

Sébastien CALVIGNAC-SPENCER

Born on May 5th, 1981 in Montauban, France

Married, two children

Robert Koch-Institut

Emerging Zoonoses group

Nordufer 20

13353 Berlin

Germany

calvignacs@rki.de

<http://www.sebastien-calvignac.fr>

Academic training

- 2007 (Nov.) Ph.D.** in Molecular Evolution
Ecole Normale Supérieure de Lyon (France)
Title: [From ancient sequence identification to their use: ancient DNA studies of brown bear populations and simian retroviruses]
Supervisor: D^r Catherine Hänni
- 2004 D.E.A.** de Biologie Moléculaire Intégrée et Cognitive
Université Claude Bernard (Lyon, France)
Title: [Origin of North African brown bears]
Supervisor: D^r Catherine Hänni
- 2003 Maîtrise** de Biologie Cellulaire et Physiologie
Université Paul Sabatier (Toulouse, France)
Funded by the Ecole Spéciale Militaire de Saint-Cyr, France (officer school)
- 2002 Licence** de Biologie Cellulaire et Physiologie
Université Paul Sabatier (Toulouse, France)
- 2001 DEUG** de Sciences de la Vie
Université Paul Sabatier (Toulouse, France)
- 1998 Baccalauréat** Scientifique

Research experience

- Now Post-doctoral fellow**
Robert Koch-Institut (Berlin, Germany)
Theme: viral evolution in wild great apes, with a particular focus on retroviruses and polyomaviruses
Supervisor: D^r Fabian H. Leendertz

- 2008-2010 Temporary assistant professor (18 months)**
Université Claude Bernard (Lyon, France)
Theme: identification of nuclear mitochondrial paralogs; determination of the molecular bases of the adaptation to subterranean environments in *Asellota* (Crustacea)
Supervisor: P^r Christophe J. Douady
- 2004-2007 Ph.D. candidate**
Ecole Normale Supérieure de Lyon (France)
Themes: characterization of the mitochondrial diversity of two extinct sub-species of brown bear (*Ursus arctos*); assessment of the feasibility of paleoretrovirological studies
Supervisor: D^r Catherine Hänni
- 2003 Trainee**
Université Paul Sabatier (Toulouse, France)
Theme: study of the immunomodulative properties of the HCV Core protein
Supervisor: D^r Bernard Pipy

Teaching experience

COURSES GIVEN AT ROBERT KOCH-INSTITUT

- Phylogenetic analyses (doctoral students, 10 hours, 2011)

COURSES GIVEN IN HIGH SCHOOLS

- Organismal biology (undergraduate students, 102 hours, 2008/2009)
- Sustainable development (undergraduate students, 10 hours, 2008/2009)

COURSES GIVEN IN HIGH SCHOOLS

- Introduction to the use of molecular biology tools in forensics (2004 to 2007)
- Mathematics, physics, chemistry and life sciences private lessons (1999 to 2004)

Other professional experience

- Selected as a student officer at the Ecole Spéciale Militaire de Saint-Cyr (2002/2003)
- Laboratory assistant in a French vineyard (Fronton, France, summer 2002)

Peer-reviewed articles

RESEARCH ARTICLES (MEAN IF₂₀₀₉: 5.00)

1. Scuda, N., Hofmann, J., **Calvignac-Spencer, S.**, Ruprecht, K., Liman, P., Kühn, J., Hengel, H., Ehlers, B. A novel human polyomavirus closely related to the African green monkey-derived lymphotropic polyomavirus (LPV). *Journal of Virology*, e-pub

ahead of print on Feb. 9th, 2011.

2. **Calvignac, S.**, Konecny, L., Malard, F., Douady, C.J. **2011**. Preventing the pollution of mitochondrial datasets with nuclear mitochondrial paralogs (*numts*). *Mitochondrion*, 11 (2): 246-54.
3. Leendertz, F.H., Scuda, N., Cameron, K.N., Kidega, T., Zuberbühler, K., Leendertz, S.A.J., Couacy-Hymann, E., Boesch, C., **Calvignac, S.**, Ehlers, B. **2011**. African great apes are naturally infected with polyomaviruses closely related to Merkel cell polyomavirus. *Journal of Virology*, 85 (2): 916-24.
4. Leendertz, S.A.J., Junglen, S., Hedemann, C., Goffe, A., **Calvignac, S.**, Boesch, C., Leendertz, F.H. **2010**. High prevalence, coinfection rate and genetic diversity of retroviruses in wild red colobus monkeys (*Ptilocolobus badius badius*) in Tai National Park, Côte d'Ivoire. *Journal of Virology*, 84 (15): 7427-36.
5. **Calvignac, S.**, Terme, J.M., Duc Dodon, M., Gazzolo, L., Jordan, A. **2009**. E box motifs as mediators of proviral latency of human retroviruses. *Retrovirology*, 6: 81.
6. **Calvignac, S.**, Hughes, S. and Hänni, C. **2009**. Genetic diversity of endangered brown bear (*Ursus arctos*) populations at the crossroads of Europe, Asia and Africa. *Diversity and Distributions*, 15:742-50.
7. Orlando, L., **Calvignac, S.**, Schnebelen, C., Douady, C.J., Godfrey, L.R. and Hänni, C. **2008**. DNA from extinct giant lemurs links archaeolemurids to extant indriids. *BMC Evolutionary Biology*, 8:121.
8. **Calvignac, S.**, Terme, J.M., Hensley, S., Jalinot, P., Greenwood, A.D., Hänni, C. **2008**. Ancient DNA identification of early 20th century simian T-cell leukemia virus type 1 (STLV-1). *Molecular Biology and Evolution*, 25 (6): 1093-8.
9. **Calvignac, S.**, Hughes, S., Tougard, C., Michaux, J., Thévenot, M., Philippe, M., Hamdine, W. and Hänni, C. **2008**. Ancient DNA evidence for the loss of a highly divergent brown bear clade during historical times. *Molecular Ecology*, 17(8): 1962-70.
10. Pagès, M., **Calvignac, S.**, Klein, C., Paris M., Hughes S. and Hänni, C. **2008**. Combined analysis of fourteen nuclear genes refines the *Ursidae* phylogeny. *Molecular Phylogenetics and Evolution*, 47 (1): 73-83.
11. Orlando, L., Pagès, M., **Calvignac, S.**, Hughes, S. and Hänni, C. **2007**. Does the 43bp sequence from an 800,000 year old Cretan dwarf elephantid really rewrite the textbook on mammoths? *Biology Letters*, 3 (1): 57-59.

COMMENTS

1. **Calvignac, S.** **2009**. Mito-communications. *MTDNA*, 20 (5-6): 139-144.

2. **Calvignac, S. 2008.** [Climatic events and geographical patterns of the genetic diversity]. French. *Médecine/Sciences*, 24 (8): 686-8.
3. **Calvignac, S. 2008.** [Alternative methods for the study of simian retroviral genetic diversity]. French. *Médecine/Sciences*, 24 (6): 577-8.

Oral communications and posters

ORAL COMMUNICATIONS

1. Leendertz, F.H., Scuda, N., Cameron, K.N., Kidega, T., Zuberbühler, K., Leendertz, S.A.J., Couacy-Hymann, E., Boesch, C., **Calvignac, S.**, Ehlers, B. **2010.** African great apes are naturally infected with polyomaviruses closely related to Merkel cell polyomavirus. Tenth Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases Conference. Amsterdam, The Netherlands.
2. **Calvignac, S.**, Hughes, S., Tougard, C., Michaux, J., Thévenot, M., Philippe, M., Hamdine, W. and Hänni, C. **2007.** [Was antique Iberia selling brown bears?] Archéométrie'07. Aix-en-Provence, France.
3. **Calvignac, S.**, Hughes, S., Tougard, C., Michaux, J., Thévenot, M., Philippe, M., Hamdine, W. and Hänni, C. **2006.** Ancient DNA evidence for the loss of a highly divergent brown bear clade during historical times. Eighth Archeozoology of South-Western Asia and Adjacent Areas Meeting. Lyon, France.
4. **Calvignac, S.**, Hughes, S., Tougard, C., Michaux, J., Thévenot, M., Philippe, M., Hamdine, W. and Hänni, C. **2005.** Atlas bear population genetics through ancient DNA analyses. Ninth Evolutionary Biology Meeting. Marseille, France.

POSTERS

1. Pagès, M., **Calvignac, S.**, Klein, C., Paris M., Hughes S. and Hänni, C. **2007.** Combined analysis of fourteen nuclear genes refines the *Ursidae* phylogeny. Eleventh Evolutionary Biology Meeting. Marseille, France.
2. Pagès, M., **Calvignac, S.**, Klein, C., Paris M., Hughes S. and Hänni, C. **2007.** Combined analysis of fourteen nuclear genes refines the *Ursidae* phylogeny. ESEB 2007 Bisannual Meeting. Uppsala, Suède.
3. **Calvignac, S.**, Hughes, S., Tougard, C., Michaux, J., and Hänni, C. **2007.** Genetic diversity of past brown bear populations south of the Mediterranean basin. SMBE 2007 Annual Meeting. Halifax, Canada.
4. **Calvignac, S.**, Terme, JM., Jalinot, P. and Hänni, C. **2007.** Retrieval of proviral DNA fragments from a 93-year-old *Chlorocebus aethiops* museum specimen. Thirteenth International Conference on Human Retrovirology. Hakone, Japon.

5. **Calvignac, S.**, Terme, JM., Jalinot, P. and Hänni, C. **2006**. Retrieval of proviral DNA fragments from a 93-year-old *Chlorocebus aethiops* museum specimen. Nineteenth Jacques Cartier Symposium. Lyon, France.

6. **Calvignac, S.**, Pagès, M., Michaux, J., Thévenot, M., Hughes, S. and Hänni, C. **2006**. The morphological variation of fossil remains and the problematic notion of palaeontological species: the case of the Atlas bear resolved by ancient DNA analyses. International Symposium on the Evolution of Vertebrates. Lund, Suède.

Languages

ENGLISH

Fluent

ITALIAN

Able to understand, write and speak properly

GERMAN

Basic knowledge