
CURRICULUM VITAE
MARIE CHARPENTIER, PhD

Professional Address:

Institut des Sciences de l'Evolution-Montpellier
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French Nationality

Born June 10, 1977

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PROFESSION AND EDUCATION

2016- **Director of Researches in Evolutionary Biology (DR2);** ISEM UMR 5554, Montpellier, France

2014-2016 Director of Researches in Evolutionary Biology (DR2); CEFE UMR 5175, Montpellier, France

Nov 2013 French 'Habilitation to manage researches' ('HDR'), University of Montpellier II, France

2009-2014 Researcher of First Class (CR1). CEFE-CNRS, Montpellier, France

Dec 2004 PhD, University of Montpellier II, France

2001 MSc, University of Montpellier II, France

CURRENT RESPONSIBILITIES

2016-2020 **Member of the 'Comité National' (CoCNRS) Section 29 - CNRS**

2012-... **Coordinator of the 'Mandrillus Project'**
<http://www.projetmandrillus.com>

2012-2019 **Coordinator of a 'Global Ecology Field Station' (SEEG, INEE-CNRS)**

2010-2017 **Coordinator of a LIA (International Associated Laboratories), CNRS-CIRMF (Gabon)**

RESEARCH EXPERIENCES

09/05-12/08 **Postdoctoral position** at Duke University (supervisor: Dr C. Drea).

09/05-12/08 **Postdoctoral position** at Duke University (supervisor: Dr S. Alberts).

Since 11/05 **Collaboration** with Dr A. Widdig (Caribbean Primate Research Center).

08/05-12/05 **Collaboration** with Dr C. Drea (Duke University, Primate Centre).

10/01-12/04 **PhD thesis** with distinction (supervisors: Dr M. Hossaert-McKey, Dr E.J. Wickings, Dr P. Peignot). CEFE-CNRS, University of Montpellier II, France.

METRICS

Since 2004, 51 articles in peer-reviewed journals, 2 book chapters (in blue). H-factor: 23 with 2024 citations (Google scholar). Surrounded articles constitute the main scientific contributions of my studies. Supervised students are shown in italics. *Equal contributions.

ALL PUBLICATIONS

2017

1. *Percher A*, Romero A, Galbany J, Nsi Akoue G, Pérez-Pérez A, **Charpentier MJE**. 2017. Buccal dental-microwear and dietary ecology in a free-ranging population of mandrills (*Mandrillus sphinx*) from southern Gabon. **PlosOne**. In press.
2. **Charpentier MJE**, Givalois L, Faurie C, Soghessa O, Simon F, Kappeler PM. Seasonal glucocorticoid production correlates with a suite of small-magnitude environmental, demographic and physiological effects in mandrills. **American Journal of Physical Anthropology**. In press.
3. *Percher A*, Merceron G, Nsi Akoue G, Galbany J, Romero A, **Charpentier MJE**. 2017. Dental Microwear Textural Analysis as an analytical tool to depict individual traits and reconstruct the diet of a primate. **American Journal of Physical Anthropology**. In press.
4. *Poirotte C*, Benhamou S, Mandjembe A, Willaume E, Kappeler PM, **Charpentier MJE**. 2017. Gastro-intestinal parasitism and recursive movements in free-ranging mandrills. **Animal Behaviour**. In press.
5. Beaulieu M, Benoit L, Abaga S, Kappeler PM, **Charpentier MJE**. 2017. Mind the cell: Seasonal variation in telomere length mirrors changes in leukocyte profile. **Molecular Ecology**. In press.
6. *Pouillevet H*, *Dibakou S*, Ngoubangoye B, *Poirotte C*, **Charpentier MJE**. 2017. A comparative study of four methods for the detection of nematodes eggs and large protozoan cysts in mandrill faecal material. **Folia Primatologica**. In press.
7. *Nsi Akoue G*, Mbading-Mbading W, Willaume E, Souza A, Mbatchi B, **Charpentier MJE**. 2017. Seasonal and individual predictors of diet in a free-ranging population of mandrills. **Ethology** 123: 600-613.
8. *Poirotte C*, Massol F, Herbert A, Willaume E, Bomo PM, Kappeler PM, **Charpentier MJE**. 2017. Mandrills use olfaction to socially avoid parasitized conspecifics. **Science Advances** 3: e1601721.
9. **Charpentier MJE**, Harté M, Ngoubangoye B, Herbert A, Kappeler PM. 2017. Visual discrimination of kin in mandrills. **Ethology** 123: 251-259.

2016

10. *Poirotte C*, Kappeler PM, Ngoubangoye B, Bourgeois S, Moussodji M, **Charpentier MJE**. 2016. Morbid attraction to leopard urine in *Toxoplasma*-infected chimpanzees. **Current Biology** 26: 98-99.
11. **Charpentier MJE**, Odonne G, Schaal B. 2016. Odors in the social life of human and non-human primate societies. In: Chemical Ecology (eds: Bagnères AG, Hossaert-McKey M). Wiley-ISTE editions, pp 47-70. *Book chapter*.
12. *Poirotte C*, Basset D, Willaume E, Makaba F, Kappeler PM, **Charpentier MJE**. 2016. Environmental and individual determinants of parasite richness across seasons in a wild population of mandrills (*Mandrillus sphinx*). **American Journal of Physical Anthropology** 159: 442-456.

2015

13. *Levréro F*, *Carrete-Vega G*, Herbert A, Lawabi I, Courtiol A, Willaume E, Kappeler PM, **Charpentier MJE**. 2015. Social shaping of voices does not impair phenotype matching of kinship in mandrills. **Nature Communications** 6: 7609.
14. *Brockmeyer T*, Kappeler PM, Willaume E, Benoit L, Mboumba S, **Charpentier MJE**. 2015. Social organization and space use of a wild mandrill (*Mandrillus sphinx*) group. **American Journal of Primatology** 77:1036-1048.

2014

15. Benoit L, Mboumba S, Willaume S, Kappeler PM, **Charpentier MJE**. 2014. Using next-generation sequencing methods to isolate and characterize 24 simple sequence repeat loci in mandrills (*Mandrillus sphinx*). **Conservation Genetics Resources** 6: 903-905.
16. Beaulieu M, Mboumba S, Willaume E, Kappeler PM, **Charpentier MJE**. 2014. The oxidative cost of unstable social dominance. **Journal of Experimental Biology** 217: 2629-2632.

17. Galbany J, Romero A, Mayo-Alesón M, Itsoma F, Gamarra B, Pérez-Pérez A, Willaume E, Kappeler PM, **Charpentier MJE**. 2014. Age-related tooth wear differs between forest and savanna primates. **PlosOne** 9: e94938.

2013

18. **Charpentier MJE**, Drea CM. 2013. Victims of infanticide and conspecific bite wounding in a female-dominant primate: a long-term study. **PlosOne** 8: e82830.
19. **Charpentier MJE**, Mboumba S, Ditsoga C, Drea C. 2013. Nasopalatine ducts and flehmen behavior in the mandrill: Reevaluating olfactory communication in Old World Primates. **American Journal of Primatology** 75: 703-714.
20. Huchard E, **Charpentier MJE**, Marshall H, King A, Knapp L, Cowlshaw G. 2013. Paternal effects on access to resources in a promiscuous primate society. **Behavioral Ecology** 24: 229-236.

2012

21. **Charpentier MJE**, Huchard E, Widdig A, Gimenez O, Sallé B, Kappeler P, Renoult JP. 2012. Distribution of affiliative behavior across kin classes and their fitness consequences in mandrills. **Ethology** 118: 1198-1207.

22. **Charpentier MJE***, Barthes N*, Proffit M, Bessièrè J-M, Grison C. 2012. Critical thinking in the chemical ecology of mammalian communication: Roadmap for future studies. **Functional Ecology** 26: 769-774.

23. Tung J*, **Charpentier MJE***, Mukherjee S, Altmann J, Alberts SC. 2012. Genetic effects on mating success and partner choice in a social mammal. **The American Naturalist** 180: 113-129.

24. **Charpentier MJE***, Fontaine MC*, *Cherel E*, Renoult JP, Jenkins T, Benoit L, Barthès N, Alberts SC, Tung J. 2012. Genetic structure in a dynamic baboon hybrid zone corroborates behavioral observations in a hybrid population. **Molecular Ecology** 21: 715-731.

25. Lucas C, **Charpentier MJE**. 2012. Odeurs en sociétés. In: *Ecologie chimique. Le langage de la nature*. Cherche-Midi, Paris. p73-85. *Book chapter*.

2011

26. Renoult JP, Schaefer HM, Sallé B, **Charpentier MJE**. 2011. The evolution of the multicoloured face of mandrills: insights from the perceptual space of colour vision. **PlosOne** 6: e29117.

2010

27. **Charpentier MJE***, Crawford JC*, Boulet M, Drea CM. 2010. Message 'scent': lemurs detect the genetic relatedness and quality of conspecifics via olfactory cues. **Animal Behaviour** 80: 101-108.

28. Boulet M, Crawford JC, **Charpentier MJE**, Drea CM. 2010. Honest olfactory ornamentation in a female-dominant primate. **Journal of Evolutionary Biology** 23: 1558-1563.

29. Starling AP, **Charpentier MJE**, Fitzpatrick C, Scordato ES, Drea CM. 2010. Seasonality, sociality, and reproduction: Long-term stressors of ring-tailed lemurs (*Lemur catta*). **Hormones and Behavior** 57: 76-85.

30. Setchell JM, **Charpentier MJE**, Abbott KM, Wickings EJ, Knapp LA. 2010. Opposites attract: MHC-associated mate choice in a polygynous primate. **Journal of Evolutionary Biology** 23: 136-148.

31. Boulet M*, **Charpentier MJE***, Drea CM. 2009. Decoding an olfactory mechanism of kin recognition and inbreeding avoidance in a primate. **BMC Evolutionary Biology** 9: 281.

2009

32. Setchell JM, **Charpentier MJE**, Abbott KM, Wickings EJ, Knapp LA. 2009. Is brightest best? Testing the Hamilton-Zuk hypothesis in mandrills. **International Journal of Primatology** 30: 825-844.

33. Huchard E, Benavides J, Setchell JM, **Charpentier MJE**, Alvergne A, King JA, Knapp LA, Cowlshaw G, Raymond M. 2009. Studying shape in sexual signals: the case of primate sexual swellings. **Behavioral Ecology and Sociobiology** 63: 1231-1242.

34. Alvergne A, Huchard E, Caillaud D, **Charpentier MJE**, Setchell JM, Ruppli C, Féjan D, Martinez L, Cowlshaw G, Raymond M. 2009. Human ability to visually recognize kin within primates. **International Journal of Primatology** 30: 199-210.

2008

35. **Charpentier MJE**, Boulet M, Drea CM. 2008. Smelling right: the scent of male lemurs advertises genetic quality and relatedness. **Molecular Ecology** 17: 3225-3233.

36. Jones et al. 2008. Senescence patterns determined by species ranking on the fast-slow life-history continuum. **Ecology Letters** 11: 664-673.

37. **Charpentier MJE**, Van Horn RC, Altmann J, Alberts SC. 2008. Paternal effects on offspring fitness in a multimale society. **Proceedings of the National Academy of Sciences USA** 105: 1988-1992.

38. **Charpentier MJE**, Williams CV, Drea CM. 2008. Inbreeding depression in ring-tailed lemurs (*Lemur catta*): genetic diversity predicts parasitism, immunocompetence, and survivorship. **Conservation Genetics** 9: 1605-1615.

39. **Charpentier MJE**, Tung J, Altmann J, Alberts SC. 2008. Age at maturity in wild baboons: genetic, environmental and demographic influences. **Molecular Ecology** 17: 2026-2040.

40. Tung J, **Charpentier MJE**, Garfield DA, Alberts SC. 2008. Genetic evidence reveals temporal change in hybridization patterns in a wild baboon population. **Molecular Ecology** 17: 1998-2011.

41. **Charpentier MJE**, Prugnolle F, Gimenez O, Widdig A. 2008. Genetic heterozygosity and sociality in a primate species. **Behavior Genetics** 38: 151-158.

42. **Charpentier MJE**, Deubel D, Peignot P. 2008. Relatedness and social behaviors in *Cercopithecus solatus*. **International Journal of Primatology** 29: 487-495.

43. Leigh SR, Setchell JM, **Charpentier MJE**, Knapp LA & Wickings EJ. 2008. Fitness and canine size in male mandrills (*Mandrillus sphinx*). **Journal of Human Evolution** 55: 75-85.

44. Peignot P*, **Charpentier MJE***, Bout N, Bourry O, Massima U, Dosimont O, Terramorsi R, Wickings EJ. 2008. The first release project of captive-bred mandrills, *Mandrillus sphinx*: Results of two-years' monitoring. **Oryx** 42: 122-131.

2007

45. **Charpentier MJE**, Widdig A, Alberts SC. 2007. Inbreeding depression in primates: An historical review of methods used and empirical data. **American Journal of Primatology** 69: 1370-1386.

46. **Charpentier MJE**, Peignot P, Hossaert-McKey M, Wickings EJ. 2007. Kin discrimination in juvenile mandrills (*Mandrillus sphinx*). **Animal Behaviour** 73: 37-45.

2006

47. Setchell JM, **Charpentier MJE**, Bedjabaga IB, Reed P, Wickings EJ, Knapp LA. 2006. Secondary sexual characters and female quality in primates. **Behavioral Ecology and Sociobiology** 61: 305-315.

48. **Charpentier M**, Setchell JM, Prugnolle F, Wickings EJ, Peignot P, Balloux F, Hossaert-McKey M. 2006. Life-history correlates of inbreeding depression in mandrills (*Mandrillus sphinx*). **Molecular Ecology** 15: 21-28.

2005

49. **Charpentier M**, Setchell JM, Prugnolle F, Knapp L, Wickings EJ, Peignot P, Hossaert-McKey M. 2005. Genetic diversity and reproductive success and in mandrills (*Mandrillus sphinx*). **Proceedings of the National Academy of Sciences USA** 102: 16723-16728.

50. **Charpentier M**, Peignot P, Hossaert-McKey M, Gimenez O, Setchell JM, Wickings EJ. 2005. Constraints on control: factors influencing reproductive success in male mandrills (*Mandrillus sphinx*). **Behavioral Ecology** 16: 614-623.

51. **Charpentier M**, Hossaert-McKey M, Wickings EJ, Peignot P. 2005. Consequences of a one-male harem reproductive system and inbreeding in a captive group of *Cercopithecus solatus*. **International Journal of Primatology** 26: 695-708.

52. Setchell JM, **Charpentier M**, Wickings EJ. 2005. Mate-guarding and paternity in mandrills (*Mandrillus sphinx*): factors influencing monopolisation of females by the alpha male. **Animal Behaviour** 70: 1105-1120.

53. Setchell JM, **Charpentier M**, Wickings EJ. 2005. Sexual selection and reproductive careers in mandrills (*Mandrillus sphinx*). **Behavioral Ecology and Sociobiology** 58: 474-485.

54. Prugnolle F, Manica A, **Charpentier M**, Guégan JF, Guernier V, Balloux F. 2005. Worldwide HLA diversity and pathogen-driven selection. **Current Biology** 15: 1022-1027.

2004

55. **Charpentier M**, Peignot P, Hossaert-McKey M, Wickings EJ. 2004. Changes in social interactions during adolescence in male mandrills (*Mandrillus sphinx*). **American Journal of Primatology** 63: 63-73.

OTHERS

Poirotte C, Charpentier MJE. 2017. Inset "Ces parasites qui nous manipulent" (chapter: "Des maladies qui collent à la peau"). In : Ecologie de la Santé. Recherche-Midi, Paris.

Charpentier MJE, Williams CV, Drea CM. 2016. Erratum to: Inbreeding depression in ring-tailed lemurs (*Lemur catta*). **Conservation Genetics** 17: 751-751.

MEETING (ORAL) PARTICIPATIONS

1. **2017. Seminar, Toulouse, France.** Estimating stress in the wild.
2. **2017. Seminar, Montpellier, France.** Baboon mooting event. Studying the evolution of sociality thanks to a long-term field project
3. **2016. Invited speaker (national conference), Agropolis, Montpellier.** Hybridation, traits d'histoire de vie et dynamique d'une zone hybride.
4. **2016. Invited speaker (conference, general public), 'European Exposcience', Toulouse.** An international field research station in Tropical Ecology - Applications in Health Ecology.
5. **2016. Invited speaker (symposium), Max Planck Institute, Leipzig, Germany.** Social avoidance of contagious parasites is chemically-mediated in mandrills.
6. **2016. Seminar, Paris, France.** A long-term field project: applications for the study of health ecology in primate societies.
7. **2016. Seminar, ISEM, France.** The evolution of sociality.
8. **2015. Seminar, SODEPAL, Gabon.** An international field station for researches in tropical ecology.
9. **2015. International conference 'Animal Behavior Society', USA.** Parasitism and sociality in primates.
10. **2015. Invited speaker (seminar), Université des Sciences et Techniques de Masuku, Gabon.** An international field station in southern Gabon: Forests, primates and pathogens.
11. **2015. Invited speaker (seminar), CNRS, Paris.** An international field station in southern Gabon: Forests, primates and pathogens.
12. **2014. International conference 'International Primatological Society', Vietnam.** Parasitism and sociality in primates.
13. **2014. Invited speaker (seminar), Université des Sciences et Techniques de Masuku, Gabon.** Parasitism and sociality in primates.
14. **2013. Seminar, CEFÉ, Montpellier.** Long-term field projects.
15. **2013. Invited speaker (seminar), Jussieu, Paris.** Kin selection in primates.
16. **2013. Invited speaker (seminar), Université de St Etienne.** Kin selection in primates.
17. **2012. Seminar, CENAREST, Libreville, Gabon.** The 'Mandrillus Project': a long-term field site in Gabon.
18. **2012. Invited speaker (seminar), Université des Sciences et Techniques de Masuku, Gabon.** Kin selection in primates.
19. **2011. National conference, GDR, Dijon.** Critical thinking in mammalian chemical ecology.
20. **2011. International conference 'European Federation of Primatology', Portugal.** Kin selection in non-human primates.
21. **2011. International conference 'Human Behavior and Evolution Society', Montpellier.** Some insights on kin selection in non-human primates.

22. **2011. Seminar, University of Freiburg, Germany.** Kin selection in primates.
23. **2010. Invited speaker (seminar), DPZ (Deutsches Primatenzentrum GmbH), Germany.** Discrimination and biased behaviors between kin: Existing evidences, proximate mechanisms and ultimate consequences.
24. **2009. National conference, GDR, Marseille.** Olfaction as a mechanism guiding kin recognition and mate choice in *Lemur catta*.
25. **2009. International conference ‘International Society of Chemical Ecology’, Switzerland.** Olfaction as a mechanism guiding kin recognition and mate choice in a primate species.
26. **2009. Invited speaker (conference, general public), ‘Cité des Sciences de la Villette’, Paris.** La sexualité des primates.
27. **2008. Invited speaker (symposium), University of Barcelona, Spain.** Kin selection and discrimination in primates: evidences, mechanisms and consequences.
28. **2008. International conference ‘International Primatological Society’, Scotland.** Temporal change in hybridization patterns and effects of hybridity on maturation in a wild baboon population.
29. **2007. Seminar, Duke University, USA.** Smelling right: The scent of male lemurs advertises genetic quality and relatedness.
30. **2007. International conference ‘American Society of Primatology’, USA.** Inbreeding depression in *Lemur catta*: genetic diversity predicts parasitism, immunocompetence, and survivorship.
31. **2007. Invited speaker (seminar), Max Planck Institute, Germany.** The use of genetic tools in the study of primate ecology and life-history traits.
32. **2006. International conference ‘International Primatological Society’, Uganda.** How inbreeding affect fitness traits in primates: growth, reproductive success and dominance in mandrills.
33. **2005. Seminar, Duke University, USA.** Mating system, kin relationships and social structure in *Mandrillus sphinx*: an approach integrating behavioral ecology and genetics.
34. **2005. Seminar, CEFE, Montpellier.** Constraints on control: factors influencing reproductive success in male mandrills (*Mandrillus sphinx*).
35. **2004. International conference ‘International Primatological Society’, Italie.** Reproductive success in alpha male mandrills.
36. **2001. International conference ‘Société Francophone De Primatologie’, Rennes.** Socio-sexual development of adolescent male mandrills (*Mandrillus sphinx*).
37. **2001. National conference, GDR, Montpellier.** Development of the dominance hierarchy in adolescent male mandrills (*Mandrillus sphinx*).

GRANTS AND AWARDS

- **ANR** (PI; 2017; 670000€)
- **Mission pour l’Interdisciplinarité** CNRS (PI; 2017; 30000€)
- **IRD** (PI with E. Huchard; 2017; grant for PhD student from the South; 3000€)
- **CARN foundation** (PI with E. Huchard; 2017; grant for PhD student from the South; 4500€)
- **IMEA Consulting** (PI; 2016; 6000€).
- **PEPS** (PI; INEE-CNRS; 2014; 20000€)
- **LIA** (International Associated Laboratories) CNRS-CIRMF (PI; 2010-2017; ~125000€)
- **PROCOPE-DAAD** (PI; 2013-2014; 15000€)
- **PEPS** (PI; INEE-CNRS; 2012; 10000€)
- **DFG (German Research Foundation)**, DPZ (PI with P. Kappeler; 2012-2014; ~550000€)
- **SEEG** (Station d’Etude en Ecologie Globale), INEE-CNRS (PI; 2012-2015; ~20000€)
- **Marie Curie International Reintegration Grant** (PI; 2009-2011; 75000€)
- **National Science Foundation** (co-investigator; PI: CM Drea; 2007- 2010; ~450000€)
- **Marie Curie Outgoing fellowship** (PI; 2007-2009; ~250000€)

- **French Foreign Ministry:** Position of International Volunteer at CIRMF, Gabon (PI; 2002-2004; ~40000€)
- **Award 'Prix Paoletti'** (2008), CNRS, France
- **Award Royal Anthropological Institute of Great Britain and Ireland** (2001)

STUDENTS

Since 2012

3 master students

4 PhD students:

- Clémence Poirotte (SIBAGHE; 100% of involvement; 2014-2016)
- Gontran Nsi Akoué (USTM; 50% of involvement; 2013-2017)
- Alice Percher (SIBAGHE; 80% of involvement; 2015-2017)
- Serge Ely Dibakou (USTM; 50% of involvement; 2015-2018)

JURYS AND COMMITTEES

- **2017** 'Rapporteur' for French 'Habilitation to lead researches' (J. Meunier, Tours)
- **2017** 'Rapporteur' for French 'Habilitation to lead researches' (A. Cohas, Lyon)
- **2017** 'Rapporteur' of PhD thesis (V. Romano, Strasbourg)
- **2017** 'Rapporteur' of PhD thesis (P. Thomas, Paris)
- **2017** Member of HCERES committee (IPHC, Strasbourg)
- **2017** 'Rapporteur' for French 'Habilitation to lead researches' (C. Gilbert, Paris)
- **2016** Member of HCERES committee (IPHEP, Poitiers)
- **2016** 'Examinateur' for PhD thesis (G. Thierry, Poitiers)
- **2015** 'Rapporteur' for French 'Habilitation to lead researches' (G. Merceron, Poitiers)
- **2015** 'Rapporteur' of PhD thesis (M. Ferrandiz Rovira, Lyon)
- **2012-2014** Member of CNU (National Committee of the French Universities), section 67
- **2013** Member of the final admission section 29 of the CNRS committee for recruitments
- **2012** Member of the AERES committee (MECADEV, Paris)
- **2012** 'Examinateur' for PhD thesis (S. Lardy, Lyon)
- **2011** Member of the recruitment board for an associate professor (St Etienne)
- **2010** Member of the recruitment board for an engineer (CNRS Marseille)
- **2008-2017** Member of 8 PhD committees

EDITORIAL WORK

2010-2013	Associate Editor	Behavioral Ecology and Sociobiology
2009-2013	Member of the Editorial Board	International Journal of Primatology

FIELD DUTIES

I'm spending between 2 and 6 months in the field in Gabon each year, to manage the field station and the lab I have set-up in 2012 (Mandrillus Project). My duties in Gabon include administrative work, car and lab maintenance, lab analyses, reinforcement or training of field assistants and students, human resources.

MISCELLANEOUS

Referee PNAS, Funct Ecol, Phil Trans R Soc B, Trends Parasitol, Mol Ecol, PlosOne, J Evol Biol, Heredity, Echography, Anim Behav, Behav Ecol Sociobiol, Behav Process, Ethology, Am J Primatol, Folia Primatol, Int J Primatol

Grant referee National Science Foundation, National French Agency ('Agence National pour la Recherche'), National Geographic Society, Leakey Foundation, French Foundation for Biodiversity Research, Czech Scientific Foundation

2010-2015 **Guest Scientist at the DPZ** (Deutsches Primatenzentrum GmbH)