

Prof. Dr. Nadir Alvarez, born 28 May 1977 in Lausanne, Swiss citizenship, married, 2 children



Current position

Assistant Professor, Department of Ecology and Evolution, University of Lausanne (Switzerland).

Education and Employment

- 2013- Assistant Professor (SNSF Professorship, Swiss National Science Foundation), University of Lausanne.
- 2010-2013 Research Associate (*Ambizione* fellowship; Swiss National Science Foundation), University of Lausanne.
- 2006- 2010 Junior Lecturer position, Institute of Biology, University of Neuchâtel.
- 2005-2006 Postdoc, Institute of Botany, University of Neuchâtel.
- 2001- 2004 **PhD**, University of Montpellier, France (French Ministry of Higher Education and Research).
- 2001 Masters' grade in Evolutionary Biology and Ecology, University of Montpellier, France.

Funding ID

Period	Duration	Funding agency	Grant number	Amount
2016-2019	3 years	Swiss National Science Foundation	31003A_163334	CHF 351'780
<i>Ecology and evolution of olfactory signaling in the deceptive pollination of Arum maculatum: mimicry and local adaptation</i>				
2016	1 year	Herbette Foundation, University of Lausanne	2016-1-C-01	CHF 6'200
<i>Current and past genetic dynamics of the butterfly Melitaea aurelia, an endangered iconic species</i>				
2014-2015	1 year	Rectors' conference of Swiss Universities	SCIEX 14.002	CHF 87'567
<i>Genetic consequences of the ecological island syndrome in myrmecophilic lycaenid butterflies</i>				
2013-2015	2 years	University of Lausanne	N/A	CHF 100'000
<i>Start-up grant</i>				
2013-2017	4 years	Swiss National Science Foundation	SNF Professorship PPO0P3_144870	CHF 1'509'847
<i>Consequences of species range contraction on the genetic diversity of cold-adapted species</i>				
2011-2014	3 years	Polish-Swiss Research Programme	PSB-161/2010	CHF 106'058
<i>The fate of ecological interactions in a changing climate: Using next-generation sequencing technologies at the genome level to unravel adaptive & historical processes in a community of interrelated arctic-alpine organisms</i>				
2011-2012	1½ years	Rectors' conference of Swiss Universities	SCIEX 10.116	CHF 99'900
<i>Comparative Evolutionary Ecology of an Emblematic European Plant-Insect Mutualism</i>				
2010-2013	3 years	Swiss National Science Foundation	Ambizione PZ00P3-126624	CHF 580'727
<i>Coalescence and adaptation processes in plant-insect interactions: Bridging the gap between genomics and phylogeography</i>				
2010	N/A	Foundation of the 450 th , University of Lausanne	N/A	CHF 2'900
<i>Quaternary evolutionary history of Ephemeroptera crickets</i>				
2007-2010	3 years	Swiss National Science Foundation	3100A0-116778	CHF 227'000
<i>Phylogeography of mutualistic vs. antagonistic plant-insect interactions</i>				
2004	N/A	French Ministry of Research	N/A	EUR 5200 (CHF 7200)
<i>Grant for International Mobility</i>				
2003	N/A	Rectors' Conference of Swiss Universities	N/A	CHF 10'000
<i>Mobility Grant</i>				
2002	N/A	Swiss Academy of Sciences	N/A	CHF 4'200
<i>Fieldwork Grant</i>				
<i>Total</i>				CHF 3'093'379

Collaborative projects

- 2016-2021: Ecosystem change and species persistence over time: a genome-based approach (PI: Inger Alsos, Tromsø University Museum, Norway). Norwegian Funding Agency.
- 2015-2018: Dynamics of Mediterranean butterflies in a phylogeographic framework: mapping genetic diversity across time and space (PI: Roger Vila, CSIC, Barcelona, Spain). Spanish Ministry of Science (Plan Nacional I+D "Excelencia"), project n°CGL2013-48277-P.
- 2014-2017: Geography, genomics and evolutionary success in an insular environment (PI: Brent Emerson, CSIC, Tenerife, Spain). Spanish Ministry of Science (Plan Nacional I+D "Excelencia"), project n° CGL2013-42589-P.
- 2014-2017: Origin of steppe flora and fauna in inner-Alpine dry valleys (PI: Peter Schönswetter, University of Innsbruck, Austria). Austrian Science Fund (FWF), project n°P25955.
- 2004-2006: IntraBioDiv: Tracking surrogates for intraspecific biodiversity: towards efficient selection strategies for the conservation of natural genetic resources using comparative mapping modeling approaches (PI: Pierre Taberlet, CNRS, Grenoble, France). European Union's 6th Framework Programme on Sustainable Development & Global Change and Ecosystems, project n° GOCE-CT-2003-505376.
- 2004-2006: Molecular diversity and evolutionary history of a bruchid species, the bean weevil *Acanthoscelides obtectus* (PI: Luiz Orlando de Oliveira, Federal University of Viçosa, Brazil). National Brazilian Council of Technological and Scientific Development.
- 2003-2005: Previous to participative management of agrobiodiversity: integrative study of the ecological and evolutionary consequences of the local knowledge and the farmers practices among domesticated plants (PI: Doyle McKey, University of Montpellier II, France). French Institute for Biodiversity.
- 2002-2004: Comparative biodiversity histories in three agroecosystems of North-Cameroon: ecological & anthropological approaches (PI: Eric Garine, University of Paris X, France). French Institute for Biodiversity.

Publication record

I have authored 90 publications: 81 articles (among which **16 as first** and **35 as senior** author) in **45 ISI journals**, 4 meeting proceedings and **5 book chapters**. My articles have been cited **1702 times** and I have an **H value of 23** and an **i10 value of 45** as of September 30, 2016, according to Google Scholar (1153 cites and H=19 according to ISI Web of Knowledge). I have given presentations in **36 conferences** or doctoral schools, in 13 countries (Austria, France, Germany, Italy, Mexico, Poland, Romania, Slovakia, Slovenia, Spain, Switzerland, UK, USA).

Students supervision

So far, I supervised **6 PhD** (Switzerland, Senegal) and **33 Masters' students** (Switzerland, France).

Ability to lead a team and inspire young researchers

I have always motivated **my students to exploit and publish their results**, as well as to **apply for research grants**. **All five PhD students** I supervised so far and **who already defended their PhD** have subsequently been hired as **postdocs researchers**. Two received a Prospective Young Researcher Fellowship (SNSF) and one received a FP7 Marie-Curie fellowship (IEF). One of them has obtained a permanent position (first at Kew Botanical Gardens and then at the National History Museum, London). One of my postdocs obtained an Ambizione fellowship. Ten of my masters' students have subsequently enrolled in a doctoral program.

Postdocs: Sereina Rutschmann (2016-2017, 4 months), **Tomasz Suchan** (2016, 6 months), **Darina Koubinova** (2014-2016, 13 months), **Jairo Patiño** (2015, 3 months), **Nils Arrigo** (2013-2014, 12 months), **Anahí Espindola** (2011-2012, 12 months)

Scientific collaborators: Mark Szenteczki (2016-2017, 12 months), **Ariane Saugy** (2016, 9 months), **David Roy** (2016, 6 months), **Rémi Genevest** (2014-2016, 24 months), **Flavien Russier** (2015, 3 months), **Morgan Gueuning** (2015, 3 months), **Camille Pitteloud** (2014-2015, 8 months)

Visiting scientists: Yurena Arjona (CSIC, Spain, 2015, 3 months), Mario Mairal (CSIC, Spain, 2014, 3 months), Alicia Mastretta-Yanes (University of East Anglia, Norwich, UK, 2013, 3 months), Malou Delplancke (University of Montpellier II, France, 2011, 2 months)

PhD students

Mila Pajkovic: ongoing supervision (University of Lausanne) on the decadal consequences of climate and land use change on the genetic variation dynamics in insects (2014-).

Tomasz Suchan: Tracking the ghost of coevolution in specific plant-insect interactions: the case of the pollination system between the globeflower *Trollius europaeus* and seven European *Chiastocheta* flies. University of Lausanne, June 26th 2015 (2011-2015).

Khadim Kébé: Genetic diversity, evolutionary history and bio-ecology of *Callosobruchus maculatus* F. (Coleoptera, Bruchinae), a pest of cowpea seeds. Cheikh Anta Diop University in Dakar, Senegal, January 29th 2013 (2009-2013).

Anahí Espíndola: Inferring reciprocal evolutionary histories in associated species of plants and insects in two European pollination systems. University of Neuchâtel, November 17th 2010 (2007-2010).

Yann Triponez: Multi-species phylogeographic investigations in closely-related taxa and mutualistic plant-insect systems. University of Neuchâtel, May 20th 2010 (2006-2010).

Sven Buerki: Worldwide biogeography and systematics of Sapindaceae: a molecular and taxonomic survey combining large data sets and novel methodological approaches. University of Neuchâtel, June 12th 2009 (2005-2009).

Masters students [YEAR OF DEFENSE](ongoing supervision in italics)

Rachel Barman* [2012], Mélanie Beauverd* [2013], Briséis Castella*[2011], Camille-Sophie Cozzarolo* [2014], Pauline de Coulon* [2014], Fabien Delapierre* [2014], Morgan Gueuning [2015], Samuel Jordan* [2015], Marylaure de la Harpe [2013], Mila Pajkovic* [2012], Patrice Pfäuti [2011], Camille Pitteloud [2014], David Roy* [2015], Ana Salgado [2015], Romain Sauthier* [2014], Sarah Schmid [2016], Marc Szenteczki, Mathieu Seppey [2016], Jean-Luc Sequeira [2015], Naiké Trim* [2013], Sacha Zahnd* [2013] (**University of Lausanne**); Robin Arnoux [2009], Lucas Bassin [2008], David Berthold [2009], Julien Burnier [2006], Makiala Kisanga [2008], Aurélien Labhardt [2007], Alexis Reding [2011], Natacha Revel [2008], Yann Triponez [2006] (**University of Neuchâtel**); Lény Mercier [2003], Gwendal Restoux* [2004] (**University Montpellier II, France**), Giti Ghazi Soltani [2014] (**University Paris VI**). * first-step research

Teaching experience

I taught 50 hours per year on average over a period of 6 years, from 2005 to 2010, at the University of Neuchâtel at both Bachelor and Masters levels. Lectures were in the following disciplines (with average number of hours per year): *Biogeography & Species-Environment Modelling* (6), *Classics in Biology* (8), *Evolutionary & Behavioral Ecology* (16), *Evolutionary Genetics & Phylogeny* (14), *Insects Biology* (14), *Insects Ecology* (14), *Plant-Insect Interactions* (28), *Systematics & Phylogenetic methods* (6). Since 2013 I have been teaching *Entomology* (28) at the Bachelor level at the University of Lausanne. I am also co-tutoring two topic groups for PhD students from the University of Lausanne: *Phylogenetics, Phylogeography & Comparative Methods* (co-tutor: Nicolas Salamin; since 2011), *Niche and Distribution* (co-tutor: Antoine Guisan; since 2014). In 2016, I have been teaching *Evolutionary Ecology* at the University of Neuchâtel at the Master's level.

PhD thesis committees

I have participated in **16 intermediary committees** and **18 Defense committees** (Universities of Lausanne and Neuchâtel, Switzerland; McGill University, Canada; Universities Montpellier II and Toulouse, France; Tromsø University Museum, Norway; Universities of La Coruña and Zaragoza, Spain; Cheikh Anta Diop University in Dakar, Senegal).

INTERMEDIATE COMMITTEES (16): Laura Clément (University of Lausanne, 2016), Mila Pajkovic (University of Lausanne, 2016), Oriane Loiseau (University of Lausanne, 2016), Kana Yamada (University of Lausanne,

2015), Guangpeng Ren (University of Lausanne, 2014), Jessica Delhaye (University of Lausanne, 2013), Martha Serrano (University of Lausanne, 2013), Charlotte Ndiribe (University of Lausanne, 2011), Loïc Pellissier (University of Lausanne, 2011), Malou Delplancke (University Montpellier II, 2010), Anahi Espindola (University of Neuchâtel, 2009), Sarah Kenyon (University of Neuchâtel, 2008), Violaine Jourdie (University of Neuchâtel, 2007), Noppol Kobmoo (University Montpellier II, 2007), Julien Renoult (University Montpellier II, 2007), Céline Born (University Montpellier II, 2006).

DEFENSE COMMITTEES (18): Jessica Delhaye (University of Lausanne, June 28, 2016), Dilli Rijal (Tromsø University Museum, Norway, January 15, 2016), Tomasz Suchan (University of Lausanne, June 26, 2015), Alberto Prado Farias (McGill University, Canada, October 9, 2014), Fardo Witsenburg (University of Lausanne, March 7, 2014), Neus Mari Mena (University of A Coruña, Spain, October 11, 2013), Khadim Kébé (Cheikh Anta Diop University in Dakar, Senegal, January 30, 2013), Loïc Pellissier (University of Lausanne, September 25m 2012), Aurélie Khimoun (University of Toulouse, June 29, 2012), Malou Delplancke (University Montpellier II, December 15, 2011), Anahí Espíndola (University of Neuchâtel, November 17, 2010), Yann Triponez (University of Neuchâtel, May 20, 2010), Noppol Kobmoo (University Montpellier II, December 11, 2009), Julien Renoult (University Montpellier II, November 24, 2009), Sven Buerki (University of Neuchâtel, June 12, 2009), Christelle Péré (University of Neuchâtel, February 13, 2009), Michel Omer Laivao (University of Neuchâtel, October 24, 2008), Violaine Jourdie (University of Neuchâtel, September 24, 2008).

Workshops

Aguilar M, **Alvarez N**, Dubey S, Fontaneto D, Heger T, Hortal J, Lara E, Mann D. Phylogeography, Macroecology and Biogeography. CUSO doctoral school. University of Neuchâtel, Switzerland. 9-11 June 2015.

External referee

Journals

I have reviewed more than 200 manuscripts for the following journals: Acta Oecologica, Arthropod-Plant Interactions, Biological Journal of the Linnean Society, Botanical Journal of the Linnean Society, BMC Ecology, BMC Evolutionary Biology, Candollea, Ecology Letters, Entomologia Experimentalis et Applicata, European Journal of Entomology, Folia Geobotanica, Heredity, Journal of Biogeography, Journal of Evolutionary Biology, Molecular Ecology, Molecular Ecology Resources, Molecular Phylogenetics and Evolution, New Phytologist, Oecologia, Plant Systematics and Evolution, PLoS one, Proceedings of the Royal Society B, Systematics and Biodiversity.

Research grant funding agencies

French Agency for Research (ANR): “Programme blanc” (2009), “The 6th extinction” (2009), “Program EQUIPEX” (2010); **Swiss National Science Foundation (SNSF):** Stand-alone projects, Division III (2011); **Austrian Science Fund (FWF),** Stand-alone projects (2011, 2012, 2013); **Spanish National Agency, Science & Innovation Ministry,** “L’OREAL-UNESCO grants” (2010); **Polish National Science Centre—Narodowe Centrum Nauki,** “Opus 8 grants” (2015); **Czech Science Foundation,** “Open projects in agricultural and biological/environmental sciences” (2015); **Belgian National Fund for Scientific Research (FNRS),** “Research credit” (2015); **UK’s Natural Environment Research Council (NERC)** “Standard grants” (2015);

Evaluation of external research groups

Research Institute on Insect Biology (IRBI) – Tours, France, AERES committee (2011), Forest Zoology Unit (URZF) – Orleans, France, AERES committee (2011), Biology and Genetics of Plant-Parasite interactions (BGPI) – Montpellier, France, AERES committee (2014).

Mobility Programs

Synthesys—Synthesis of Systematic Resources—user selection panel (MCNM, Spain) (2015)

Other activities**Journal edition**

2012- Academic Editor, PLoS one.

Organization committee of symposia

2015 XVth Meeting of the European Society for Evolutionary Biology (ESEB). August 10-14, 2015. Lausanne, Switzerland.

2013 Biogeography of the Carpathian. Evolution of Biodiversity in a Spatiotemporal Context. The First Interdisciplinary Symposium. September 26–28, 2013. Kraków, Poland.

Masters coordination

2007-2009 Masters in Physiology and Ecology of Plants (University of Neuchâtel).

2005-2007 Masters in Evolutionary Ecology and Ethology (University of Neuchâtel).

Communication activities

2007 program “Impatience” (RSR La Première): research on alpine mutualisms.

2007-2008 Monthly radio chronicles on plant insect interactions (RSR La Première, Switzerland).

2008 Design of an exhibition on plant-insect interactions (Botanical Garden, Neuchâtel).

Civilian Service

2006-2010 195 days of civilian service (exhibitions, algorithm development)

Reports in Newspapers

C. Khattar (2013) Uniscope (newsletter of the University of Lausanne), June 26th 2013 (n°585)

O. Schipper (2009) Horizons (newsletter of the Swiss National Science Foundation), Dec 1st 2009 (n°83).

L Sillig (2009) Courier International, Aug 1st 2009 (n° 978), p. 51.

L Sillig (2009) Le Temps, Jun 15th 2009, p. 27.

C Berbain (2009) Terre & Nature, May 28th 2009, p. 2.

C. Gremaud (2008) UniNews (newsletter of the University of Neuchâtel), Oct 1st 2008 (n°7), p. 9.

Member of scientific societies

International Biogeography Society (2010-), Swiss Botanical Society (2010-), Swiss Zoological Society (2003-), Society of Natural Sciences of the Vaud canton (2010-) – *committee member (2010-2012)*.

Scientific committees

Fondation pour la Recherche sur la Biodiversité, Paris (2013-2015)

PhD Dissertation

“Host plants and organisation of diversity in phytophagous insects, from evolutionary radiations to population processes: the case of bruchid beetle genus *Acanthoscelides* Schilsky (Coleoptera)”; defended on **December 1st, 2004** at the **University of Montpellier** (France); advisors: Dr. Martine Hossaert-McKey, CNRS, Montpellier, and Dr. Betty Benrey, University of Neuchâtel.

In prep and submitted manuscripts

92. Ghazi Soltani G, Bénon D, Monfared A, **Alvarez N**, Praz CJ (in prep) When different contact zones within the same complex tell different stories - integrative taxonomy of the *Megachile concinna*-species complex (Hymenoptera, Megachilidae).
91. Pellissier L, Kostikova A, Litsios G, Salamin N, Guisan A, **Alvarez N** (in prep) Higher rate of diversification and molecular evolution in mutualistic Lycaenids.
90. Suchan T, Zahnd S, **Alvarez N** (in prep) Which demographic factors drive plant reproductive success in an obligate plant-pollinator interaction?
89. Cozzarolo C-S, Balke M, Buerki S, Salamin N, Sartori M, **Alvarez N** (in prep) Molecular diversity of a species-rich clade across the Wallace line (Ephemeroptera, Leptophlebiidae).
88. Seppey M, Roux J, Ioannidis P, Pitteloud C, Dessimoz C, Emerson B, McKenna DD, Meusemann K, Slipinski A, Salamin N, Robinson-Rechavi M, **Alvarez N** (in prep) Expansion of gene families and signature of positive selection linked to herbivory in polyphagous beetles.
87. Roy D, Genevest R, Gueuning M, Restoux G, **Alvarez N** (in prep) Do population patterns and processes differ between the margin and the core in a virgin silver fir forest.
86. Suchan T, Espíndola A, Emerson BC, Gori K, Dessimoz C, Arrigo N, **Alvarez N** (submitted) The limited use of molecular markers in retrieving phylogenies when star-like rapid radiations characterized by incomplete lineage sorting occur: a case study in the fly genus *Chiastocheta*. **Molecular Ecology**.
85. Pitteloud C, Arrigo N, Suchan T, Mastretta-Yanes A, Buerki S, Vila R, Dinca V, Hernandez-Roldan JL, Chittaro Y, Fumagalli L, Pellissier L, **Alvarez N** (in revision) Ecological character displacement and geographical context of lineage divergence: macro-evolutionary insights in the butterfly genus *Pyrgus*. **Proceedings of the Royal Society B**.
84. Gueuning M, Suchan T, Gattolliat J-L, Jamsari A, Kamil AI, Pitteloud C, Buerki S, Balke M, Sartori M, **Alvarez N** (submitted) Elevation in tropical sky islands as the common driver in structuring genes and communities of freshwater organisms. **Nature Ecology & Evolution**.
83. García-Olivares V, López H, **Alvarez N**, Machado A, Emerson BC (submitted) Mega-landslides as drivers of island colonisation. **Global Ecology and Biogeography**.
82. Schmid S, Pitteloud C, Heckel G, Pajkovic M, Arlettaz R, **Alvarez N** (in revision) Spatial and temporal genetic dynamics of the endangered grasshopper *Oedaleus decorus* revealed by museum genomics. **Molecular Ecology**.

Publications in international peer-reviewed journals (most important publications highlighted)

81. Claudel C, Buerki S, Chatrou LW, Antonelli A, **Alvarez N**, Hettterscheid W (submitted) Large-scale phylogeny of *Amorphophallus* (Araceae) derived from nuclear and plastid sequences reveals new subgeneric delineation. **Botanical Journal of the Linnean Society**.
80. Salgado AS, Suchan T, Pellissier L, Rasmann S, Ducrest A-L, **Alvarez N** (2016) Differential expression of defense compounds in a plant-herbivore interaction along elevation. **Royal Society Open Science** accepted. [IF₂₀₁₅ (*researchgate.net*) = 2.9]
79. Guangpeng R, Mateo RG, Liu J, Suchan T, **Alvarez N**, Guisan A, Conti E, Salamin N (2016) Genetic consequences of Quaternary climatic oscillations in the Himalayas: *Primula tibetica* as a case study based on RAD sequencing. **New Phytologist** accepted. [5-Year IF₂₀₁₅ = 7.6]
78. Triponez Y, Şepitci B, **Alvarez N** (2016) Species status of the two sister taxa *Lysimachia verticilaris* and *L. punctata*, based on genotype fingerprinting. **Plant Ecology and Evolution** in press. [5-Year IF₂₀₁₅ = 1.2]

77. Arrigo N, de La Harpe M, Litsios G, Zozomova J, Španiel S, Marhold K, Barker M, **Alvarez N** (2016) Hybridization as a driver of climatic niche evolution in *Alyssum montanum* (Brassicaceae). **American Journal of Botany** 103: 1348-1357. [5-Year IF₂₀₁₅ = 2.8] DOI: [10.3732/ajb.1500368](https://doi.org/10.3732/ajb.1500368)
76. Gori K, Suchan T, **Alvarez N**, Goldman N, Dessimoz C (2016) Clustering genes of common evolutionary history. **Molecular Biology and Evolution** 33: 1590-1605. [5-Year IF₂₀₁₅ = 13] DOI: [10.1093/molbev/msw038](https://doi.org/10.1093/molbev/msw038)
75. Suchan T, Pitteloud C, Gerasimova N, Kostikova A, Schmid S, Arrigo N, Pajkovic M, Ronikier M, **Alvarez N** (2016) Hybridization capture using RAD probes (hyRAD), a new tool for performing genomic analyses on collection specimens. **PLoS ONE** 11: e0151651. [5-Year IF₂₀₁₅ = 3.5] DOI: [10.1371/journal.pone.0151651](https://doi.org/10.1371/journal.pone.0151651)
74. Pellissier L, Eidesen PB, Ehrlich D, Schönswetter P, Tribisch A, Westergaard K, **Alvarez N**, Guisan A, Zimmermann NE, Normand S, Vittoz P, Luoto M, Damgaard C, Brochmann C, Wisz MS, Alsos IG (2016) Past climate-driven range shifts and population genetic diversity in Arctic plants. **Journal of Biogeography** 43: 461–470. [5-Year IF₂₀₁₅ = 4.7] DOI: [10.1111/jbi.12657](https://doi.org/10.1111/jbi.12657)
73. Kébé K, **Alvarez N**, Espíndola A, Justy F, Olivieri I, Sembène M (2016) Insights into African genetic structure of the insect cowpea pest *Callosobruchus maculatus* (F.) (Coleoptera: Chrysomelidae: Bruchinae). **Journal of Pest Science** 89:449–458. [5-Year IF₂₀₁₅ = 2.7] DOI: [10.1007/s10340-015-0688-5](https://doi.org/10.1007/s10340-015-0688-5)
72. Delplancke M, Yazbek M, Arrigo N, Espíndola A, Joly H, **Alvarez N** (2016) Combining conservative and variable markers to infer the evolutionary history of *Prunus* subgen. *Amygdalus s/l* under domestication. **Genetic Resources and Crop Evolution** 63:221–234. [5-Year IF₂₀₁₅ = 1.5] DOI: [10.1007/s10722-015-0242-6](https://doi.org/10.1007/s10722-015-0242-6)
71. Kenyon SG, Hansson C, Buerki S, **Alvarez N***, Benrey B* (2015) Uncovering cryptic parasitoid diversity in *Horismenus* (Chalcidoidea, Eulophidae). **PLoS ONE** 10: e136063. [IF₂₀₁₅ = 3.1] DOI: [10.1371/journal.pone.0136063](https://doi.org/10.1371/journal.pone.0136063) * These authors have jointly supervised this work and are considered joint last authors.
70. Suchan T, **Alvarez N** (2015) Fifty years after Ehrlich and Raven, is there support for plant-insect coevolution as a major driver of species diversification? **Entomologia experimentalis et applicata** 157: 98–112. [IF₂₀₁₅ = 1.4] DOI: [10.1111/eea.12348](https://doi.org/10.1111/eea.12348)
69. Suchan T, Beauverd M, Trim N, **Alvarez N** (2015). Asymmetrical nature of the *Trollius-Chiastocheta* interaction: insights into the evolution of nursery pollination systems. **Ecology and Evolution** 5: 4766-4777. [IF₂₀₁₅ = 2.5] DOI: [10.1002/ece3.1544](https://doi.org/10.1002/ece3.1544)
68. Triponez Y, Arrigo N, Espindola A, **Alvarez N** (2015) Decoupled post-glacial history in mutualistic plant-insect interactions: insights from the yellow loosestrife *Lysimachia vulgaris* and its associated oil-collecting bees (*Macropis europaea* and *M. fulvipes*). **Journal of Biogeography** 42: 630-640. [IF₂₀₁₅ = 4.0] DOI: [10.1111/jbi.12456](https://doi.org/10.1111/jbi.12456)
67. Mastretta-Yanes A, Arrigo N, **Alvarez N**, Jorgensen TH, Piñero D, Emerson BC (2015) RAD sequencing, genotyping error estimation and de novo assembly optimization for population genetic inference. **Molecular Ecology Resources** 15: 28-41. [IF₂₀₁₅ = 4.1] DOI: [10.1111/1755-0998.12291](https://doi.org/10.1111/1755-0998.12291)
66. Pajkovic M, Lappe S, Barman R, Parisod C, Neuenschwander S, Goudet J, **Alvarez N**, Guadagnuolo R, Felber F, Arrigo N (2014) Wheat alleles introgress into selfing wild relatives: empirical estimates from Approximate Bayesian Computation in *Aegilops triuncialis*. **Molecular Ecology** 23: 5089-5101. [IF₂₀₁₄ = 6.5] DOI: [10.1111/mec.12918](https://doi.org/10.1111/mec.12918)
65. Mastretta-Yanes A, Zamudio S, Jorgensen TH, Arrigo N, **Alvarez N**, Piñero D, Emerson BC (2014) Gene duplication, population genomics and species-level differentiation within a tropical mountain shrub. **Genome Biology and Evolution** 6: 2611-2624. [IF₂₀₁₄ = 4.2] DOI: [10.1093/gbe/evu205](https://doi.org/10.1093/gbe/evu205)
64. Espindola A, Carstens BC, **Alvarez N** (2014) Comparative phylogeography of mutualists and the effect of the host on the genetic structure of its partners. **Biological Journal of the Linnean Society** 113: 1021–1035. [IF₂₀₁₄ = 2.3] DOI: [10.1111/bij.12393](https://doi.org/10.1111/bij.12393)
63. Buerki S, Forest F, **Alvarez N** (2014) Proto-South East Asia as a trigger of early angiosperms diversification. **Botanical Journal of the Linnean Society** 174: 326–333. [IF₂₀₁₄ = 2.5] DOI: [10.1111/boj.12129](https://doi.org/10.1111/boj.12129)
62. Gugerli F, **Alvarez N**, Tinner W (2013) A deep dig - hindsight on Holocene plant composition from ancient environmental DNA. **Molecular Ecology** 22: 3433–3436. [IF₂₀₁₃ = 5.8] DOI: [10.1111/mec.12356](https://doi.org/10.1111/mec.12356)
61. Buerki S, Forest F, Stadler T, **Alvarez N** (2013) The abrupt climate change at the Eocene-Oligocene boundary and the emergence of South-East Asia triggered the spread of sapindaceous lineages. **Annals of Botany** 112: 151-160. [IF₂₀₁₃ = 3.4] DOI: [10.1093/aob/mct106](https://doi.org/10.1093/aob/mct106)

60. Triponez Y, Arrigo N, Schatz B, Pellissier L, **Alvarez N (2013)** Morphological, ecological and genetic aspects associated with endemism in the Fly Orchid group. *Molecular Ecology* 22: 1431-1446. [IF 2013 = 5.8] DOI: [10.1111/mec.12169](https://doi.org/10.1111/mec.12169)
59. Delplancke M*, **Alvarez N***, Benoit L, Espíndola A, Joly HI, Neuenschwander S, Arrigo N (2013) Evolutionary history of almond trees domestication in the Mediterranean basin. *Molecular Ecology* 22: 1092-1104. [IF 2013 = 5.8] *These authors have contributed equally and are considered joint first authors. DOI: [10.1111/mec.12129](https://doi.org/10.1111/mec.12129)
58. Pellissier L, **Alvarez N**, Espíndola A, Pottier J, Dubuis A, Pradervand J-N, Guisan A (2013) Phylogenetic alpha and beta diversities of butterfly communities correlate with climate in the western Swiss Alps. *Ecography* 36: 541-550. [IF 2013 = 4.2] DOI: [10.1111/j.1600-0587.2012.07716.x](https://doi.org/10.1111/j.1600-0587.2012.07716.x)
57. Taberlet P, Zimmermann NE, Englisch T, Tribsch A, Holderegger R, **Alvarez N**, Niklfeld H, Coldea C, Mirek Z, Moilanen A, Ahlmer W, Ajmone Marsan P, Bona E, Bovio M, Choler P, Cieślak E, Colli L, Cristea V, Dalmas J-P, Frajman B, Garraud L, Gaudeul M, Gielly L, Gutermann W, Jogan N, Kagalo AA, Korbecka G, Küpfer P, Lequette B, Roman Letz D, Manel S, Mansion G, Marhold K, Martini F, Negrini R, Niño F, Paun O, Pellecchia M, Perico G, Piękoś-Mirkowa H, Prosser F, Puşcaş M, Ronikier M, Scheuerer M, Schneeweiss GM, Schönswetter P, Schratt-Ehrendorfer L, Schüpfer F, Selvaggi A, Steinmann K, Thiel-Egenter C, van Loo M, Winkler M, Wohlgemuth T, Wraber T, Gugerli F, IntraBioDiv Consortium (2012) Genetic diversity in widespread species is not congruent with species richness in alpine plant communities. *Ecology Letters* 15: 1439-1448. [IF 2012 = 17.9] DOI: [10.1111/ele.12004](https://doi.org/10.1111/ele.12004)
56. Pellissier L, Litsios G, Guisan A, **Alvarez N (2012)** Molecular substitution rate increases in myrmecophilous lycaenid butterflies (Lepidoptera). *Zoologica Scripta* 41: 651-658. [IF 2012 = 2.8] DOI: [10.1111/j.1463-6409.2012.0056.x](https://doi.org/10.1111/j.1463-6409.2012.0056.x)
55. Bothwell H, Bisbing S, Crawford L, Therkildsen NO, **Alvarez N**, Holderegger R, Manel S (2013) Identifying genetic signatures of selection in a non-model species, alpine gentian (*Gentiana nivalis* L.), using a landscape genetic approach. *Conservation Genetics* 14: 467-481. [5-Year IF 2012 = 1.9] DOI: [10.1007/s10592-012-0411-5](https://doi.org/10.1007/s10592-012-0411-5)
54. Manel S, Gugerli F, Thuiller W, **Alvarez N**, Legendre P, Holderegger R, Gielly L, Taberlet P, IntraBioDiv consortium (2012) Broad-scale adaptive genetic variation in alpine plants is mainly driven by temperature and precipitation. *Molecular Ecology* 21: 3729-3738. [IF 2012 = 6.3] DOI: [10.1111/j.1365-294X.2012.05656.x](https://doi.org/10.1111/j.1365-294X.2012.05656.x)
53. **Alvarez N**, Manel S, Schmitt T IntraBioDiv Consortium, (2012) Contrasting diffusion of Quaternary gene pools across Europe: The case of the arctic-alpine *Gentiana nivalis* L. (Gentianaceae). *Flora* 207: 408-413. [IF 2012 = 1.7] DOI: [10.1016/j.flora.2012.03.006](https://doi.org/10.1016/j.flora.2012.03.006)
52. Espíndola A, Buerki S, Jacquier A, Ježek J, **Alvarez N (2012)** Phylogenetic relationships in the subfamily Psychodinae (Diptera, Psychodidae). *Zoologica Scripta* 41: 489-498. [IF 2012 = 2.8] DOI: [10.1111/j.1463-6409.2012.00544.x](https://doi.org/10.1111/j.1463-6409.2012.00544.x)
51. Espíndola A, Pellissier L, Hordijk W, Maiorano L, Guisan A, **Alvarez N (2012)** Predicting present and future intra-specific genetic structure through niche hindcasting across 24 millennia. *Ecology Letters* 15: 649-657. [IF 2012 = 17.9] DOI: [10.1111/j.1461-0248.2012.01779.x](https://doi.org/10.1111/j.1461-0248.2012.01779.x)
50. Jay F, Manel S, **Alvarez N**, Durand E, Thuiller W, Holderegger R, Taberlet P, Francois O (2012) Forecasting changes in population genetic structure of Alpine plants in response to global warming. *Molecular Ecology* 21: 2354-2368. [IF 2012 = 6.3] DOI: [10.1111/j.1365-294X.2012.05541.x](https://doi.org/10.1111/j.1365-294X.2012.05541.x)
49. Borer M, Buerki S, Arrigo N, Naisbit RE, **Alvarez N (2012)** Climate oscillations and species interactions: large-scale congruence but regional differences in the phylogeographic structures of an alpine plant and its monophagous insect. *Journal of Biogeography* 39: 1487-1498. [IF 2012 = 4.9] DOI: [10.1111/j.1365-2699.2012.02703.x](https://doi.org/10.1111/j.1365-2699.2012.02703.x)
48. Delplancke M, **Alvarez N**, Espíndola A, Joly H, Benoit L, Brouck E, Arrigo N (2012) Gene flow among wild and domesticated almond species: insights from chloroplast and nuclear markers. *Evolutionary Applications* 5: 317-329. [IF 2012 = 4.2] DOI: [10.1111/j.1752-4571.2011.00223.x](https://doi.org/10.1111/j.1752-4571.2011.00223.x)
47. Espíndola A, Buerki S, **Alvarez N (2012)** Ecological and historical drivers of diversification in the fly genus *Chiastocheta* Pokorny. *Molecular Phylogenetics and Evolution* 63: 466-474. [IF 2012 = 4.1]

[DOI:10.1016/j.ympcv.2012.01.018](https://doi.org/10.1016/j.ympcv.2012.01.018)

46. Revel N, **Alvarez N**, Gibernau M, Espíndola A (2012) Investigating the relationship between pollination strategies and the size-advantage model in zoophilous plants using the reproductive biology of *Arum cylindraceum* and other European *Arum* species as case studies. **Arthropod Plant Interactions** 6: 35-44. [IF 2012 = 1.6] [DOI:10.1007/s11829-011-9164-1](https://doi.org/10.1007/s11829-011-9164-1)
45. Boucher F, Thuiller W, Roquet C, Douzet R, Aubert S, **Alvarez N**, Lavergne S (2012) Reconstructing the origin of high-alpine niches and cushion life form in the genus *Androsace* s.l. (Primulaceae). **Evolution** 66: 1255–1268. [IF 2012 = 6.0] [DOI:10.1111/j.1558-5646.2011.01483.x](https://doi.org/10.1111/j.1558-5646.2011.01483.x)
44. Espíndola A, **Alvarez N** (2011) Comparative phylogeography in a specific and obligate pollination antagonism. **PLoS ONE** 6: e28662. [IF 2011 = 4.1] [DOI:10.1371/journal.pone.0028662](https://doi.org/10.1371/journal.pone.0028662)
43. Borer M, van Noort T, Arrigo N, Buerki S, **Alvarez N** (2011) Does a shift in host plants trigger the speciation in the Alpine leaf beetle *Oreina speciosissima* (Coleoptera, Chrysomelidae)? **BMC Evolutionary Biology** 11:310. [IF 2011 = 3.5] [DOI:10.1186/1471-2148-11-310](https://doi.org/10.1186/1471-2148-11-310)
42. Barbu L, Guinand C, Bergmüller R, **Alvarez N**, Bshary R (2011) Cleaning wrasse species vary with respect to dependency on the mutualism and behavioural adaptations in interactions. **Animal Behaviour** 82: 1067-1074. [IF 2011 = 3.5] [DOI:10.1016/j.anbehav.2011.07.043](https://doi.org/10.1016/j.anbehav.2011.07.043)
41. Bassin L, **Alvarez N**, Pellissier L, Triponez Y (2011) Ecological niche overlap in sister species: how do oil-collecting bees *Macropis europaea* and *M. fulvipes* (Hymenoptera: Melittidae) avoid competition and hybridization? **Apidologie** 42: 579-595. [IF 2011 = 2.1] [DOI:10.1007/s13592-011-0067-z](https://doi.org/10.1007/s13592-011-0067-z)
40. Triponez Y, Borer M, Buerki S, Naisbit RE, Rahier M, **Alvarez N** (2011) Discordances between phylogenetic and morphological patterns of alpine leaf beetles attest for intricate history of lineages in postglacial Europe. **Molecular Ecology** 20: 2442–2463. [IF 2011 = 5.5] [DOI:10.1111/j.1365-294X.2011.05096.x](https://doi.org/10.1111/j.1365-294X.2011.05096.x)
39. Espíndola A, Pellissier L, **Alvarez N** (2011) Variation in the proportion of flower visitors of *A. maculatum* along its distributional range in relation with community-based climatic niche analysis. **Oikos** 120: 728-734. [IF 2011 = 3.1] [DOI:10.1111/j.1600-0706.2010.18937.x](https://doi.org/10.1111/j.1600-0706.2010.18937.x)
38. Thiel-Egenter C*, **Alvarez N***, Holderegger R, Tribsch A, Englisch T, Wohlgemuth T, Ahlmer WR, Colli L, Dalmas JP, Gaudeul M, Gielly L, Jogan N, Lequette B, Linder HP, Martini F, Negrini R, Niklfeld H, Pellecchia M, Prosser F, Rioux D, Rossi P, Scheuerer M, Schönswetter P, Selvaggi A, vanLoo M, Winkler M, IntraBioDiv Consortium, Gugerli F (2011) Break zones in the distribution of alleles and species in Alpine plants. **Journal of Biogeography** 38: 772–782. [IF 2011 = 4.5] *These authors have contributed equally and are considered joint first authors. [DOI:10.1111/j.1365-2699.2010.02441.x](https://doi.org/10.1111/j.1365-2699.2010.02441.x)
37. Buerki S, Forest F, **Alvarez N**, Nylander JAA, Arrigo N, Sanmartín I (2011) An evaluation of new parsimony-based versus parametric inference methods in biogeography: a case study using the worldwide plant soapberry family (Sapindaceae). **Journal of Biogeography** 38: 531-550. [IF 2011 = 4.5] [DOI:10.1111/j.1365-2699.2010.02432.x](https://doi.org/10.1111/j.1365-2699.2010.02432.x)
36. Kébé K, **Alvarez N**, Thiaw C, Sembéné M (2011) Les Chalcidiens (Hymenoptera, Chalcidoidea) associés au genre *Ficus* spp. (Moraceae) du Sénégal: répartition, abondance et diversité. **Bulletin de la Société vaudoise des Sciences naturelles** 92: 137-152.
35. Born C, **Alvarez N**, Ossari S, Muloko N, McKey D, Wickings EJ, Hossaert-McKey M, Chevallier M-H (2011) Insights into the biogeographical history of the Lower Guinean Forest Domain: evidence for the role of refugia in the intraspecific differentiation of *Aucoumea klaineana*. **Molecular Ecology** 20: 131-142. [IF 2011 = 5.5] [DOI:10.1111/j.1365-294X.2010.04919.x](https://doi.org/10.1111/j.1365-294X.2010.04919.x)
34. Buerki S, Forest F, Salamin N, **Alvarez N** (2011) Comparative Performance of Supertree Algorithms in Large Data Sets using the Soapberry Family (Sapindaceae) as a case study. **Systematic Biology** 60: 32-44. [IF 2011 = 10.2] [DOI:10.1093/sysbio/syq057](https://doi.org/10.1093/sysbio/syq057)
33. Favre A, Yuan Y-M, Küpfer P, **Alvarez N** (2010) Phylogeny of subtribe Gentianinae (Gentianaceae): biogeographic inferences despite limitations in temporal calibration points. **Taxon** 59: 1701-1711. [IF₂₀₁₀ = 2.4] [link](#)
32. Borer M, **Alvarez N**, Buerki S, Margraf N, Rahier M, Naisbit RE (2010) The phylogeography of an alpine leaf beetle: Divergence within *Oreina elongata* spans several ice ages. **Molecular Phylogenetics and**

Evolution 57: 703-709. [IF₂₀₁₀ = 3.9] [DOI:10.1016/j.ympev.2010.08.017](https://doi.org/10.1016/j.ympev.2010.08.017)

31. Jourdie V, Virla E, Murillo H, Bento JMS, Turlings TCJ, **Alvarez N (2010)** Molecular phylogeography of *Chelonus insularis* (Hymenoptera: Braconidae) and *Campoletis sonorensis* (Hymenoptera: Ichneumonidae), two primary parasitoids of the fall armyworm, *Spodoptera frugiperda* (Lepidoptera: Noctuidae). **Annals of the Entomological Society of America** **103:** 742-749. [IF₂₀₁₀ = 1.0] [DOI:10.1603/AN09156](https://doi.org/10.1603/AN09156)
30. Arrigo N, Felber F, Parisod C, Buerki S, **Alvarez N**, David J, Guadagnuolo R (2010) Origin and expansion of the allotetraploid *Aegilops geniculata* Roth, a wild relative of wheat. **New Phytologist** **187:** 1170–1180. [IF₂₀₁₀ = 6.5] [DOI:10.1111/j.1469-8137.2010.03328.x](https://doi.org/10.1111/j.1469-8137.2010.03328.x)
29. Buerki S, Callmander MW, **Alvarez N**, Razafimandimbison SG, K pfer P, Lowry II PP (2010) Phylogeny and circumscription of Sapindaceae revisited: molecular sequence data, morphology and biogeography support recognition of a new family, Xanthoceraceae. **Plant Ecology and Evolution** **143:** 1–20. [IF₂₀₁₀ = 0.6] [DOI:10.5091/plecevo.2010.437](https://doi.org/10.5091/plecevo.2010.437)
28. Restoux G, Hossaert-McKey M, Benrey B, **Alvarez N (2010)** The effect of host plant and isolation on the genetic structure of phytophagous insects: A preliminary study on a bruchid beetle. **European Journal of Entomology** **107:** 299-304. [IF₂₀₁₀ = 0.9] [link](#)
27. Esp ndola A, Buerki S, Bedalov M, K pfer P, **Alvarez N (2010)** New insights into the phylogenetics and biogeography of *Arum* (Araceae): unravelling its evolutionary history. **Botanical Journal of the Linnean Society** **163:** 14-32. [IF₂₀₁₀ = 1.9] [DOI:10.1111/j.1095-8339.2010.01049.x](https://doi.org/10.1111/j.1095-8339.2010.01049.x)
26. Jourdie V*, **Alvarez N***, Molina-Ochoa J, Williams T, Bergvinson D, Benrey B, Turlings T, Franck P (2010) Population genetic structure of two primary parasitoids of *Spodoptera frugiperda* (Lepidoptera), *Chelonus insularis* and *Campoletis sonorensis* (Hymenoptera): to what extent is the host plant important? **Molecular Ecology** **19:** 2168-2179. [IF₂₀₁₀ = 6.5] *These authors have contributed equally and are considered joint first authors. [DOI:10.1111/j.1365-294X.2010.04625.x](https://doi.org/10.1111/j.1365-294X.2010.04625.x)
25. Selosse M-A, Dubois M-P, **Alvarez N (2009)** Do Sebacinales commonly associate with plant roots? **Mycological Research** **113:** 1062-1069. [IF₂₀₀₉ = 2.9] [DOI:10.1016/j.mycres.2009.07.004](https://doi.org/10.1016/j.mycres.2009.07.004)
24. Burnier J, Buerki S, Arrigo N, K pfer P, **Alvarez N (2009)** Genetic structure and evolution of Alpine polyploid complexes: *Ranunculus kuepferi* (Ranunculaceae) as a case study. **Molecular Ecology** **18:** 3730-3744. [IF₂₀₀₉ = 6.0] [DOI:10.1111/j.1365-294X.2009.04281.x](https://doi.org/10.1111/j.1365-294X.2009.04281.x)
23. Buerki S, Callmander MW, Sch pfer F, Ravokatra M, **Alvarez N (2009)** Malagasy *Dracaena* Vand. ex L. (Ruscaceae): an investigation of discrepancies between morphological features and spatial genetic structure at a small evolutionary scale. **Plant Systematics and Evolution** **280:** 15-28. [IF₂₀₀₉ = 1.4] [DOI:10.1007/s00606-009-0162-z](https://doi.org/10.1007/s00606-009-0162-z)
22. **Alvarez N**, Thiel-Egenter C, Tribsch A, Holderegger R, Manel S, Taberlet P, K pfer P, Brodbeck S, Gaudeul M, Gielly L, Mansion G, Negrini R, Paun O, Pellicchia M, Rioux D, Sch nswetter P, Sch pfer F, Van Loo M, Winkler M, Gugerli F, IntraBioDiv Consortium (2009) History or ecology? Substrate type as a major driver of spatial genetic structure in Alpine plants. **Ecology Letters** **12:** 632-640. [IF₂₀₀₉ = 10.3] [DOI:10.1111/j.1461-0248.2009.01312.x](https://doi.org/10.1111/j.1461-0248.2009.01312.x)
21. Buerki S, Forest F, Acevedo-Rodr guez P, Callmander MW, Nylander JAA, Harrington M, Sanmart n I, K pfer P, **Alvarez N (2009)** Plastid and nuclear DNA markers reveal intricate relationships at subfamilial and tribal levels in the soapberry family (Sapindaceae). **Molecular Phylogenetics and Evolution** **51:** 238-258. [IF₂₀₀₉ = 3.6] [DOI:10.1016/j.ympev.2009.01.012](https://doi.org/10.1016/j.ympev.2009.01.012)
20. Arrigo N, Ehrich D, Tuszynski J, Gerdes T, **Alvarez N (2009)** Evaluating the impact of scoring parameters on the structure of intra-specific genetic variation using RawGeno, an R package for automating AFLP scoring. **BMC Bioinformatics** **10:** 33. [IF₂₀₀₉ = 3.4] [DOI:10.1186/1471-2105-10-33](https://doi.org/10.1186/1471-2105-10-33)
19. Jourdie V, **Alvarez N**, Turlings T, Franck P (2009) Isolation and characterization of polymorphic microsatellite loci in two primary parasitoids of the noctuid *Spodoptera frugiperda*: *Chelonus insularis* and *Campoletis sonorensis* (Hymenoptera). **Molecular Ecology Resources** **9:** 171-173. [IF₂₀₀₉ = 1.3] [DOI:10.1111/j.1755-0998.2008.02408.x](https://doi.org/10.1111/j.1755-0998.2008.02408.x)
18. Thiel-Egenter C, Gugerli F, **Alvarez N**, Brodbeck S, Cieslak E, Colli L, Englisch T, Gaudeul M, Gielly L, Korbecka G, Negrini R, Paun O, Pellicchia M, Rioux D, Ronikier M, Sch nswetter P, Sch pfer F, Taberlet

- P, Tribsch A, van Loo M, Winkler M, Holderegger R, IntraBioDiv Consortium (2009) Effects of species traits on the genetic diversity of high-mountain plants: a multi-species study across the Alps and the Carpathians. **Global Ecology and Biogeography** 18: 78-87. [IF₂₀₀₉ = 5.9] [DOI:10.1111/j.1466-8238.2008.00421.x](https://doi.org/10.1111/j.1466-8238.2008.00421.x)
17. Nadir Alvarez, Nils Arrigo, IntraBioDiv Consortium (2008) SIMIL: an R (CRAN) scripts collection for computing genetic structure similarities based on STRUCTURE 2 outputs. **Molecular Ecology Resources** 8: 757-762. [IF₂₀₀₉ = 1.6] [DOI:10.1111/j.1755-0998.2007.02076](https://doi.org/10.1111/j.1755-0998.2007.02076)
 16. Jourdie V, Alvarez N, Turlings T (2008) Identification of seven species of hymenopteran parasitoids of *Spodoptera frugiperda* J.E. Smith (Lepidoptera: Noctuidae), using PCR amplification and restriction enzymes. **Agricultural and Forest Entomology** 10: 129-136. [IF₂₀₀₈ = 1.4] [DOI:10.1111/j.1461-9563.2008.00362.x](https://doi.org/10.1111/j.1461-9563.2008.00362.x)
 15. Kergoat GJ, Alvarez N (2008) Assessing the phylogenetic usefulness of a previously neglected morphological structure through elliptic Fourier analyses: a case study in *Bruchus* seed-beetles (Coleoptera: Chrysomelidae: Bruchinae: Bruchini). **Systematic Entomology** 33: 289-300. [IF₂₀₀₈ = 1.8] [DOI:10.1111/j.1365-3113.2007.00405.x](https://doi.org/10.1111/j.1365-3113.2007.00405.x)
 14. Alvarez N, Hossaert-McKey M, Restoux G, Delgado-Salinas A, Benrey B (2007) Anthropogenic effects on population genetics of phytophagous insects associated with domesticated plants. **Evolution** 61: 2986–2996. [IF₂₀₀₇ = 4.5] [DOI:10.1111/j.1558-5646.2007.00235.x](https://doi.org/10.1111/j.1558-5646.2007.00235.x)
 13. Triponez Y, Naisbit RE, Jean-Denis JB, Rahier M, Alvarez N (2007) Genetic and environmental sources of variation in the autogenous chemical defence of a leaf beetle. **Journal of Chemical Ecology** 33: 2011–2027. [IF₂₀₀₇ = 1.9] [DOI:10.1007/s10886-007-9351-9](https://doi.org/10.1007/s10886-007-9351-9)
 12. Alvarez N, Benrey B, Hossaert-McKey M, Grill A, McKey D, Galtier N (2006) Phylogeographic support for horizontal gene transfer involving sympatric bruchid species. **Biology Direct** 1: 21. [IF₂₀₀₇ = 3.3] [DOI:10.1186/1745-6150-1-21](https://doi.org/10.1186/1745-6150-1-21)
 11. Alvarez N, Mercier L, Hossaert-McKey M, Contreras-Garduño J, Kunstler G, Aebi A, Benrey B (2006) Ecological distribution and niche segregation of two sibling species of bean beetles, *Acanthoscelides obtectus* Say and *A. obvelatus* Bridwell. **Ecological Entomology** 31: 582–590. [IF₂₀₀₆ = 2.0] [DOI:10.1111/j.1365-2311.2006.00817.x](https://doi.org/10.1111/j.1365-2311.2006.00817.x)
 10. Grill A, Gkiokia E, Alvarez N (2006) Evolutionary history and patterns of differentiation among European *Maniola* butterflies (Lepidoptera: Satyrinae). **European Journal of Entomology** 103: 613–618. [IF₂₀₀₆ = 0.8] [link](#)
 9. Alvarez N, Romero Napoles J, Anton K-W, Benrey B, Hossaert-McKey M (2006) Phylogenetic relationships in the Neotropical bruchid genus *Acanthoscelides* Schilsky. **Journal of Zoological Systematics and Evolutionary Research** 44: 63–74. [IF₂₀₀₆ = 1.8] [DOI:10.1111/j.1439-0469.2005.00344.x](https://doi.org/10.1111/j.1439-0469.2005.00344.x)
 8. Kergoat GJ*, Alvarez N*, Hossaert-McKey M, Faure N, Silvain J-F (2005) Parallels in the evolution of the two largest seed-beetle genera (Coleoptera: Bruchidae). **Molecular Ecology** 14: 4003–4021. [IF₂₀₀₅ = 4.3] *These authors have contributed equally and are considered joint first authors. [DOI:10.1111/j.1365-294X.2005.02702.x](https://doi.org/10.1111/j.1365-294X.2005.02702.x)
 7. Alvarez N, McKey D, Hossaert-McKey M, Born C, Mercier L, Benrey B (2005) Ancient and recent evolutionary history of the cosmopolitan bean bruchid pest *Acanthoscelides obtectus* Say. **Molecular Ecology** 14: 1015–1024. [IF₂₀₀₅ = 4.3] [DOI:10.1111/j.1365-294X.2005.02470.x](https://doi.org/10.1111/j.1365-294X.2005.02470.x)
 6. Alvarez N, Hossaert-McKey M, Rasplus J-Y, McKey D, Mercier L, Soldati L, Aebi A, Shani T, Benrey B (2005) Sibling species of bean bruchids: morphological and phylogenetic studies among *Acanthoscelides obtectus* Say and *A. obvelatus* Bridwell. **Journal of Zoological Systematics and Evolutionary Research** 43: 29–37. [IF₂₀₀₅ = 1.2] [DOI:10.1111/j.1439-0469.2004.00286.x](https://doi.org/10.1111/j.1439-0469.2004.00286.x)
 5. Alvarez N, Garine E, Khasah C, Dounias E, Hossaert-McKey M, McKey D (2005) Farmers' practices, population processes, and conservation of agricultural biodiversity on-farm: a case study of sorghum among the Duupa in sub-sahelian Cameroon. **Biological Conservation** 121: 533–543. [IF₂₀₀₅ = 2.6] [DOI:10.1016/j.biocon.2004.05.021](https://doi.org/10.1016/j.biocon.2004.05.021)
 4. Aebi A, Shani T, Butcher RDJ, Alvarez N, Risterucci A-M, Benrey B (2005) Isolation and characterization of polymorphic microsatellite markers in *Zabrotes subfasciatus* Boheman (Coleoptera: Bruchidae).

- Molecular Ecology Notes** 4: 752–754. [IF2005 = 1.2] [DOI:10.1111/j.1471-8286.2004.00808.x](https://doi.org/10.1111/j.1471-8286.2004.00808.x)
3. Aebi A, **Alvarez N**, Butcher RDJ, Hansson C, Risterucci A-M, Benrey B (2004) Microsatellite markers in a complex of *Horismenus* sp. (Hymenoptera: Eulophidae), parasitoids of bruchid beetles. **Molecular Ecology Notes** 4: 707-709. [IF2004 = 1.2] [DOI:10.1111/j.1471-8286.2004.00766.x](https://doi.org/10.1111/j.1471-8286.2004.00766.x)
 2. **Alvarez N**, Born C, Risterucci A-M, Sourrouille P, Benrey B, Hossaert-McKey M (2004) Isolation and characterization of polymorphic microsatellite loci in *Acanthoscelides obtectus* Say (Coleoptera: Bruchidae). **Molecular Ecology Notes** 4: 683–685. [IF2004 = 1.2] [DOI:10.1111/j.1471-8286.2004.00784.x](https://doi.org/10.1111/j.1471-8286.2004.00784.x)
 1. **Alvarez N**, Aebi A, Risterucci A-M, Hossaert-McKey M, Benrey B (2003) Isolation and characterization of polymorphic microsatellite loci in *Acanthoscelides obvelatus* Bridwell (Coleoptera: Bruchidae). **Molecular Ecology Notes** 3: 12–14. [IF2003 = 1.1] [DOI:10.1046/j.1471-8286.2003.00335.x](https://doi.org/10.1046/j.1471-8286.2003.00335.x)

Book chapters

- B5. Rasmann S, **Alvarez N**, Pellissier L (2014) The altitudinal niche breadth hypothesis in plant-insect interaction. In *Plant Insect Interactions. Annual Plant Reviews Series 47* (Voelckel C & Jander G, eds). Wiley-Blackwell Publishing, Oxford, UK, pp. 339-360.
- B4. Hiltbold I, Bernklau EJ, Bjostad LB, **Alvarez N**, Miller-Struttman NE, Lundgren JG, Hibbard BE (2013) Nature, evolution and characterisation of rhizospheric chemical exudates affecting root herbivores. In *Behaviour and Physiology of Root Herbivores. Advances in Insect Physiology 45* (Johnson SN, Hiltbold I, Turlings TCJ, eds). Academic Press, Oxford, UK, pp. 97-157.
- B3. Arrigo N, Holderegger R, **Alvarez N** (2012) From raw AFLP chromatograms to ready-to-use binary matrices using RawGeno 2.0, an user-friendly interface for automatized and semi-automatized binning and scoring of genotypes in the open-source R environment. In *Population Genomics: Methods and Protocols. Methods in Molecular Biology Series*. (Bonin A & Pompanon F, eds). Humana Press, New York, USA, pp. 155-175.
- B2. Pellissier L, **Alvarez N**, Guisan A (2011) Pollinators as drivers of plant distribution and assemblage into communities. In *Evolution of the Plant Pollinator Relationships* (Patinay S, ed). Cambridge University Press, UK, pp. 392-413.
- B1. **Alvarez N**, Kjellberg F, McKey D, Hossaert-McKey M (2010) Phylogeography and historical biogeography of obligate specific mutualisms. In *The Geography of Host-Parasite Interactions* (Morand S & Krasnov B, eds). Oxford University Press, UK, pp. 31–39.

Meeting proceedings

- M4. Suchan T, Ronikier M, **Alvarez N** (2013) Identifying landscape factors influencing spatial genetic structure of a mountain plant - a comparative approach across four European mountain massifs. **Acta Biologica Cracoviensia Series Botanica** 55: 66-66.
- M3. Ronikier M, **Alvarez N**, Arrigo N, IntraBioDiv consortium (2013) High-mountain flora of the Carpathians: a multispecies comparative phylogeography. **Acta Biologica Cracoviensia Series Botanica** 55: 31-31.
- M2. **Alvarez N**, Espíndola A (2010) Comprendre la dispersion des espèces dans l'espace et dans le temps : un défi pour les biogéographes. *Actes de la Société Jurassienne d'Emulation* (Annals of the Jura Society of Emulation), Pp. 27-41.
- M1. Jourdie V, **Alvarez N**, Turlings T (2007) Identification of parasitoid species using PCR amplification and restriction enzyme digestion. **Journal of Insect Science** 7: 12–12.

Participation in scientific symposia and seminars (Posters, Conferences)

- S59 [C34]. **Alvarez N** (2016) Combining ecology and genomics for a better understanding of evolution—the signature of the environment in micro-evolutionary processes: consequences on the fate of life history traits and speciation. Mini-symposium for a professor position in Evolutionary Genetics held at the University of Neuchâtel. May 13, 2016.

- S58 [C33]. **Alvarez N** (2016) Putting museum samples, genomics and ecology together. What does it tell us about evolution? Mini-symposium for a professor position in Evolutionary Biology held at the University of Fribourg. May 4, 2016.
- S57 [C32] Cozzarolo C-S, **Alvarez N**, Sartori M (2016) Molecular phylogeny and biogeography of the *Thraulius* lineage (Ephemeroptera, Leptophlebiidae) in New Guinea. *entomo.ch* annual conference. Museum of Natural History of Neuchatel, Neuchatel. March 4-5, 2016.
- S56 [P25] Schmid S, Pitteloud C, Arlettaz R, **Alvarez N** (2016) Museum genomics and past genetic diversity in an endangered grasshopper (*Oedaleus decorus*). Annual Meeting of the Swiss Zoological, Botanical and Mycological Societies (Biology16). February 11-12, 2016. University of Lausanne, Switzerland.
- S55 [P24] Seppey M, Robinson-Rechavi M, **Alvarez N** (2016) Expansions of Gene Families and Signatures of positive Selection linked to Herbivory in Polyphagous Beetles. Annual Meeting of the Swiss Zoological, Botanical and Mycological Societies (Biology16). February 11-12, 2016. University of Lausanne, Switzerland.
- S54 [P23] Koubinova D, Suchan T, Vila R, **Alvarez N** (2016) Ecological island syndrome in Lycaenid butterflies. Annual Meeting of the Swiss Zoological, Botanical and Mycological Societies (Biology16). February 11-12, 2016. University of Lausanne, Switzerland.
- S53 [C31] **Alvarez N** (2015) Dynamics of genetic variation during species' range contractions: concepts and prospects. Colloquium in Plant Sciences, Institute of Plant Sciences, University of Bern. October 12, 2015.
- S52 [C30] Koubinova D, Suchan T, Gueuning M, Vila R, **Alvarez N** (2015) Genetic structure of lycaenid butterflies with contrasted levels of ant dependency. *Evolution* 2015. June 26-30, 2015, Guaruja, Brazil.
- S51 [P22] Pitteloud C, Suchan T, Kostikova A, Gerasimova NS, **Alvarez N** (2015) Hybridization capture using RAD-seq probes: a novel technique improving data quality and among-sample overlap. ESEB meeting. August 2015. Lausanne, Switzerland.
- S50 [P21] Suchan T, **Alvarez N** (2015) Insights into the asymmetrical nature of nursery pollination mutualisms: the *Trollius-Chiastocheta* interaction as a case study. ESEB meeting. August 2015. Lausanne, Switzerland.
- S49 [C29] **Alvarez N**, Genevest R, Suchan T (2015) Comparative performance of three protocols for DNA extraction from millennial macrofossils of *Abies alba* and first insights into probe-based hybrid-capture of DNA fragments in a RADseq perspective. Plant aDNA workshop. WSL Birmensdorf, Birmensdorf, Switzerland. March 19-20, 2015.
- S48 [C28] **Alvarez N** (2015) The role of elevation in structuring species assemblages and intra-specific genetic variation in tropical sky islands. *entomo.ch* annual conference. Agroscope Reckenholz, Reckenholz. March 6-7, 2015. *Keynote speaker*.
- S47 [P20] Salgado A, **Alvarez N** (2015) Is there a differential expression in defence-associated genes along elevation? Annual Meeting of the Swiss Zoological, Botanical and Mycological Societies (Biology15). February 12-13, 2015. EAWAG Dübendorf, Switzerland.
- S46 [P19] Pajkovic M, Bolliger J, Kaila L, **Alvarez N** (2015) Genetic Consequences of Species' Range Shifts and Contractions due to Climate and Land-use Changes. 1st Annual Meeting in Conservation Genetics. WSL Birmensdorf, Zürich, Switzerland. January 28–30, 2015.
- S45 [C27] **Alvarez N** (2014) Processes from patterns – can co-evolutionary diversification be tested in a phylogenetic framework? SIP15 – 15th International Symposium on Insect-Plant Relationships. University of Neuchâtel, Switzerland. August 17-22, 2014. *Invited Speaker*.
- S44 [C26]. Ronikier M, **Alvarez N** (2014) The fate of ecological interactions in a changing climate: using next-generation sequencing technologies to unravel historical processes in a community of interrelated arctic-alpine organism. Polish-Swiss Research Programme Conference “We move Science”. Osrodek Przetwarzania Informacji. Warsaw, Poland. April 2-8, 2014.
- S43 [C25]. Pitteloud C, Arrigo N, Mastretta-Yanes A, Suchan T, Buerki S, **Alvarez N** (2014) NGS analysis of insect collection specimens: a gold mine for evolutionary biologists. Collections-based research in the genomic era. A joint meeting of the Centre for Ecology and Evolution & the Linnean Society of London. Linnean Society, London. April 2-3, 2014.

- S42 [C24]. **Alvarez N** (2013) Phylogeography Reloaded: Genetic Analyses of Museum Specimens to Reveal Historical Processes. Mini-symposium for a professor position in Entomology held at the University of Lausanne. October 9, 2013.
- S41 [C23]. **Alvarez N** (2013) Comparative phylogeography of plants and associated insects. Seminar Unit of Ecology and Evolution, University of Fribourg. September 17, 2013.
- S40 [P18]. Suchan T, Ronikier M, **Alvarez N** (2013) Identifying landscape factors influencing spatial genetic structure of a mountain plant – a comparative approach across four European mountain massifs. Biogeography of the Carpathian. September 26–28, 2013. Kraków, Poland.
- S39 [C22] Ronikier M, **Alvarez N**, Arrigo N, IntraBioDiv consortium (2013) High-mountain flora of the Carpathians: a multispecies comparative phylogeography. Biogeography of the Carpathian. September 26–28, 2013. Kraków, Poland.
- S38 [C21]. **Alvarez N** (2013) Do dependent species track dispersal of their host? Botanisches Kolloquium, Institute of Botany, University of Innsbruck. June 19, 2013.
- S37 [C20]. **Alvarez N** (2013) Do insects track dispersal of their host plant in the context of specific interactions? Colloquium in Plant Sciences, Institute of Plant Sciences, University of Bern. May 27, 2013.
- S36 [C19]. **Alvarez N** (2013) An insight into evolutionary history of specific interactions. Colloquium of the Institute of Systematic Botany, University of Zürich. March 25, 2013.
- S35 [C18]. **Alvarez N** (2012) How do historical, biotic and abiotic factors shape the spatial distribution of genetic variation in plants and insects? Molecular Population Genetics Course. 18 January 2012. Geneva, Switzerland. *Invited Speaker*.
- S34 [P17]. Espindola A, Carstens B, **Alvarez N** (2011) Are the Quaternary histories of mutualistic partners interrelated? ESEB meeting. August 2011. Tübingen, Germany.
- S33 [P16]. van Noort T, Borer M, Arrigo N, Buerki S, **Alvarez N** (2011) Does a shift in host plants trigger speciation in the Alpine leaf beetle *Oreina speciosissima*? Swiss Plant Science Web Summer school on "Terrestrial ecosystem dynamics in a changing world". 21-24 June 2011. Mürren, Switzerland.
- S32 [C17]. **Alvarez N** (2011) The role of historical and ecological factors in structuring genes and species. Salón de Grados, Escuela Politécnica Superior de Huesca, 31 May 2011. Huesca, Spain.
- S31 [P15]. Gugerli F, **Alvarez N**, Gielly L, Holderegger R, Legendre P, Taberlet P, Thuiller W, Manel S, IntraBioDiv Consortium (2010) Multi-species environmental association study identifies loci primarily affected by temperature and precipitation in Alpine plants. Evolutionary and Ecological Genomics of Adaptation. Fribourg, September 2–3, 2010.
- S30 [C16]. **Alvarez N** (2010) Tracking the evolutionary history of interactions using new sequencing technologies. Museum Seminar Series, Louisiana State University. 12 March 2010. Baton Rouge, LA, USA.
- S29 [C15]. Triponez Y, Schatz B, **Alvarez N** (2010) Classical species delimitation among the Fly Orchid group does not allow predicting patterns of genetic diversity. Satellite Symposium on Plant and Animal Conservation Ecology (PACE10). 10 February 2010. Neuchâtel, Switzerland.
- S28 [C14]. **Alvarez N** (2009) Movements of species and populations through time and space: How biogeography explains the past and current distribution of living organisms? Annual conference of the Scientific Circle from the Jurassian Society of Emulation, 5 December 2009. Porrentruy, Switzerland.
- S27 [P14]. Triponez Y, Schatz B, **Alvarez N** (2009) Intricate lineage boundaries within the Fly Orchid group (*Ophrys insectifera* s.l.): Are there consequences for conservation strategies? 2nd DIVERSITAS Open Science Conference. 13-17 October 2009. Cape Town, South Africa.
- S26 [P13]. Espindola A, **Alvarez N** (2009) Does nursery pollination promote species diversification in the West-Palaearctic? 2nd DIVERSITAS Open Science Conference. 13-17 October 2009. Cape Town, South Africa.

- S25 [C13]. Espindola A, **Alvarez N (2009)** Biogeography of *Arum maculatum* pollinators. Xth International Aroid Society Conference. 8-10 July 2009. Nancy, France.
- S24 [C12]. **Alvarez N (2008)** Current research, actual limits and future challenges in comparative phylogeography: Tracking the evolutionary history of specific plant-insect interactions. Seminar of the Department of Ecology and Evolution (DEE). 16th December 2008. Bâtiment Biophore, Université de Lausanne, Switzerland.
- S23 [C11]. **Alvarez N**, IntraBioDiv Consortium (2008) Soil ecology as a driver of spatial genetic structure in alpine plants. Xth Symposium of the International Organization of Plant Biosystematics. 2-4 July 2008. Vysoké Tatry, Slovakia.
- S22 [C10]. Buerki S, Forest F, Acevedo-Rodriguez P, Callmänder MW, Nylander JAA, Küpfer P, **Alvarez N (2008)** Towards a new classification for the soapberry family (Sapindaceae). June 2008. Conservatoire et Jardin botaniques de la ville de Genève, Geneva, Switzerland.
- S21 [P12]. Arrigo N, Ehrich D, Tuszynski J, Gerdes T, **Alvarez N (2008)** RawGeno : An R (CRAN) package for automating GeneScan scoring procedures. Annual Meeting of the Swiss Zoological, Botanical and Mycological Societies (Biology08). 6-8 February 2008. Université de Lausanne, Switzerland. **BEST POSTER AWARD.**
- S20 [P11]. Borer M, **Alvarez N**, Rahier M, Naisbit RE (2008) The ice age refugia of an alpine leaf beetle. Annual Meeting of the Swiss Zoological, Botanical and Mycological Societies (Biology08). 6-8 February 2008. Bâtiment Anthropole, Université de Lausanne, Switzerland.
- S19 [P10]. Arrigo N, Pasche S, Lappe S, **Alvarez N**, Felber F, Guadagnuolo R (2008) Investigating gene flow in the *Aegilops – Triticum* species complex. NCCR International Conference on Plant Species Concepts and Evolution (in honour of the retirement of Philippe Küpfer). 30 January–1 February 2008. University of Neuchâtel, Neuchâtel, Switzerland.
- S18 [P9]. Buerki S, Callmänder MW, Schüpfer F, Ravokatra M, Küpfer P, **Alvarez N (2008)** Solving the inconsistency between morphology and phylogeny in the Madagascan *Dracaena* Vand. ex. L. (Ruscaceae). NCCR International Conference on Plant Species Concepts and Evolution (in honour of the retirement of Philippe Küpfer). 30 January–1 February 2008. University of Neuchâtel, Neuchâtel, Switzerland.
- S17 [P8]. Buerki S, Sanmartin I, Callmänder MW, **Alvarez N (2008)** Systematics and biogeography of the Soapberry Family (Sapindaceae). NCCR International Conference on Plant Species Concepts and Evolution (in honour of the retirement of Philippe Küpfer). 30 January–1 February 2008. University of Neuchâtel, Neuchâtel, Switzerland.
- S16 [P7]. **Alvarez N**, Thiel-Egenter C, IntraBioDiv Consortium (2008) Biogeographical history of Alpine plants: break zones and ecological drivers. NCCR International Conference on Plant Species Concepts and Evolution (in honour of the retirement of Philippe Küpfer). 30 January–1 February 2008. University of Neuchâtel, Neuchâtel, Switzerland.
- S15 [P6]. Burnier J, **Alvarez N**, Küpfer P (2008) Genetic structure and evolution of polyploidy in alpine plants: the case of *Ranunculus kuepferi* Greuter & Burdet. NCCR International Conference on Plant Species Concepts and Evolution (in honour of the retirement of Philippe Küpfer). 30 January–1 February 2008. University of Neuchâtel, Neuchâtel, Switzerland.
- S14 [C9]. Buerki S, Sanmartin I, **Alvarez N (2008)** Untangling the systematics of the soapberry family (Sapindaceae): supertrees, biogeography and character evolution. January 2008. Royal Botanic Gardens, Kew, United Kingdom.
- S13 [C8]. Buerki S, Sanmartin I, **Alvarez N (2007)** Comparative performance of the Supertree algorithms in large data sets: the case of the soapberry family (Sapindaceae). November 2007. Real Jardín Botánico, Madrid, Spain.
- S12 [C7]. Benrey B, Espindola A, **Alvarez N (2007)** Population and landscape genetics of a Mexican parasitoid. 10th European Workshop on Insect Parasitoids. 17-21 September 2007. Villa San Giovanni, Erice, Sicily, Italy.
- S11 [P5]. Born C, **Alvarez N**, Ossari S, Muloko N, McKey D, Wickings EJ, Hossaert-McKey M, Chevallier M-H (2007) The role of refugia in the intraspecific differentiation of *Aucoumea klaineana*

- (Burseraceae). 15-19 July 2007. Linking Tropical Biology with Human Dimensions, 2007 ATBC (Association for Tropical Biology and Conservation) Meeting. Colegio Primitivo de San Nicolás y Centro Cultural Universitario, Morelia , Mexico.
- S10 [P4]. Thiel-Egenter C, **Alvarez N**, Tribsch A, Holderegger R, Gugerli F (2006) Identification of Genetic Transition Zones in Multiple Alpine Plant Species. 23-24 November 2006. Biodiversity Conservation - From Genes to Habitats. Congress Center of Davos, Switzerland.
- S9 [P3]. Crida A, **Alvarez N**, Manel S, IntraBioDiv Consortium (2006) Looking for genetic boundaries using a wombling-based method: an application to the analysis of genetic diversity based on INTRABIODIV data. 23-24 November 2006. Biodiversity Conservation - From Genes to Habitats. Congress Center of Davos, Switzerland.
- S8 [C6]. Thiel-Egenter C, **Alvarez N**, Tribsch A, Holderegger R, Gugerli F, IntraBioDiv Consortium (2006) Identification of Phylogeographic Break Zones in Multiple Alpine Plant Species. 11-15 September 2006. 36th Annual Conference of the Ecological Society of Germany, Switzerland and Austria (GfÖ), Bremen, Germany.
- S7 [C5]. Jourdie V, **Alvarez N**, Turlings T (2006) Identification of parasitoid species using Polymerase Chain Reaction amplification and restriction enzyme digestion. 11-15 June 2006. 14th International Entomophagous Insects Workshop. Delaware University, Newark, USA.
- S6 [C4]. **Alvarez N**, Benrey B, Hossaert-McKey M (2005) Host plants and organization of diversity in phytophagous insects, from evolutionary radiations to population processes: focus on phylogeographic patterns and population structure of bruchid species associated with domesticated plants. November 2005. 1st DIVERSITAS Open Science Conference, Oaxaca, Mexico.
- S5 [C3]. **Alvarez N**, Hossaert-McKey M, Benrey B (2005) Host plants and organisation of diversity in phytophageous insects, from evolutionary radiations to population processes: the case of bruchid beetle genus *Acanthoscelides* Schilsky (Coleoptera). September 2005. 9th Evolutionary Biology Meeting, Marseille, France.
- S4 [C2]. **Alvarez N** (2003) Horizontal transfer of a mitochondrial gene between two bean bruchid species: reality or Science Fiction? October 2003. Seminar of the laboratory « Génôme, Interactions, Populations ». UPR 5000 CNRS, Montpellier, France.
- S3 [C1]. **Alvarez N** (2003) Mitochondrial transfer between different species of Coleoptera. May 2003. Seminar of the Population Biology Department, CEFE, UMR 9056 CNRS, Montpellier, France.
- S2 [P2]. Benrey B, Aebi A, **Alvarez N** (2003) Consequences of plant domestication on the ecology and genetics of tritrophic interactions: The case of beans, bruchids and their parasitoids. March 2003. Graduate School, NCCR, Neuchâtel, Switzerland.
- S1 [P1]. **Alvarez N**, Hossaert-McKey M, Benrey B (2003) Sibling species of bean beetles: genetic studies reveal a new evolutionary scenario. May 2003. Neuchâtel, Switzerland.

Symposia, Articles & Book chapters as a member of the IntraBioDiv consortium

- 9 [B1]. Tribsch A, Englisch T, Gugerli F, Holderegger R, Niklfeld H, Steinmann K, Thiel-Egenter C, Zimmermann NE, Taberlet P, **IntraBioDiv Consortium** (2010) Integrating data across biodiversity levels; the project IntraBioDiv. In Data Mining for Global Trends in Mountain Biodiversity (Spehn EM & Körner C, eds). CRC Press/Taylor and Francis, Boca Raton. pp. 89-105.
- 8 [A7]. Thiel-Egenter C, Holderegger R, Brodbeck S, **IntraBioDiv Consortium**, Gugerli F (2009) Concordant genetic breaks, identified by combining clustering and tessellation methods, in two co-distributed alpine plant species. **Molecular Ecology** 18: 4495-4507.
- 7 [A6]. Coldea G, Stoica I-A, Puscas M, Ursu T, Oprea A, **IntraBioDiv Consortium** (2009) Alpine-subalpine species richness of the Romanian Carpathians and the current conservation status of rare species. **Biodiversity and Conservation** 18: 1441-1458.
- 6 [A5]. Paun O, Schönswetter P, Winkler M, **IntraBioDiv Consortium**, Tribsch A (2008) Historical divergence vs contemporary gene flow: evolutionary history of the calcicole *Ranunculus alpestris* group (Ranunculaceae) in the European Alps and the Carpathians. **Molecular Ecology** 17: 4263-4275.

- 5 [A4]. Gugerli F, Englisch T, Niklfeld H, Tribsch A, Mirek Z, Ronikier M, Zimmermann NE, Holderegger R, Taberlet P, **IntraBioDiv Consortium (2008)** Relationships among levels of biodiversity and the relevance of intraspecific diversity in conservation – a project synopsis. **Perspectives in Plant Ecology, Evolution and Systematics** 10: 259-281.
- 4 [A3]. Mraz P, Gaudeul M., Gielly L, Choler P, Taberlet P, **IntraBioDiv Consortium (2007)** Genetic structure of *Hypochaeris uniflora* (Asteraceae) suggests vicariance in the Carpathians and rapid post-glacial colonization of the Alps from an eastern Alpine refugium. **Journal of Biogeography** 34: 2100-2114.
- 3 [A2]. Manel S, Berthoud F, Bellemain E, Gaudeul M, Luikart G, Swenson JE, Waits LP, Taberlet P, **IntraBioDiv Consortium (2007)** A new individual-based spatial approach for identifying genetic discontinuities in natural populations. **Molecular Ecology** 16: 2031-2043.
- 2 [A1]. Ehrich D, Gaudeul M, Assefa A, Koch M, Mummenhoff K, Nemomissa S, **IntraBioDiv Consortium, Brochmann C (2007)** Genetic consequences of Pleistocene range shifts: contrast between the Arctic, the Alps and the East African mountains. **Molecular Ecology** 16: 2542-2559.
- 1 [S1]. Final IntraBioDiv Symposium (**2006**) Held during the conference for Biodiversity Conservation - From Genes to Habitats. 22-24 November 2006. Davos, Switzerland.