*  
*Aging Cell*  
*American Naturalist*  
*Animal Behaviour*  
*Animal Cognition*  
*Annales Zoologici Fennici*  
*Apidologie*  
*Applied and Environmental Microbiology*  
*Austral Ecology*  
*Behavioral and Brain Sciences*  
*Behavioral Ecology*  
*Behavioral Ecology and Sociobiology*  
*Behaviour*  
*Behavioural Processes*  
*Biochemical Systematics and Ecology*  
*Biological Conservation*  
*Biological Invasions*  
*Biological Reviews*  
*Biology Letters*  
*Biology Open*  
*BioScience*  
*Blackwell*  
*BMC Biology*  
*BMC Evolutionary Biology*  
*BMC Genomics*  
*Briefings in Functional Genomics*  
*Cambridge University Press*  
*Canadian Journal of Zoology*  
*Cell*  
*Cell Reports*  
*Conservation Biology*  
*Current Biology*  
*Diversity and Distribution*  
*Ecography*  
*Ecological Entomology*  
*Ecological Research*  
*Ecology*  
*Ecology, Ethology & Evolution*  
*Ecology Letters*  
*eLife*  
*Epigenomics*  
*Elsevier*  
*EMBO Reports*  
*Ethology*  
*European Journal of Entomology*  
*Evolution*  
*Evolution and Development*  
*Evolutionary Applications*  
*Evolutionary Ecology Research*  
*Experientia*  
*Experimental and Applied Acarology*  
*Experimental Gerontology*  
*FASEB Journal*  
*Functional Ecology*  
*Genetica*  
*Genetics, Selection Evolution*  
*Genome Biology*  
*Genome Research*  
*Harvard University Press*  
*Insect Molecular Biology*  
*Insectes Sociaux*  
*International Journal of Molecular Sciences*  
*Journal of Applied Ecology*  
*Journal of Chemical Ecology*  
*Journal of Evolutionary Biology*  
*Journal of Experimental Biology*  
*Journal of Insect Behavior*  
*Journal of Insect Physiology*  
*Journal of Theoretical Biology*  
*Journal of Zoology*  
*Kluwer Academic Press*  
*Mechanisms of Ageing and Development*  
*Molecular Biology and Evolution*  
*Molecular Ecology*  
*Myrmecological News*  
*Nature*  
*Nature Communication*  
*Naturwissenschaften*  
*New Zealand Journal of Ecology*  
*Oecologia*  
*Oikos*  
*Oxford University Press, UK*  
*Oxford University Press, USA*  
*PlosComputationalBiology*  
*PlosBiology*  
*Plos Genetics*  
*PlosOne*  
*PlosPathogen*  
*Princeton University Press*  
*Philosophical Transactions of the Royal Society, London*  
*Proceedings of the National Academy of Sciences, USA*  
*Proceedings of the Royal Society, London, B*  
*Physiological Entomology*  
*Schweizerische Entomologische Gesellschaft*  
*Science*  
*Scientific Reports*  
*Springer Verlag*  
*The ISME Journal*  
*Theoretical Population Biology*  
*Trends in Ecology and Evolution*  
*Trends in Genetics*

