

Sébastien CALVIGNAC

Born on May 5th, 1981 in Montauban, France
Married, two children
Robert Koch-Institut, NG2
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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: 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: 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

- From 2010** **Researcher**
Robert Koch-Institut
Themes: evolution of ape pathogens, with an emphasis on retroviruses
Supervisor: Fabian H. Leendertz

- 2008-2009** **Temporary assistant professor**
Université Claude Bernard (Lyon, France)
Theme: determination of the molecular bases of the adaptation to subterranean environments in *Asellota* (Crustacea)
Supervisor: 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: Catherine Hänni
- 2003** **Trainee**
Université Paul Sabatier (Toulouse, France)
Theme: study of the immunomodulative properties of the HCV Core protein
Supervisor: Bernard Pipy

Teaching experience

At university

Organismal biology (1st and 2nd year students, 102 hours, 2008/2009)
Sustainable development (3rd year students, 10,5 hours, 2008/2009)

In high school

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 (Frontonnais, summer 2002)
Worker in a dairy and in a biscuit factory (summer 2001)
Activity leader in outdoor centres (summers 1997 to 2000)

Peer-reviewed articles

1. Leendertz, S.A.J., Junglen, S., Hedemann, C., Goffe, A., Calvignac, S., Boesch, C., Leendertz, F.H. **In press**. High prevalence, co-infection rate and genetic diversity of retroviruses in wild red colobus monkeys (*Piliocolobus badius badius*) in Taï National Park, Côte d'Ivoire. *Journal of Virology*.
2. Terme, J.M.*, Calvignac, S.*, Duc Dodon, M., Gazzolo, L. , Jordan, A. **2009**. E box motifs as mediators of proviral latency of human retroviruses. *Retrovirology*, 6: 81.
* Equal contributors.

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

Oral communications and posters (* when presented by myself)

1. 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.
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. 11th Evolutionary Biology Meeting. Marseille, France. (Poster)
3. 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. (Poster)
4. 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. (Poster)

5. Calvignac, S.*, Terme, JM., Jalinot, P. and Hänni, C. **2007**. Retrieval of proviral DNA fragments from a 93-year-old *Chlorocebus aethiops* museum specimen. 13th International Conference on Human Retrovirology. Hakone, Japon. (Poster)
6. Calvignac, S.*, Terme, JM., Jalinot, P. and Hänni, C. **2006**. Retrieval of proviral DNA fragments from a 93-year-old *Chlorocebus aethiops* museum specimen. 19th Jacques Cartier Symposium. Lyon, France. (Poster)
7. 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. (Poster)
8. 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. 8th Archeozoology of South-Western Asia and Adjacent Areas Meeting. Lyon, France.
9. 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. 9th Evolutionary Biology Meeting. Marseille, France.

Applications to long-term positions

Assistant professor, Université Claude Bernard (Lyon, France), 2010

MCF851 Ecologie évolutive et adaptation: ranked 2nd

Languages

English

Fluent

German

Used to be fluent, now able to read newspapers (Zertifikat Deutsch als Fremdsprache, befriedigend in 1999)

Italian

Able to understand, write and speak properly