

## PERSONAL INFORMATION

Name	<b>HAUFFE, Heidi Christine</b>
Titles	<b>BA Oxon</b> [Bachelor of Arts] <b>RhSch</b> [Rhodes' Scholar] <b>DPhil Oxon</b> [Doctor of Philosophy, University of Oxford] <b>ONB</b> [Italian National Biologists' Association]
Work Address	Biodiversity and Environment Research Group, Department of Biodiversity and Molecular Ecology, Research and Innovation Centre, Fondazione E. Mach, Via E. Mach 1, S. Michele all'Adige (TN), Italy
Home Address	24 Via Roma, 38016 Mezzocorona (TN), Italy
Telephone	work: +39-0461-615558; mobile+39-348-7263653
E-mail	heidi.hauffe@fmach.it
Nationality	Canadian, Italian
Date / Place of birth	18 February 1967 / LONDON, ONTARIO, CANADA
Status	Married with two children born 1997 and 1999

## CURRENT POSITION

	<b>Head: Department of Biodiversity and Molecular Ecology</b> (da 2011); <b>Leader: Biodiversity and Environment Research Group</b> (da 2011); <b>Researcher (Level R2)</b> (da 2009)
Employers:	Research and Innovation Centre, Fondazione Edmund Mach, Via Edmund Mach 1, S. Michele all'Adige (TN), Italy
Main interests:	Causes and effects of biodiversity loss and gain; effects of changes in the environment on biodiversity; effects of changes in biodiversity on ecosystems, communities and individuals; conservation genetics; effect of changes in host microbiome; molecular and evolutionary epidemiology and medicine; rodent-borne zoonoses; Ljungan virus biology; type 1 diabetes in rodents and humans

## SCIENTOMETRICS

N. peer-reviewed publications	<b>46</b> (plus 5 without IF, 3 submitted, 4+ in prep, 1 book, 4 book chapters; 105 oral presentations, 34 non-refereed articles and reports; 49 scientific posters)
IF total / mean (ISI)	134.371 / 3.476
N. /mean citations (ISI)	834 / 19.40
h-index (ISI)	<b>18.0</b>
Total EF as PI or equivalent (euro)	c. 1.600.000
Italian National Habilitation	Zoology and Anthropology (Level II)

## WORK EXPERIENCE (SCIENTIFIC RESEARCH)

- 2011-pres**      **Head: Department of Biodiversity and Molecular Ecology;**  
Leader: Biodiversity and Environment Research Group;  
Researcher (Level R2)  
Employers:      Research and Innovation Centre, Fondazione Edmund Mach, Via Edmund Mach 1, S. Michele all'Adige (TN), Italy  
Main interests:      Causes and effects of biodiversity loss and gain; effects of changes in the environment on biodiversity; effects of changes in biodiversity on ecosystems, communities and individuals; conservation genetics; effect of changes in host microbiome; molecular and evolutionary epidemiology and medicine; rodent-borne zoonoses; Ljungan virus biology; type 1 diabetes in rodents and humans
- 2009-2010**      **Researcher (Level R2)**  
Employers:      Environment and Natural Resources Area, Research and Innovation Centre, Fondazione Edmund Mach, Via Edmund Mach 1, S. Michele all'Adige (TN), Italy  
Main responsibilities:      Planning and execution of research projects on molecular epidemiology, ecohealth and population genetics, with focus on rodent-borne disease; data analysis, publication and presentation of results
- 1997-2009**      **Research scientist/ Team leader**  
Employers:      From 2008: Environment and Natural Resources Area, Research and Innovation Centre, Fondazione Edmund Mach, Via Edmund Mach 1, S. Michele all'Adige (TN), Italy  
From 1997-2007: Centro di Ecologia Alpina, 38040 Viote del Monte Bondone (TN), Italy and Research Fund of the Autonomous Province of Trento, Italy  
Job description:      Head of the Genetics Laboratory (1997-2004); Coordinator of Project FaunaGen: Wildlife conservation and management: a genetic approach (2001-2004); Researcher for the Wildlife Ecology and Epidemiology Group and Conservation Genetics Group (2005-present); Responsible for Ljungan virus project (2008-present)  
Main responsibilities:      Management of the genetics laboratory (2 doctorate students; 2 technicians) from 1997-2004; planning and execution of research projects on the following species: **chamois, roe deer, red deer, European brown hare, mountain hare, red squirrel, yellow-necked mouse, common shrew, Borrelia, Ehrlichia; TBE virus; Arenavirus, Ljungan virus**; purchase, use and maintenance of laboratory equipment and chemicals (1997-2000); optimization of laboratory techniques (1997-2000); data analysis, publication and presentation of results (1997-present); initiation and maintenance of collaborations (1997-present)
- 2007-2009**      **Post-doctoral research fellow (part-time)**  
Employers:      Jeremy B. Searle, Dept. of Biology, Univ. of York, PO Box 373, York, UK YO10 5YW  
Natural Environment Research Council, UK  
Project:      Chromosomal rearrangements as agents of race-formation and speciation  
Main responsibilities:      Planning and execution of all fieldwork; chromosome preparation in the field; data analyses; publication and presentation of results.
- 2005-2009**      **Senior researcher (part-time)**  
Employers:      Jaroslav Piálek, Academy of Sciences of the Czech Republic, Institute of Vertebrate Biology, Department of Population Biology, CZ-675 02 Studenec 122, Czech Republic  
Project:      Genetic study of speciation in wild **house mice**  
Main responsibilities:      data analyses; scientific and linguistic revision of manuscripts, publication and presentation of results.
- 1997-2002**      **Post-doctoral research fellow**  
Employers:      Jeremy B. Searle, Dept. of Biology, Univ. of York, PO Box 373, York, UK YO10 5YW  
Natural Environment Research Council, UK  
Project:      Speciation in the house mouse  
Main responsibilities:      Planning and execution of all fieldwork using mark-recapture techniques; fibroblast cell culture; data analyses; publication and presentation of results.

- 2000 (3 months)** **Visiting post-doctoral scientist**  
Employer: Janice Britton-Davidian, CNRS, University of Montpellier II, l'UMR 554, Montpellier, France  
Main responsibilities: Laboratory study of house mouse behaviour; cell culture and cytogenetic analysis
- 1993-1995** **Post-doctoral researcher**  
Employers: Prof. C. Redi, Dept. of Animal Biology, Univ. of Pavia, Piazza Botta 10, 27100 Pavia, Italy; Human Capability and Mobility Programme, Commission of the European Communities (Directorate General XII, Science, Research and Development).  
Project: A multidisciplinary approach to the study of speciation  
Main responsibilities: Field work: house mouse dispersal (2 years, Italy); laboratory work: DNA sequencing (6 mo., UK) ; publication and presentation of results.
- 1986** **Research assistant**  
Employer: Mary Seely, Desert Ecological Research Unit, Box 953, Walvis Bay, 9190 Namibia  
Main responsibilities: Computerization of reprint library; field research on tenebrionid **beetle** behaviour; meteorological data collection; field assistant; nature tour guide for adults and children.

## WORK EXPERIENCE (FREELANCE BIOLOGIST)

- 2006-2009** **Biologist (Project co-ordinator)**  
Employer: Wildlife Service, Province of Sondrio, Italy  
Project: Project for the creation of a genetic database for roe deer, red deer and chamois in the Province of Sondrio
- 2006** **Biologist**  
Employer: Legambiente Lombardia, Milan, Italy  
Project: NSV (Nuovi Sistemi Verdi): environmental education section
- 2006** **Biologist (Project co-ordinator)**  
Employer: Tirano Hunters Association, Via Italia 96, 23037 Tirano (SO), Italy  
Project: Habitat improvement project for Tetraonids, Mountain hare, European brown hare and ungulates in the Tirano Hunting Area
- 2004 and 2005** **Biologist**  
Employer: Provincial Police and Federal Magistrates  
Job description: Wildlife forensic DNA analysis (including sampling, analysis and report)
- 2000-2007** **Biologist**  
Employer: Tirano Hunters Association, Via Italia 96, 23037 Tirano (SO), Italy  
Job description: Hunting bag inspection centre  
Main responsibilities: Inspection of hunting bag (**mountain hare, European brown hare, black grouse, partridge, ptarmigan**); standard morphological measurements; sampling for genetic and parasitological analyses; maintenance of database; presentation of results.
- 1998-2000** **Biologist**  
Employer: Wildlife Service, Province of Sondrio, Italy  
Job description: Re-evaluation of the European brown hare breeding centre and wildlife refuge of the Province of Sondrio  
Main responsibilities: Organization and execution of the project (in collaboration with veterinarian); analysis of 10 years of breeding data; ethological research; radio-tracking; genetic analysis; definition of protocols for hospitalization, convalescence and release of injured and orphaned wildlife
- 1996** **Biologist**

Employer: Humberside Wastewise Waste Management Services Ltd, UK  
Job description: Assessment of a proposed waste disposal site: the insect study  
Main responsibilities: Classification of more than 20.000 **insects**; preparation of report

**1996** **Biologist**  
Employer: Wildlife Service, Province of Sondrio, Italy  
Main responsibilities: Raising, training and release of three **long-eared owl** chicks

**1994** **Biologist**  
Employer: MariaGrazia Cicardi-Raimondi, Studio of applied geology, Via Gavazzene, 23100 Sondrio, Italy; Consorzio Rifiuti Solidi Valtellina Alto Lario (SO)  
Job description: Assessment of proposed landfill site in Piana di Pedemonte: the **vertebrate** study  
Main responsibilities: Preparation of a checklist of all vertebrate species present in this wetland.

## WORK EXPERIENCE (TEACHING: LAST 5 YEARS)

- 2013-** **PhD Supervisor** - C Fevola (with A Vaheri, A Jaakelainen, Univ Helsinki, A SiAmmour, FEM). Funding: FIRST PhD School.
- 2013-** **PhD Co-supervisor** - E Pascoe (with: S Perkins, Univ. Cardiff). Funding: ECOBIOME and FIRST PhD School
- 2012-** **PhD Co-supervisor** - A Panziera. PhD Student all'UNIFE, Centro Interdipartimentale di Biologia Integrata il 26° ciclo della Scuola di Dottorato di Ricerca in Scienze Biomolecolari (with: G Bertorelle UNIFE). Funding: UNIFE and FIRST PhD School.
- 2011-** **PhD Co-supervisor** - M Grisenti. PhD in Animal ecology and epidemiology. Università di Torino. (with: A Rizzoli; M Giacobini (UNITO)). Finanziamento: FP7 EUROWESTNILE and FIRST PhD School
- 2011-** **PhD Supervisor - M Collini**. PhD in Biotechnology Applied to Veterinary Medicine, Univerisità di Milano, Italia (with M Mortarino UNIMI; Finanziamento: EU FP7 EDENext, FIRST PhD School.
- 2013-2015** **Supervisor** – 4 PTY (Erasmus) students, University of Cardiff and FEM
- 2014** **Naturalist and Guide**: Mezzocorona Library: initiative 'Estate Giovani': ARE ERE IRE CREARE LEGGERE SCOPRIRE alla torretta delle fiabe; 11 July 2014: scoprire la natura con i cinque sensi (3-5 anni); 16 July 2014: sulle tracce degli animali del bosco (7-13 anni)
- 2011-2014** **Supervisor** – 22 Stage: Univ. Cardiff, Univ Brno, Univ. Milano, Univ Padova, Liceo Scientifico Galileo Galilei, Liceo Prati, Liceo Rosmini, CIF, Fondazione E Mach, Ufficio di Collocamento (unemployment office, Trento)
- 2009-2013** **PhD Co-supervisor - L Cornetti** (with: C Vernesi, DBEM-GC; G Bertorelle UNIFE). Finanziamento: IPP-FEM.

## TRANSLATIONS (ITALIAN TO ENGLISH)

**1994-present** **Translation** of scientific and educational texts (Italian to English)  
Employers: Centro di Ecologia Alpina, Civic Museum of Natural History of Morbegno, Orobian Natural Park, Prisma Film, Lysis Edizioni, Cattaneo Paolo Grafiche s.r.l.; ERSAF

## EDUCATION AND TRAINING

- 2014** Horizon 2020: Management, rendicontazione e reporting, EU CORE, FEM (1 day)  
Corso per la guida in sicurezza dei mezzi fuoristrada e dei SUV, TSM, Trento (2 days)
- 2013** Project Management, TSM, Trento (1 day)  
Omnibus Manager, TSM, Trento (3 days)
- 2011-12** Dalla visione al risultato. Una bussola manageriale per traguardi di eccellenza: motivare e guidare i collaboratori, comunicare e gestire il tempo. Metaformazione. FEM (4 days)  
Il Lavoro di Gruppo, TSM, Trento (2 days)  
Delegare con Successo, TSM, Trento (1 day)
- 2010** Evolutionary Medicine (EPID788), Epidemiology Summer School (1 week)  
Public School of Health, University of Michigan, USA
- 2004-2005** Business course Tools for the Creation of an Innovative Business;  
INSEADonline Business courses: Managing People, Managing Yourself; Managing People,  
Managing Others  
Spinner Consortium, Bologna, Italia  
Agevolazioni Spinner: European Social Fund, Emilia-Romagna Regional Government
- 1998** **Advances in Molecular Ecology**, a NATO Advanced Study Institute  
Centro E. Majorana, Erice, Italy  
Travel grant: NATO
- 1989-1993** **DPhil: 'Robertsonian fusions and speciation in a house mouse hybrid zone'**  
Department of Zoology, University of Oxford, UK (Supervisor: Jeremy B. Searle)  
Scholarship: Rhodes Scholarship
- 1986-1989** **BA in Zoology with Anthropology (Classe: I)**  
New College and Dept of Zoology, University of Oxford, UK (Tutor: Richard Dawkins)  
Courses: Vertebrates, Invertebrates, Evolution and Taxonomy, Behaviour, Entomology, Ecology,  
Anthropology  
Thesis: Speciation in *Onymacris rugatipennis*, an adesmine tenebrionid from the Central Namib Desert - a multiple approach (Field Studies Prize, Dept. of Zoology, Univ. of Oxford)  
Scholarship: Grosvenor scholarship  
Prize: Field Studies Prize (Department of Zoology, University of Oxford)  
Study grants: New College, Royal Geographical Society, New York Explorer's Club, Canadian Women's Club

## LANGUAGES

MOTHER TONGUE      **ENGLISH**

OTHER LANGUAGES      **ITALIAN**  
Reading-writing-verbal skills      Excellent-very good-excellent

## COLLABORATIONS

**Numerous past and present international scientific collaborations (alphabetical order by country), e.g. CZ:** Academy of Sciences; **F:** INRA, Montpellier (and 40 other members of EDENext); **FIN:** Univ. of Helsinki; **Italia:** Civic Museum of Natural History, Morbegno; Hunters Association of the Autonomous Province of Trento; Istituto zooprofilattico di Trento and Sondrio; Hunters Associations of the Province of Sondrio; FBK, Trento; Natural Park Paneveggio-Pale di San Martino; Orobian Natural Park; Stelvio National Park; MUSE, Trento; Wildlife Service, Sondrio; Wildlife Service, Trento; Univ. of Ferrara; Univ. of Florence; Univ. of Milan; Univ. of Pavia; Univ. of Rome, University of Trento; **NOR:** Univ. di Oslo; **SL:** Univ. of Zalina; **SWE:** Apodemus AB; National Agricultural University of Sweden; **UK:** Natural History Museum, London, Univ. of Aberdeen, Univ. of York, Cardiff School of Biosciences (and 20 other members of CONGRESS); Animal Health and Veterinary Laboratories Agency; **USA:** Cornell University; PennState University; University of California at Berkeley, Public Institute of Health, CA, University of North Carolina

**Numerous oral presentations at international conferences:** see Appendix I

## REFERENCES

**Prof. Richard Dawkins**, New College, Oxford, OX1 3BN UK

**Prof. Jeremy B. Searle**, Dept. of Ecology and Evolutionary Biology, Cornell University, E420 Carson Hall, Ithaca, NY 14853-2701, USA

**Prof. Carlo Redi**, Dept. of Animal Biology, Univ. di Pavia, Piazza Botta 10, 27100 Pavia, Italia

## APPENDICES

I. REFEREED PUBLICATIONS

II. OUTREACH AND WORKSHOPS ORGANIZED

III. EXTERNAL FUNDING

IV. OTHER INDICATORS OF ESTEEM

V. ACADEMIC SPIN-OFF

## APPENDIX I: REFEREED PUBLICATIONS

### SCIENTIFIC ARTICLES\*

\*following each article: (IF=impact factor for that year)

1. **Hauffe**, H.C., R.D. Pietruszka and M.K. Seely 1988. Observations on the behaviour of the dune beetle *Onymacris laeviceps* Gebien (Col: Tenebrionidae, Adesmiini) in the central Namib Desert. *Journal of the Entomological Society of South Africa* 51: 183-192. (IF: n/a)
2. **Hauffe**, H.C. & Searle, J.B. 1992. A disappearing speciation event? *Nature* 357: 26. (IF: 22.139)
3. **Hauffe**, H.C. & Searle, J.B. 1993. Extreme karyotypic variation in a *Mus musculus domesticus* hybrid zone. The tobacco mouse story revisited. *Evolution* 47: 1374-1395. (IF: 2.76)
4. **Hauffe**, H.C., Searle, J.B. & Seely, M.K. 1994. The taxonomic status of two morphotypes of the tenebrionid *Onymacris rugatipennis* (Haag): indications from behavioural and genetical studies. *Journal of Zoology* 233: 193-201. (IF 0.77)
5. **Hauffe**, H.C. & Seely, M.K. 1995. The taxonomic status of two morphotypes of the tenebrionid *Onymacris rugatipennis* (Haag): indications from morphological, geographical and physiological studies. *Cimbebasia* 14: 85-97. (IF: n/a)
6. Fragedakis-Tsolis, S., **Hauffe**, H. C. & Searle, J. B. 1997. Genetic distinctiveness of a village population of house mice: relevance to speciation and chromosomal evolution. *Proceedings of the Royal Society of London Series B* 264: 355-360. (IF: 2.873)
7. **Hauffe**, H. C. & Piálek, J. 1997. Evolution of the chromosomal races of *Mus musculus domesticus* in the Rhaetian Alps: the roles of whole-arm reciprocal translocation and zonal raiation. *Biological Journal of the Linnean Society* 62: 255-278. (IF: 0.988)
8. **Hauffe**, H. C. & Searle, J. B. 1998. Chromosomal heterozygosity and fertility in house mice (*Mus musculus domesticus*) from Northern Italy. *Genetics* 150: 1143-1154. (IF: 4.450)
9. Piálek, J. and **Hauffe**, H.C., 1998. Zonal raiation: models and observations. *Z. Säugetierk.* 63 (Suppl.): 46. (IF: 0.189)
10. **Hauffe**, H. C., Piálek, J. & Searle, J. B. 2000. The house mouse chromosomal hybrid zone in Valtellina (SO): a summary of past and present research. *Hystrix* (n.s.) 11: 17-25. (IF: n/a)
11. Piálek, J., **Hauffe**, H. C., Rodríguez-Clark, K. M. & Searle, J. B. 2001. Raiation and speciation in house mice from the Alps: the role of chromosomes. *Molecular Ecology* 10(3): 613-625. (IF: 2.478)
12. Ward, R.G., **Hauffe**, H.C., Dallas, J.F. & Searle, J.B., 2001. Molecular analysis of chromosomal speciation (poster). 14th International Chromosome Conference, Würzburg, Germany, 4-8 September. *Chromosome Research* 9 (supplement 1), 117-118. (IF: 1.385)
13. **Hauffe**, H. C., Fragedakis-Tsolis, S. & Searle, J. B. 2002. Studies of mitochondrial DNA, allozyme and morphometric variation in a house mouse hybrid zone. *Genetical Research Cambridge* 80: 117-129. (IF: 2.244)
14. Vernesi, C., Crestanello, B., Pecchioli, E., Tartari, D., Caramelli, D., **Hauffe**, H. & Bertorelle, G. 2003. The genetic impact of population decline and reintroduction in the wild boar (*Sus scrofa*): a microsatellite analysis. *Molecular Ecology* 12: 585-595. (IF: 3.014)
15. Panithanarak, T., **Hauffe**, H. C., Dallas, J. F., Glover, A., Ward, R. G. & Searle, J. B. 2004. Linkage-dependent gene flow in a house mouse chromosomal hybrid zone. *Evolution* 58: 184-192. (IF: 3.883; Cited: 31)
16. Bertorelle, G., Bruford, M., Chemini, C., Vernesi, C., **Hauffe**, H. C. 2004. New, flexible Bayesian approaches to revolutionize conservation genetics. *Conservation Biology* 18: 1-2. (IF: 3.672; Cited: 5)
17. Rizzoli A, Rosa R, Mantelli B, Pecchioli E, **Hauffe** H, Tagliapietra V, Beninati T, Neteler M., Genchi C. 2004. *Ixodes ricinus*, transmitted diseases and reservoirs. *Parassitologia* 46: 119-122. (IF: n/a)
18. **Hauffe**, H. C., Panithanarak, T., Dallas, J. F., Piálek, J., Gündüz, I. & Searle, J. B. 2004. The tobacco mouse and its relatives: a 'tail' of coat colours, chromosomes, hybridisation and speciation. *Cytogenetic and Genome Research: "Mouse genetics after the mouse genome"* 105: 395-405. (IF: 1.341)
19. Piálek, J., **Hauffe**, H. C. & Searle, J. B. 2005. Chromosomal variation in the house mouse: a review. *Biological Journal of the Linnaen Society* 84: 535-563. (IF: 2.261)
20. Pocock, M. J. O., **Hauffe**, H. C. & Searle, J. B. 2005. Dispersal in house mice. *Biological Journal of the Linnaen Society* 84: 565-583. (IF: 2.261)
21. Trizio, I, Crestanello, B., Galbusera, P., Wauters, L.A., Tosi, G., Matthysen, E. and **Hauffe**, H.C. 2005. Geographical

- distance and physical barriers shape the genetic structure of Eurasian red squirrels (*Sciurus vulgaris*) in the Italian Alps. *Molecular Ecology* 14: 469-481. (IF: 4.301)
22. Mantelli, B., Pecchioli, E., **Hauffe**, H. C., Rosà, R. and Rizzoli, A. 2006. Prevalence of *Borrelia burgdorferi* s.l. and *Anaplasma phagocytophilum* in the wood tick *Ixodes ricinus* in Trentino, Italy. *European Journal of Clinical Microbiology and Infectious Diseases* 25: 737-739. (IF: 2.330)
  23. Pecchioli, E., **Hauffe**, H. C., Tagliapietra, V., Bandi, C., Chemini, C., Genchi, C. & Rizzoli, A. 2007. *Borrelia* genospecies isolated from the tick *Ixodes ricinus* in the Autonomous Province of Trento, Italy. *International Journal of Medical Microbiology* 297: 53-59. (IF: 2.760)
  24. Piálek J., Vyskoilová M., Bimová B., Havelková D., Piálková J, Dufková P., Bencová V., Dureje L., Albrecht T., **Hauffe** H. C., Macholán M., Munclinger P., Storchová R., Zajícová A., Holán V., Gregorová S., Forejt J. 2008. Development of unique house mouse resources suitable for evolutionary studies of speciation. *Journal of Heredity* 99: 33-44. (IF: 1.775)
  25. Vernesi C., Bruford M. W., Bertorelle G., Pecchioli E., Rizzoli A., **Hauffe** H. C. 2008. Where's the conservation in conservation genetics? *Conservation Biology* 22: 802-804. (IF: 4.705)
  26. Fickel J., **Hauffe** H. C., Pecchioli E., Soriguer R., Vapa L., Pitra C. 2008. Cladogenesis of the European brown hare (*Lepus europaeus* Pallas, 1778). *European Journal of Wildlife Research* 54: 495-510. (IF: 1.543)
  27. Fontanesi L, Tazzoli M, Peccioli E, **Hauffe** HC, Robinson TJ, Russo V. 2008. Sexing European rabbits (*Oryctolagus cuniculus*), European brown hares (*Lepus europeaus*) and mountain hares (*Lepus timidus*) with ZFX and ZFY loci. *Molecular Ecology Resources* 8: 1294-1296. (IF: 1.257)
  28. Rizzoli, A., **Hauffe**, H.C., Tagliapietra, V., Neteler, M., Rosà , R. 2009. Forest structure and roe deer abundance predict tick-borne encephalitis risk in Italy. *PLoS ONE* 4: e4336. doi:10.1371/journal.pone.0004336. (IF: 4.351).
  29. Crestanello B., Pecchioli E., Vernesi C., Martinková N., Janiga M., **Hauffe** H. C., Bertorelle G. 2009. The genetic impact of translocations and habitat fragmentation in the chamois (*Rupicapra* spp.). *Journal of Heredity* 100: 691-708. (IF: 2.052).
  30. Tagliapietra, V., Rosà, R. **Hauffe**, H.C., Laakkonen, J., Voutilainen, L., Vapalahti, O., Vaheri, A., Henttonen, H., Rizzoli A. 2009. Spatial and temporal dynamics of lymphocytic choriomeningitis virus (family Arenaviridae, genus Arenavirus) in wild rodents in Northern Italy. *Emerging Infectious Diseases* 15: 1019-1025. (IF: 6.794).
  31. Burt, G., **Hauffe**, H. C., Searle, J. B. 2009. New metacentric population of the house mouse (*Mus musculus domesticus*) found in Valchiavenna, northern Italy. *Cytogenetic and Genome Research* 125: 260-265 (DOI:10.1159/000235931)) (IF: 1.729)
  32. **Hauffe**, H.C., Niklasson, B., Olsson, T., Bianchi, A., Rizzoli A., Klitz, W. 2010. Ljungan virus detected in bank voles (*Myodes glareolus*) and yellow-necked mice (*Apodemus flavicollis*) from northern Italy. *Journal of Wildlife Diseases* 46:262-266. (IF: 1.373)
  33. **Hauffe**, H.C., Giménez, M.G., Garagna, S., Searle, J.B. 2010. First wild XXY house mice. *Chromosome Research* 18: 599-604. (IF: 3.230)
  34. Gündüz, I., Pollock, C.L., Giménez, M.G., Förster, D.W., White, T.A., Sans-Fuentes, M.A., **Hauffe**, H.C., Ventura, J., López-Fuster, M.J., Searle, J.B. 2010. Staggered Chromosomal hybrid zones in the house mouse: relevance to reticulate evolution and speciation. *Genes* 1:193-209; doi:10.3390/genes1020193. (IF: n/a)
  35. **Hauffe**, H.C., Giménez, M.D., Vega, R., White, T.A. & Searle, J.B., 2011. Properties of a hybrid zone between highly distinct chromosomal races of the house mouse (*Mus musculus domesticus*) in Northern Italy, and comparisons with other hybrid zones. *Cytogenetic and Genome Research* 34: 191-199 (IF: 1.729)
  36. Rizzoli\* A, **Hauffe**\* HC, Carpi G, Vourc'h GI, Neteler M, Rosà R. Lyme borreliosis in Europe. 2011. *Euro Surveillance* 16(27):pii=19906. \*Contributed equally. (IF: 6.153)
  37. Tagliapietra V, Rosà R, Arnoldi D, Cagnacci F, Capelli G, Montarsi F, **Hauffe** HC, Rizzoli A. 2011. Saturation deficit and deer density affect questing activity and local abundance of *Ixodes ricinus* (Acari, Ixodidae) in Italy. *Veterinary Parasitology* 183(1-2):114-124. (doi:10.1016/j.vetpar.2011.07.022) (IF: 2.331)
  38. Yannic G, Pellissier L, Dubey S, Vega R, Basset P, Mazzotti S, Pecchioli E, Vernesi C, **Hauffe** HC, Searle JB, Hausser J. 2012. Multiple refugia and barriers explain the phylogeography of the Valais shrew, *Sorex antinorii*. *Biological Journal of the Linnean Society* 105:864-880. (IF: 2.413)
  39. Cagnacci F, Bolzoni L, Rosà R, Carpi G, **Hauffe** HC, Valent M, Tagliapietra V, Kazimirova M, Koci J, Stanko M, Lukan M, Henttonen H, Rizzoli A. 2012. Effects of deer density on tick infestation of rodents and TBE hazard. Part I: empirical assessment. *International Journal for Parasitology* 42:365-372. (IF: 3.637)
  40. Wasimuddin, Čížková D, Bryja J, Albrechtová J, **Hauffe** HC, Piálek J. 2012. High prevalence and species diversity of *Helicobacter* detected in wild house mice. *Applied and Environmental Microbiology* 78(22): 8158. (IF: 3.678)



41. Hoban S, Gaggiotti O, ConGRESS Consortium, Bertorelle G. 2013. Sample Planning Optimization Tool for conservation and population Genetics (SPOTG): a software for choosing the appropriate number of markers and samples. *Methods in Ecology and Evolution* 4(3):299-303. doi: 10.1111/2041-210x.12025 (IF: 5.924).
42. Giménez MD, White TA, **Hauffe** HC, Panithanarak T, Searle JB. 2013. Understanding the basis of diminished gene flow between hybridizing chromosome races of the house mouse. *Evolution* 67-5:1446–1462. (IF: 4.864)
43. Hoban S, **Hauffe** HC, Perez Espona S, Bertorelle G, Gaggiotti O, Galbusera P, Nichols R, Primmer C, Segelbacher G, Siegismund H, Sihvonen M, Vilà C, the ConGRESS Consortium, Bruford MW. 2013. Bringing genetic diversity to the forefront of conservation policy and management. *Conservation Genetics Resources* 5:593-598. (IF: 0.708)
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52. Collini M, Albonico A, Hauffe HC, Mortarino M. Identifying the last blood meal of questing wood ticks (*Ixodes ricinus* L.) using High Resolution Melting Analysis (HRMA). *Veterinary Parasitology* (accepted with moderate revisions).
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54. Giménez MD, Panithanarak T, Hauffe\* HC, Searle\* JB. Empirical demonstration of hybrid chromosomal races in mice. (submitted to *Evolution*). (IF 2012: 4.864)
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56. Barelli, C. Albanese, D. Pindo, M. Donati, C. Cavalieri, D. **Hauffe**, H. C. Tuohy, K & De Filippo, C. Environmental effects on gut microbiota profiles of tropical non-human primates. (to be submitted to *PNAS*).
57. **Hauffe** HC, Rosà R, Franchini S, Tagliapietra V, Rizzoli A, Piffer S. Number of new cases of type 1 diabetes are correlated with long-term cycles in rodent density with a five-month lag, in the Province of Trento, Italy. (to be submitted to *The Lancet*)
58. Bastien G, Kreisinger J, Pascoe E, **Hauffe** H, Perkins S Composition of the gut microbiota of the yellow-necked mouse (to be submitted to *ISME*).
59. Fevola C, Rossi C, Hörnfeldt B, Ecke F, Olsson G, Magnusson M, Miller A, Nordström A, Henttonen H, Niemimaa J, **Hauffe**. HC. Distribution of Ljungan virus in Fennoscandia. (to be submitted to *Journal of Wildlife Diseases*).
60. Pascoe EL, **Hauffe** HC, Marchesi J, Perkins SE. Animals in gut microbiota studies: A review. (in prep)

## BOOKS (REFEREED)

Bertorelle G., Bruford M. W., Rizzoli A., **Hauffe** H. C., Vernesi C. (eds.) 2009. *Population Genetics for Animal Conservation*. Cambridge University Press. 395 pp.

**REVIEWED IN:** Hedrick, P. 2009. Conservation genetics: a European view. *Trends in Ecology and Evolution* 25:65.

## BOOK CHAPTERS (REFEREED)

1. **Hauffe** H. C., Sbordoni V. 2009. Introduction. In: Bertorelle G., Bruford M. W., Rizzoli A., **Hauffe** H. C., Vernesi C. (eds.) *Population Genetics for Animal Conservation*. Cambridge University Press. pp.1-21.
2. Bertorelle G., Papetti C., **Hauffe** H. C., Boitani L. 2009. Monitoring and detecting translocations using genetic data. In: Bertorelle G., Bruford M. W., Rizzoli A., **Hauffe** H. C., Vernesi C. (eds.) *Population Genetics for Animal Conservation*. Cambridge University Press. pp. 148-166.
3. **Hauffe**, H.C., Giménez, M.D. & Searle, J.B. 2012. Chromosomal hybrid zones in the house mouse. In: Macholan M, Baird SJE, Munclinger P, Pialek J., eds. *Evolution of the House Mouse*. Cambridge Series in Morphology and Molecules. Cambridge University Press, Cambridge. Pp. 407-430. ISBN-10: 0521760666.
4. Rocchini D, Balkhenol N, Delucchi L, Ghisla A, **Hauffe** HC, Imre AR, Jordán F, Nagendra H, Neale D, Ricotta C, Varotto C, Vernesi C, Wegmann M, Wohlgemuth T, Neteler M. 2012. Spatial algorithms applied to landscape diversity estimate from remote sensing data. In: Jordan F, Jorgensen S (eds.). *Models of the ecological hierarchy from molecules to the ecosphere*. Elsevier.

## APPENDIX II: OUTREACH AND WORKSHOPS ORGANIZED

### OUTREACH (PLUS 37 LOCAL NEWSPAPER ARTICLES; 6 RADIO INTERVIEWS)

**Hauffe** HC. Sulle tracce degli animali. Porte Aperte alla Fondazione Edmund Mach. San Michele all'Adige, 20 novembre 2011.

Ometto L, **Hauffe** HC. Non basta essere geni: l'evoluzione e la conservazione della biodiversità raccontate dalla genetica. Porte Aperte alla Fondazione Edmund Mach. San Michele all'Adige, 20 novembre 2011.

**Hauffe**, H.C. La rappresentanza di genere nell'economia e nel lavoro: Donne e scienza. Staffetta di Idee e Proposte. Trento, Italy. 31 March 2012 (invited).

**Hauffe** HC. Organized the exchange of work experience students between DBEM e l'IASMA e il Liceo Scientifico Galileo Galilei. Oral presentations 14 May 2012 and 24 May 2012

**Hauffe** HC. La Notte dei Ricercatori. Invita un ricercatore a cena. Participation: 27 September 2013

**Hauffe** HC. *Ecofiere*: Fondazione E Mach. La biodiversità dietro casa... Impariamo a ri-conoscerla! (with M Collini, F Ossi, U Obertegger). 28.100 visitors, 4 newspaper articles. October 3-6 2013

**Hauffe** HC. Biodiversità alla FEM. Porte Aperte alla Fondazione Edmund Mach. San Michele all'Adige. 13 aprile 2014. (collaboration between CIF and CRI).

**Hauffe** HC. Organized the exchange of work experience students between DBEM e l'IASMA. Oral presentations 9 May 2014.

**Hauffe** HC. Organized the Ecology course for 4<sup>th</sup> year Professional School students (IASMA). Fondazione E. Mach. Introductory seminar 29 May 2014.

## NATIONAL AND INTERNATIONAL WORKSHOPS ORGANIZED

1995: **Symposium on Chromosome variation and evolution**, 4th Congress of the European Society for Evolutionary Biology, Montpellier, France (Chairperson with Dr. J. Searle)

2003: **International Workshop Population Genetics for Animal Conservation**, 3-7 September, 2003, Centro di Ecologia Alpina, Italy (in collaboration with the Univ. Ferrara)

2003: **Convegno nazionale sulla lepre variabile**, 27 May 2003, Centro di Ecologia Alpina, Italy

2004: **Convengo nazionale sul cinghiale**, 8 June 2004, Centro di Ecologia Alpina (in collaboration with the INFS)

2007: **International Workshop Population Genetics for Animal Conservation II'**, 6-8 September, 2007, Centro di Ecologia Alpina, Italy (in collaboration with the Univ. Ferrara)

2008: **First meeting of the EU ConGen Consortium: development of the CGToolBox and exploring the genomic approach to conservation genetics**, 28 October 2008, Centro di Ecologia Alpina, Italy (co-funded by the European Science Foundation and The Edmund Mach Foundation)

2011: **Midterm meeting of the EU FP7 Project CONgress**. Sardagna (TN), Italy.

2013: **Symposium Chair: Host microbe interactions: invertebrate vectors**. International Workshop and Winter School of FIRST Phd Programme. "Symbiomes: systems metagenomics of host microbe interactions" (Organizer: D Cavalieri).

2013: **Symposium Organizer and Chair: Evolutionary Medicine And Health**. V Congress of the Italian Society of Evolutionary Biology. 28 August 2013 (with C DeFilippo).

2013: **Symposium Organizer and Chair**. Conservation Genetics. XVII Convegno italiano di ornitologia, Trento. 13 September 2013 (with C Vernesi).

2014: **Symposium Organizer and Chair**. Rodents as hosts and vectors. Rodens et Spatium. Lisbon, Portugal. 26 July 2014 (with A Konecny).

## APPENDIX III: EXTERNAL FUNDING RECEIVED

2015-2017	Co-PI	<b>The role of macroPARAsite COinfection in Rodent-borne microparasite Transmission (PARACORT).</b> H2020 MSCA Standard EF. (PI: J Lello, University of Cardiff). FEM host. Euro: 113.000 for FEM.
2014-2015	FEM team member, small mammal sampling	<b>Epidemiology and ecosystem studies of mycobacteria in Italy: M. bovis, M. avium subsp. paratuberculosis, M. microti</b> Progetto di ricerca con l'Istituto Zooprofilattico di Brescia (bando dedicato agli IZS nazionali) (PI: Annapaola Rizzoli). Euro 10.000
2014	Partner, rodent virus screening and epidemiology	<b>Mass mortality of wood lemmings (Myopus schisticolor): Securing evidence, and identifying potential causes and implications for public health (MASS)</b> FORMAS Urgent grants (PI: E. Frauke, SLU, Umea, SWE). Euro 9.500.
2014	External Expert	<b>Climate change and conifer die off: impacts on biodiversity and human health</b> Atkinson Centre Academic Venture Fund 2014 (PI: JB Searle, Univ. Cornell, USA). \$106.000
2013-2016	FEM team member, vector genomics	<b>Laboratory of Excellence for Epidemiology and Modelling. Facing the introduction and spread of Invasive Alien Species (IAS) into the territory of the Autonomous Province of Trento (LEXEM)</b> PAT. Bando Grandi Progetti 2012. (PI: Annapaola Rizzoli). Euro 466.000
2013-2016	Co-WP4 leader and project writer	<b>METAFOODBOOK-ENVI: computational metagenomics of food borne microbial networks. PAT Grandi Progetti.</b> PAT Grandi Progetti (PI: D Cavaliere) Euro 200.000 (WP4 with M Falcone, San Raffaele, Milano)
2011-	FEM team member, vector genomics	<b>Aedes albopictus in northern Italy: molecular markers and mathematical models to predict its potential future spread (AEDESPREAD).</b> Ministero della Salute. (PI: Annapaola Rizzoli). Euro 43.000
2012-2015	Co-PI	<b>'Worms and germs': an ecological approach to understanding how gut bacteria (microbiome) interact with the parasitic helminths (macrobiome). (ECOBIOME)</b> PAT Incoming Team (first project on reserve list) (Co-PI: Sarah Perkins). Euro 594.000
2011	PI	<b>Rodent-borne Ljungan virus in migrating Norwegian lemmings (Lemmus lemmus).</b> FP7 INTERACT Trans-National Access program INTERACT: International Network for Terrestrial Research and Monitoring in the Arctic PI: Heidi C. Hauffe Euro: 1.164 (travel grant)
2011-2014	WP TBD Discussion Group 4 Leader (Tick population genetics)	<b>EDENext: Biology and control of vector-borne infections in Europe</b> FP7-HEALTH-2010.2.3.3-1: Collaborative Project (large-scale integrating project) Coordinator: R. Lancelot, INRA, F WP TBD Leader: A Rizzoli. Euro 134.019 (tick population genetics only) plus 10.000 euro for consumables for FIRST PhD C Fevola
2011-2013	FEM team member	<b>EUROWESTNILE</b> FP7-HEALTH-2010.2.3.3-3: Integrated disease-specific research on West Nile Virus. Scientific Coordinator: A. Rizzoli, FEM, I
2010-2013	Scientific Co-ordinator	<b>ROCOALPS: Rodent communities in a changing environment: implications for human health in the Alps</b> PAT Incoming Post-doc 2009 Call: Adam Konecny. Euro 149.000
2010-2013	WP workshops Co-coordinator	<b>CONGRESS: Conservation Genetic Resources for Effective Species Survival</b> FP7-ENV.2009.5.1.0.2: Knowledge transfer and uptake of EU-research results Coordinator: MW Bruford, Cardiff, UK WP workshops co-ordinator: C. Vernesi Euro 75.000
2008	Coordinator	<b>First meeting of the EU ConGen Consortium: development of the CGToolBox and exploring the genomic approach to conservation genetics</b> European Science Foundation. Euro 7.500

2008-2012	<b>Named Researcher</b> (from 2009: Participant)	<b>Immunogenetic study of a house mouse hybrid zone</b> Grant Agency of the Academy of Sciences of the Czech Republic IAX00930801. <b>Euro 1.594.920</b>
2007-2010	<b>Co-PI</b> (from 2009: Collaborator)	<b>Genetic study of speciation in wild house mice</b> Natural Environment Research Council, UK Je-SRP1. <b>£315.920</b>
2006-2008	<b>Named Senior Researcher</b>	<b>Genetic study of speciation in wild house mice</b> Czech Science Foundation 206/06/0955. <b>Euro 151.650</b>
2006	<b>Coordinator</b>	<b>Progetto di miglioramento ambientale per la tipica alpina, la lepre europea e gli ungulati del Comprensorio Alpino di Tirano</b> Comprensorio Alpino di Tirano. <b>Euro 10.800</b>
2005-2010	<b>Team member</b>	<b>EDEN: Emerging Diseases in a Changing European Environment</b> FP6- GOCE-CT-2003-010284: Integrated Project priority 6.3: Global Change and Ecosystems Project Co-ordinator: Renaud Lancelot, INRA
2005-2009	<b>Scientific Coordinator</b>	<b>Progetto per la creazione di una banca dati genetica per il capriolo, il cervo e il camoscio in Provincia di Sondrio.</b> Provincia di Sondrio. Euro 36.000
2005-2008	<b>Named Senior Researcher</b>	<b>Behavioural and genetic study of prezygotic isolation barriers in the house mouse hybrid zone</b> Academy of Sciences of the Czech Republic IAA600930506. <b>Euro 170.650</b>
2004	<b>Partner</b>	<b>Project GENNIFER</b> European Social Fund, Emilia-Romagna Regional Government (Agevolazioni Spinner). <b>Euro c. 5.000 (personal funding)</b>
2001-2004	<b>Scientific Coordinator</b>	<b>Project FAUNAGEN: Conservazione e gestione della fauna: un approccio genetico</b> Research Fund of the Autonomous Province of Trento, I. <b>Euro 161.452</b>
1999	<b>Coordinator</b>	<b>Progetto di ricerca sull'ecologia dello sciottolo rosso in tipici ambienti alpini</b> Provincia di Sondrio. <b>Lire 5.000.000</b>
1998-2000	<b>Coordinator</b>	<b>Incarico per attuazione progetto di ricerca e di ristrutturazione del Centro d Allevamento ed Assistenza Selvaggina di proprietà dell'Amministrazione Provinciale, ubicato in località San Rocco del Comune di Ponte in Valtellina</b> Provincia di Sondrio. <b>Lire 160.000.000</b>
1997-2002	<b>Named Post-doc</b>	<b>Speciation in the house mouse.</b> Natural Environment Research Council, UK <b>£205.166</b>
1995-1993	<b>Named Post-doc</b>	<b>A multidisciplinary approach to the study of speciation</b> Human Capability and Mobility Programme, Commission of the European Communities (DG XII, Science, Research and Development). Contract no. ERBCHRXC930192. <b>£180.000</b>

\*as coordinator, co-investigator, scientific coordinator and partner, I wrote or co-authored the project and had budget control or decision privileges; as named senior researcher or named post-doc, I co-authored the project and my inclusion helped the project to gain funding.

## **INTERNAL COMPETITIVE FUNDING CONFIRMED**

2012-2016	Co-supervisor with A. Si Ammour	<b>The role of microRNAs in Ljungan virus infection</b> FIRST PhD Programme: PhD Fellowship Student: C Fevola accepted at University of Helsinki <b>Euro 120.000</b>
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## APPENDIX IV: OTHER INDICATORS OF ESTEEM

### SCHOLARSHIPS AND GRANTS AWARDED

- 1986 **Ontario Scholar**
- 1987 **Grosvenor Scholarship** (New College)
- 1988 **Henrietta Hutton Memorial Travel Award** (Royal Geographical Society)  
**Explorer's Club Travel Grant** (New York)  
**Canadian Centennial Scholarship** (Canadian Women's Club)  
**Helen Langstaff Award** (Canadian Women's Club)
- 1989 **Rhodes Scholarship** (The Rhodes Trust)  
**Field Studies Prize** (Department of Zoology, Oxford)

### OFFICES HELD (LAST 5 YEARS)

- 1995- Comitato Scientifico, Il Naturalista Valtellinese, Atti del Museo Civico di Storia Naturale di Morbegno
- 2012 **Expert Member**. UNIFE Commissione Esame Ammissione. 26° ciclo della Scuola di Dottorato di Ricerca in Scienze Biomolecolari. 22.9.2012.
- 2012 **Presidente commissione concorso pubblico**: Vertebrati, Invertebrati, Paleontologia (3 posti a tempo indeterminato). Museo dell Scienze di Trento.
- 2012 **Member** of working group designing the Palazzina Ambiente, FEM.
- 2012 **Co-author** Tavolo Ambiente: Sottotavolo Biodiversità. (Co-ordinated by F. Miglietta F, FEM)
- 2013 **Member**: Comitato per la valutazione dei Piani Triennali di Attività, dei Progetti Bandiera e Progetti di Interesse (Decreto Direttoriale n. 214 del 7/02/2013), **MIUR**, Roma.
- 2013 **External Expert** invited to the Harmonizing Global Biodiversity Modelling (HarmBio) Meeting (ESSEM COST Action ES1101), Dublin, Ireland 13-15 May 2013.
- 2014- **External Expert** on the Comitato Provinciale per l'Ambiente. Autonomous Province of Trento.
- 2014 **Presidente commissione d'esame** for two ESR positions on the Native Seed Science, Technology and Conservation (NASSTEC) ITN, MUSE, Trento. 24-25 June 2014.

### CONCORSI

- 2001 Concorso pubblico per titoli ed esami per la copertura di un posto vacante di Dirigente ufficio periferico – Comitato di gestione per la Regione Lombardia, Parco Nazionale dello Stelvio. **Posizione finale in graduatoria: 2**

## APPENDIX V: ACADEMIC SPIN-OFF

### NGB GENETICS S.R.L

**NGB Genetics s.r.l** was established as a spin off of the University of Ferrara in 2006.

I was one of the original partners and was active in setting up the company, but sold off my share in 2008.