

# C U R R I C U L U M V I T A E



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## Positions Helds

2007	<b>Research Assistant (Oberassistent)</b> Department of Environmental Sciences, Section of Conservation Biology, University of Basel, CH
2005 - 2006	<b>Postdoctoral Research Fellow:</b> "Genetic structure in reptile populations" SNF Fellowship for Prospective Researchers School of Biological Sciences, University of Wales, UK
2000 - 2004	<b>Assistant</b> Ecology Institute, University of Lausanne, CH
1996 - 2005	<b>Collaborator</b> Musée du Léman, Nyon, CH

## Education

2000 - 2005	<b>PhD in Zoology</b> "Phylogéographie des principales vipères européennes ( <i>Vipera ammodytes</i> , <i>V. aspis</i> et <i>V. berus</i> ), structuration génétique et multipaternité chez <i>Vipera berus</i> " Laboratory for Conservation Biology, Ecology Institute, University of Lausanne, CH
1998	<b>MSc in Zoology</b> Department of Zoology and Animal Ecology, University of Lausanne, CH
1996	<b>BSc in Zoology</b> Department of Zoology and Animal Ecology, University of Lausanne, CH

## Technical and Practical Skills

Molecular techniques	Very good knowledge of genetic analysis methods used for <b>phylogeny, phylogeography</b> and population differentiation, such as sequencing and genotyping
Computer tools	Very good knowledge of standard softwares (Microsoft Office, iWork), graphic and web design softwares (Adobe Creative Suite) and database gestion (FileMaker Pro®, PHP and MySQL) Good knowledge of statistical methods used for morphological analyses
Field works	Very good knowledge of the <b>European herpetological and ichthyological fauna</b> , as well as good knowledge of other European vertebrates
Museum	Ability to popularize scientific research Help in exhibition set up (Musée du Léman: "au fil de l'eau" and "Envahisseurs")
General	Polyvalent, independant, motivated, well-organized, flexible

## Personal information

Language	<b>French:</b> mother tongue <b>English:</b> fluent (writing and speaking) <b>German:</b> good knowledge (speaking)
Scientific Societies	Societas Europaea Herpetologica (SEH): <b>co-editor of Amphibia-Reptilia</b> Deutsche Gesellschaft für Herpetologie und Terrarienkunde e.V. (DGHT) Société Herpétologique de France (SHF) British Herpetological Society (BHS) American Genetic Association (AGA) Swiss Systematics Society (SSS)
Hobbies	Fish keeping, Photography, Informatics

## Supervision of students and undergraduates

2010-2014	<b>Mattieu Raemy</b> , <i>PhD student</i> , supported by the University of Basel, CH
2010-2011	<b>Valerie Zwahlen</b> , <i>MSc student</i> , supported by the University of Basel, CH
2010-2011	<b>Laura Kaiser</b> , <i>MSc student</i> , supported by the University of Basel, CH
2010-2011	<b>Kristina Giano</b> , <i>MSc student</i> , supported by the University of Basel, CH
2009-2011	<b>Céline Geiser</b> , <i>MSc student</i> , supported by the University of Geneva and will be completed at the University of Basel, CH
2009-2010	<b>Jean-Pierre Vacher</b> , <i>MSc student</i> , supported by the Muséum National d'Histoire Naturelle, Paris, FR and completed at the University of Basel, CH
2009-2013	<b>Silvia Geser</b> , <i>PhD student</i> , supported by the University of Basel, CH
2008-2009	<b>Matthieu Raemy</b> , <i>MSc student</i> , supported by the University of Neuchâtel, CH and completed at the University of Basel, CH
2008	<b>Amandine Plaisance</b> , <i>MSc student</i> , supported by the University of St-Etienne, FR and completed at the University of Basel, CH
2007-2011	<b>Anne-Laure Ferchaud</b> , <i>PhD student</i> , supported by the EPHE /CNRS /University of Montpellier, FR member of the Thesis Committee
2003-2004	<b>Jonas Cosendai</b> , <i>MSc student</i> , supported by the University of Lausanne, CH
2003	<b>Ivan Saso &amp; Matia Rossi</b> , <i>BSc students</i> , supported by the University of Lausanne, CH
2003	<b>Cécile Erny</b> , <i>DESS student</i> , supported by the Université de Paris 6, FR and completed at the University of Lausanne, CH
2002-2003	<b>Sylvain Dubey</b> , <i>MSc student</i> , supported by the University of Lausanne, CH
2001-2002	<b>Alberto Conelli</b> , <i>MSc student</i> , supported by the University of Lausanne, CH

## Teaching experience

2008-	<b>Lecture:</b> "Phylogeography of European Reptiles" Institute of Evolutionary Biology and Environmental Studies, University of Zurich, CH
2007-	<b>Field courses and Lectures:</b> "Conservation Genetics" and "Population Viability Analysis (PVA)" Department of Environmental Sciences, Section of Conservation Biology, University of Basel, CH
2000-2004	<b>Field, laboratory courses and exercises</b> in Zoology and Ecology (undergraduates) Ecology Institute, University of Lausanne, CH
2004	<b>Lecture:</b> "Recent approaches in the study and conservation of wildlife" Swiss Society of Wildlife Biology (SSBF) Course, University of Lausanne, CH
2003	<b>Lecture:</b> "Conservation genetics" Postgrade (DESS) Biodiversity management, University of Lausanne, CH

## Publications (peer-reviewed)

2011	<b>Ferchaud A.-L., Lyet A., Cheylan M., Arnal V., Baron J.-P., Mongelard C. &amp; Ursenbacher S.</b> (2011) High genetic differentiation among French populations of the Orsini's meadow viper ( <i>Vipera ursinii ursinii</i> ) based on mitochondrial and microsatellite data: Implications for conservation management, <i>Journal of Heredity</i> <b>102</b> : 67-78
2010	<b>Meister B., Hofer U., Ursenbacher S. &amp; Baur B.</b> (2010) Spatial genetic analysis of the endangered grass snake ( <i>Natrix natrix</i> ) in an intensively used agricultural landscape, <i>Biological Journal of the Linnean Society</i> <b>101</b> : 51-58 <b>Ursenbacher S., Alvarez C., Armbruster G.F.J. &amp; Baur B.</b> (2010) High population differentiation in the rock-dwelling land snail ( <i>Trochulus caelatus</i> ) endemic to the Swiss Jura mountains. <i>Conservation Genetics</i> <b>11</b> : 1265-1271
2009	<b>Dubey S., Ursenbacher S., Pellet J. &amp; Fumagalli L.</b> (2009) Genetic differentiation in two European tree frog ( <i>Hyla arborea</i> ) metapopulations in contrasted landscapes of Western Switzerland. <i>Amphibia-Reptilia</i> <b>30</b> : 127-133 <b>Metzger C., Ursenbacher S. &amp; Christe P.</b> (2009) Testing the Competitive Exclusion Principle using various niche parameters in a native ( <i>Natrix maura</i> ) and an introduced ( <i>N. tessellata</i> ) colubrid, <i>Amphibia-Reptilia</i> <b>4</b> : 523-531 <b>Ursenbacher S., Erny C. &amp; Fumagalli L.</b> (2009) Male reproductive success and multiple paternity in wild, low density populations of the adder ( <i>Vipera berus</i> ). <i>Journal of Heredity</i> <b>100</b> : 365-370

## Publications (peer-reviewed)

- 2009 **Ursenbacher S., Monney J.-C. & Fumagalli L.** (2009) Limited genetic diversity and high differentiation among the remnant adder (*Vipera berus*) populations in the Swiss and French Jura Mountains. *Conservation Genetics* **10**: 303-315
- 2008 **Golay P., Monney J.-C., Conelli A., Durand T., Thiery G., Zuffi M.A.L. & Ursenbacher S.** (2008) Systematics of the Swiss asp viper: some implications for the European *Vipera aspis* (Linnaeus, 1758) complex (Serpentes: Viperidae) — A tribute to Eugen Kramer. *Amphibia-Reptilia* **29**: 71-83
- Ursenbacher S., Schweiger S., Tomovic L., Crnobrnja-Isailovic J., Fumagalli L. & Mayer W.** (2008) Molecular phylogeography of the nose-horned viper (*Vipera ammodytes*, Linnaeus (1758)): Evidence for high genetic diversity and multiple refugia in the Balkan peninsula. *Molecular Phylogenetics and Evolution* **46**: 1116-1128
- 2006 **Dubey S., Ursenbacher S. & Fumagalli L.** (2006) Origine des populations de rainette verte (*Hyla ssp.*) de l'ouest de la Suisse. *Revue Suisse de Zoologie* **113**: 879-887
- Ursenbacher S., Carlsson M., Helfer V., Tegelström H. & Fumagalli L.** (2006) Phylogeography and Pleistocene refugia of the adder (*Vipera berus*) as inferred from mitochondrial DNA sequence data. *Molecular Ecology* **15**: 3425-3437
- Ursenbacher S., Conelli A., Golay P., Monney J.-C., Zuffi M.A.L., Thierry G., Durand T. & Fumagalli L.** (2006) Phylogeography of the asp viper (*Vipera aspis*) inferred from mitochondrial DNA sequence data: Evidence for multiple Mediterranean refugial areas. *Molecular Phylogenetics and Evolution* **38**: 546-552
- 2003 **Ursenbacher S. & Monney J.-C.** (2003) Résultats de 5 années de suivi d'une population de Vipères péliades (*Vipera berus*) dans le Jura suisse: estimation des effectifs et discussion des méthodes d'estimation, *Bulletin de la Société Herpétologique de France* **107**: 15-25

## Book contributions

- 2011 **Mazza G., Monney J.-C. & Ursenbacher S.** (accepted) Structural habitat partitioning of *Natrix tessellata* and *Natrix maura* at Lake Geneva, Switzerland, in: *Mertenisella Band 18: Die Wurfelnatter* (eds. Mebert K. & Joger U.), Mertensiella, Reinbach, DE
- Metzger C., Christe P. & Ursenbacher S.** (accepted) Diet variability of two convergent natricine colubrids in an invasive-native interaction, in: *Mertenisella Band 18: Die Wurfelnatter* (eds. Mebert K. & Joger U.), Mertensiella, Reinbach, DE
- 2010 **Ursenbacher S. & Naulleau G.** (2010) La vipère péliade, in: *Les reptiles de France, Belgique, Luxembourg et Suisse* (eds. Vacher J.-P. & Geniez M.). Biotope, Mèze (Collection Parthénope), Muséum national d'Histoire naturelle, Paris, FR. pp 496-503
- Ursenbacher S.** (2010) La couleuvre tessellée, in: *Les reptiles de France, Belgique, Luxembourg et Suisse* (eds. Vacher J.-P. & Geniez M.). Biotope, Mèze (Collection Parthénope), Muséum national d'Histoire naturelle, Paris, FR. pp 471-475
- Vacher J.-P., Bonnet X., Cheylan M., Grillet P., Grossi J.-L., Lourdais O., Monney J.-C., Percsy C., Proess R. & Ursenbacher S.** (2010) Menaces et Conservation, in: *Les reptiles de France, Belgique, Luxembourg et Suisse* (eds. Vacher J.-P. & Geniez M.). Biotope, Mèze (Collection Parthénope), Muséum national d'Histoire naturelle, Paris, FR. pp 162-195
- 2009 **Ursenbacher S.** (2009) Deux formes de la vipère péliade en Suisse, in: *Les Amphibiens et Reptiles de Suisse* (eds. Meyer A., Zumbach S., Schmidt B. & Monney J.-C.), Haupt, Bern, CH. pp 273-274
- 2005 **Ursenbacher S., Sasu I., Rossi M. & Monney J.-C.** (2005) Are there morphological differences between two genetically differentiated clades in the adder *Vipera berus berus*?, in: *Herpetologia Petropolitana, Proceedings of the 12th Ordinary Meeting of Societas Europaea Herpetologica (SEH)* (eds. Ananjeva N. & Tsinenko O.), Saint-Petersburg, RU, pp 96-98
- 2003 **Lorvelec O., Frétey T. & Ursenbacher S.** (2003) La Couleuvre tessellée : *Natrix tessellata* (Laurenti, 1768), en Suisse, in: *Evolution holocène de la faune de Vertébrés de France : invasions et disparitions* (eds. Pascal M., Lorvelec O., Vigne J.-D., Keith P. & Clergeau P., coordonnateurs), INRA, CNRS, MNHN. Rapport au Ministère de l'Écologie et du Développement Durable (Direction de la Nature et des Paysages), Paris, FR. pp 335-336
- Lorvelec O., Ursenbacher S. & Frétey T.** (2003) Le Triton crêté italien : *Triturus carnifex* (Laurenti, 1768), in: *Evolution holocène de la faune de Vertébrés de France : invasions et disparitions* (eds. Pascal M., Lorvelec O., Vigne J.-D., Keith P. & Clergeau P., coordonnateurs), INRA, CNRS, MNHN. Rapport au Ministère de l'Écologie et du Développement Durable (Direction de la Nature et des Paysages), Paris, FR. pp 144-145
- 1999 **Koller N. & Ursenbacher S.** (1999) Estimation de l'effectif de Couleuvres vipérines (*Natrix maura*) et de Couleuvres tessellées (*N. tessellata*) dans le Lavaux, in: *Annales du Colloque "Découvrir le Léman"* (eds. Bertola C., Goumand C., Rubin J.-F.), Musée du Léman & Editions Slatkine, Genève, CH. pp 313-322

## Collaborations

**Golay P.** (Elapsoïdea, Geneva, CH), **Monney J.-C.** (karch, Neuchâtel, CH), **Thierry G.** (Chambéry, FR), **Durand T.** (La Tuille, FR), **Mebert K.** (Merenschwand, CH), **Dubey S.** (University of Sydney, AU):

- morphology, ecology, phylogeography and biogeography of the asp viper (*Vipera aspis*)
- gene-flow and morphological adaptation in Alpine populations of *V. aspis*

**Schweiger S.** (Naturhistorisches Museum Wien, AT), **Tomovic L.** (Belgrad University, RS):

- systematic, morphology and phylogeography of the nose-horned viper (*Vipera ammodytes*).

**Fumagalli L. & Salamin N.** (University of Lausanne, CH), **Pook C. E. & Wüster W.** (University of Wales - Bangor, UK):

- biogeography of the European Vipers (genus *Vipera* s. str.)

**Monney J.-C.** (karch, Neuchâtel, CH) & **Hofer U.** (Naturhistorisches Museum, Bern, CH):

- monitoring of the introduced population of Dice snake (*Natrix tessellata*) in the Lake of Geneva

**Ferchaud A.-L., Mongelard C., Cheylan M.** (EPHE, CNRS/University of Montpellier, FR), **Baron J.-P.** (Chaille les Marais, FR), **Tully T.** (Ecole Normale Supérieure/CNRS, Paris, FR), **Le Gaillard J.-F., Ferrière R.** (CNRS, Paris, FR):

- ecology and inbreeding in French remnant populations of meadow vipers (*Vipera u. ursinii*)

**Ferchaud A.-L., Mongelard C., Cheylan M.** (EPHE, CNRS/University of Montpellier, FR), **Luiselli L.**

(University of Roma, IT), **Jelic D.** (State Institute for Nature Protection, Grubisno Polje, HR), **Halpern B.** (MME Birdlige Hungary, Budapest, HU), **Kotenko T.** (Schmalhausen Institute of Zoology, Kyiv, UA), **Tomovic L., Crnobrnja-Isailovic J.** (Biological Research Institute Sinisa Stankovic, Belgrade, RS), **Ghira I.** (University Babes-Bolyai, RO), **Ioannidis Y.** (The Goulandris Natural History Museum, Kifissia, GR):

- phylogeography and systematics of the steppe meadow viper (*Vipera ursinii* complex)

**Raemy M.** (University of Basel, CH), **Monney J.-C.** (karch, Neuchâtel, CH), **Cordillot F.** (BAFU, Bern, CH),

**Dändliker G.** (Service de la Faune du canton de Genève, CH), **Ducotterd J.-M.** (PRT, Chavornay, CH),

**Gander A.** (GEG, Cheseaux-Noréaz, CH), **Nembrini M.** (Oikos 2000, Monte Carasso, CH):

- reintroduction of the European Pond Turtle (*Emys orbicularis*) in Switzerland

**Vanappelghem C.** (Conservatoire des Sites Naturels du Nord et du Pas-de-Calais, Lilliers, FR), **Pratte O.**

(Groupe Ornithologique et Naturaliste du Nord - Pas-de-Calais, Lille, FR), **Hodges R.J.** (KRAG, Maidestone, UK), **Brady L.** (University of Kent, UK):

- INTERREG project: conservation of adder populations in the northern France and southern UK

**Guillon M., Lourdais O.** (CNRS, Chizé, FR):

- genetics of French adder populations and post-glacial recolonisation scenari

**Vacher J.-P.** (BUFO, Strasbourg, FR), **Graitson E.** (University of Liège, BE):

- genetic structure in European smooth snakes populations

**Zschokke S., Baur B.** (University of Basel, CH):

- population genetic of the Indian Rhinoceros (*Rhinoceros unicornis*)

**Geiser C., Lehmann A.** (University of Geneva, CH):

- microsatellite development and population genetics of the slow worms (*Anguis fragilis*) in western Switzerland

**Menegon M.** (Museo Tridentino di Scienze Naturali, Trento, IT), **Loader S.** (University of Basel CH):

- phylogeography and systematics of three Tanzanian snakes: *Atheris spp.*, *Crotaphytys spp.* and *Dipsadoboa spp.*

**Rajabizadeh M.** (Institute of Environmental Science, Kerman, IR):

- sexual dimorphism in *Macrovipera latiffi*

**Vacher J.-P.** (BUFO, Strasbourg, FR), **Gerard C.** (University of Strasbourg, FR):

- genetic structure in Alsacian populations of the European Green Toad (*Pseudepidalea viridis*)