



## Prof. Dr. Elke Zimmermann

Univ. Prof. Dr. rer. nat. Zimmermann

### Main interests

Please note the [valediction for Prof. Dr. Zimmermann](#).

**Behavioral Ecology and Conservation Biology**

**Biocommunication**

**Cognitive Ethology**

Projects involved: [Click here](#)



Univ. Prof. Dr. rer. nat.  
Zimmermann

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### Staff of the Research Group: Behavior and Evolution

#### Staff List

#### [Prof. Dr. Elke Zimmermann](#)

Full Professor and Director; Experimental behavioral and evolutionary research; tropical biology; primatology; Research unit 499 of the German Research Foundation

#### Prof. Dr. Ute Radespiel

Senior lecturer; Behavioral ecology and conservation genetics, tropical biology in Madagascar.

#### [Dr. Marina Scheumann](#)

Research assistant and post doc, Biocommunication

#### [Dr. Daniel Schmidtke](#)

Research assistant and post doc

#### Associated staff members

#### [Dr. Marine Joly](#)

Research Fellow, University of Portsmouth, UK

#### [Sharon Kessler, PhD](#)

Research Fellow, McGill University, Quebec, Canada

#### [Dr. Romule Rakotondravony](#)

Maitre de Conference, Université de Mahajanga, Madagascar

#### [Dr. Andriatahiana Rabesandratana](#)

Maitre de Conference, Université de Tuléar, Madagascar

#### Rindrahatsarana Ramanankirahina, PhD

Post-doc

#### [Prof. Dr. Blanchard Randrianambinina](#)

Maitre de Conference, Université de Mahajanga, Madagascar

#### [Prof. Dr. Solofonirina Rasoloharijaona](#)

Maitre de Conference, Université de Mahajanga, Madagascar

#### [Marina Davila Ross, PhD](#)

Senior lecturer, University of Portsmouth, Centre for the Study of Emotion, Psychology Department, King Henry Building

#### Ph.D. or Doctoral students (title), intramural

[Jennifer Brunke](#)

Habitat fragmentation in a tropical rainforest ecosystem: a case study on the genetic diversity of small mammal communities in the lower Kinabatangan floodplain in Borneo (Sabah, Malaysia)

Marko Dubicanac

Phenomenology and genesis of pathological changes of the aging eye in the animal model mouse lemur: a comparison of colonies with different annual rhythms.

Mamy Rina Evasoa

The evolution of female dominance in mouse lemurs: the effect of sex and species on social interactions

Alida Frankline Hasiniaina

Acoustic signal variation of mouse lemurs (*Microcebus* spp.): implications for taxonomy and conservation biology.

**Sarah Hohenbrink**

Development, physiology and consequences of female dominance in two basal primate models, the grey and the Goodman's mouse lemur (*Microcebus murinus* and *M. lehilahytsara*)

Annette Klaus

Intestinal parasite communities in an endangered primate endemic to Borneo, the proboscis monkey, *Nasalis larvatus* (Wurmb 1787)

[Annette Klein](#)

Parasite communities in small-bodied Malagasy lemurs (*Microcebus murinus* and *M. ravelobensis*): the effect of sleeping sites, sex and season

May Hokan

Parasite communities in endangered Malagasy lemurs (*Avahi occidentalis* *Lepilemur edwardsi*): the effect of sleeping sites, sex and season.

[Sabrina Linn](#)

Vocal communication in the Southern White Rhinoceros (*Ceratotherium simum simum*) and the impact of sex hormones.

#### **Diploma- / Master- / Bachelorstudents**

Lara Feistel, B.Sc., Lisa Gülker

#### **Alumni**

PD Dr.rer.nat. Ute Radespiel, PD Dr.rer.nat. Thomas Geissmann

Dr.rer.nat. Philipp Hohenbrink, Dr.rer.nat. Christian Schopf, [Dr.rer.nat. Wiebke S. Konerding](#), Dr. Lalandy Sehen, Dr.rer.nat. Mathias Craul, Dr.rer.nat. Simone Schehka, Dr.rer.nat. Pia Braune, [Dr.rer.nat. Marina Scheumann](#), Dr.rer.nat. Michael Großbach, Dr.rer.nat. Perris-Fabian Flügge, Dr.rer.nat. Heike Lutermann, Dr.rer.nat. Petra Ehresmann, Dr.rer.nat. Heike Pröhl, Dr.rer.nat. Vera Zietemann, Dr.rer.nat. Friederike Woog, Dr.rer.nat. Thomas G. Hafen, Dr.rer.nat. Ute Radespiel, Diplôme de doctorat Romule Rakotondravony, Diplôme de doctorat Andriatahiana Rabesandratana, Doctorat de troisième cycle Blanchard Randrianambinina, Doctorat de troisième cycle Solofonirina Rasoloharjaona

Dr.med.vet. Franziska Quietsch, Dr.med.vet. Sabine Steinmetz, Dr.med.vet. Sandra Mester, Dr.med.vet. Eva Dujardin, Dr.med.vet. Frank Düsterhöft, Dr.med.vet. Stefanie Hannig, Dr.med.vet. Elisabeth Labes, Dr.med.vet. Wiebke Ena Reimann, Dr.med.vet. Barthel Schmelting

Rindrahatsarana Ramanankirahina Ph.D., Sharon Kessler Ph.D., Sandra Thorén Ph.D., Lisette Leliveld Ph.D., Maria Méndez-Cárdenas Ph.D., Marina Davila-Ross Ph.D., Gillian Olivieri Ph.D., Ekatarina Klinkova Ph.D., Kristina Simonyan Ph.D., Barthel Schmelting Ph.D.

Harmonie Klein, M.Sc., Oliver Kruse, M.Sc., Héléne Chotard, M.Sc., Alban Renard, M.Sc., Jennifer Brunke, M.Sc., Dinah Esser, M.Sc., Vivian Jürgens, M.Sc., Philipp Kappel, M.Sc.

Ricardo Schmidt, B.Sc., Carina Limburg, B.Sc., Mona Pape, B.Sc., Polina Schneider, B.Sc., Gehrmann, Alina B.Sc., Lena Langner, B.Sc., Christopher-Y. Egler, B.Sc., Julia Lange, B.Sc., Lara Feisterl, B.Sc., Lina Lange, B.Sc., Elisabeth Freitag, B.Sc., Sebastian Demtröder, B.Sc., Dana Erdtmann, B.Sc., Anke Johnsen, B.Sc., Tabea Tschimpke, B.Sc., Anke Wiechert, B.Sc., Julia Haenel, B.Sc., Jasmin Jatho, B.Sc., Anna-Elisa Roser, B.Sc., Maren Schimmer, B.Sc., Edda Bellmann, B.Sc., Christiane Hanisch, B.Sc., Daniela Jürgensen, B.Sc., Christopher Meusel, B.Sc., Heidi Pettit, B.Sc., Tobias Potthoff, B.Sc., Philipp Kappel, B.Sc., Fleur Lehardt, B.Sc., Frank Roloff, B.Sc.

Dipl.-Biol. Janina Eisenbeis, Dipl.-Biol. Nathalie Jäschke, Dipl.-Biol. Difei Li, Dipl.-Biol. Kathrin Röper, Dipl.-Biol. Björn Marschall, Dipl.-Biol. Pia Eichmüller, Dipl.-Biol. Anneke Herlyn, Dipl.-Biol. Hanna Kastein, Dipl.-Biol. Katja Borchert, Dipl.-Biol. Wiebke Köhler, Dipl.-Biol. Ina Leinweber, Dipl.-Biol. Miriam Linnenbrink, Dipl.-Biol. Jessica Roßberg, Dipl.-Biol. Nicole Schneider, Dipl.-Biol. Christian Schopf, Dipl.-Biol. Dennis von der Wall, Dipl.-Biol. Jan Dehne, Dipl.-Biol. Lisa-Marie Gerhardt, Dipl.-Biol. Arite Heuck, Dipl.-Biol. Philipp Mesecke, Dipl.-Biol. Esther Bunkus, Dipl.-Biol. Melanie Dietz, Dipl.-Biol. Marina Juric, Dipl.-Biol. Dina Sündermann, Dipl.-Biol. Miriam Wessels, Dipl.-Biol. Melanie Söhlke, Dipl.-Biol. Katarina Guschanski, Dipl.-Biol. Marina Davila Ross, Dipl.-Biol. Mathias Craul, Dipl.-Biol. Susanne Eichler, Dipl.-Biol. Kathrin Marquart, Dipl.-Biol. Simone Rosenkranz, Dipl.-Biol. Helene Altrichter, Dipl.-Biol. Nicole Hagenah, Dipl.-Biol. Vololonarivo Voahangihirinirina Harisoa, Dipl.-Biol. Jan Schulz, Dipl.-Biol. Andrea Weidt, Dipl.-Biol. Perris Flügge, Dipl.-Biol. Silke Polenz, Dipl.-Biol. Miriam Doye, Dipl.-Biol. Carola Peters, Dipl.-Biol. Antje Rendigs, Dipl.-Biol. Zübeyde Sarikaya, Dipl.-Biol. Sandra Bunte, Dipl.-Biol. Almut Hold, Dipl.-Biol. K.-O. Krüger, Dipl.-Biol. Karsten

Arne Stünkel, Livia Wittiger, Sylke Eyring, Robert Dallmann

[Professional and scientific career](#)

**1996**

Full Professor (C4) for Zoology and Director of the Institute of Zoology, TiHo Hannover

**1992 1996**

Heisenberg-fellow, German Primate Center (DPZ), Head of the Laboratory of Biocommunication at the DPZ

**1991 1992**

Heisenberg-fellow, University of Konstanz

**1990 1991**

Research scientist, LS Markl, Faculty of Biology, University of Konstanz

**1990**

Habilitation (PD with *venia legendi* in Zoology), University of Stuttgart-Hohenheim

**1985 1989**

Research scientist (Wiss. Assistentin), Institute of Zoology, University of Stuttgart-Hohenheim

**1985**

Dissertation (Dr.rer. nat.), University of Stuttgart-Hohenheim

**1982 1985**

Graduate student research assistant, Institute of Zoology, University of Stuttgart-Hohenheim

**1977 1982**

Study of Biology (Diplom), University of Stuttgart-Hohenheim

Diploma degree (Dipl.-Biol.)

**07. 08.1978**

Undergraduate student research assistant, Institute of Anthropology, University of Göttingen, Project: Behavioral development of marmosets (Callithrichidae, Primates)

[Publications and Abstracts](#)

**Recent Articles in peer reviewed journals**

**2018**

Durden, L. A., Kessler, S. E., Radespiel, U., Zimmermann, E., Hasiniaina, A. F., & Zohdy, S. (2018). **A New Species of Sucking Louse (Phthiraptera: Anoplura: Polyplacidae) From the Gray Mouse Lemur, *Microcebus murinus* (Primates: Cheirogaleidae), in Madagascar.** *Journal of Medical Entomology*. doi:10.1093/jme/tjy046

Hasiniaina, A. F., Scheumann, M., Rina Evasoa, M., Braud, D., Rasoloharijaona, S., Randrianambinina, B., & Zimmermann, E. (2018). **High frequency/ultrasonic communication in a critically endangered nocturnal primate, Claire's mouse lemur (*Microcebus mampiratra*).** *American Journal of Primatology*, e22866. doi:10.1002/ajp.22866

Klaus, A., Strube, C., Roper, K. M., Radespiel, U., Schaarschmidt, F., Nathan, S., Goossens, B., & Zimmermann, E. (2018). **Fecal parasite risk in the endangered proboscis monkey is higher in an anthropogenically managed forest environment compared to a riparian rain forest in Sabah, Borneo.** *PLoS One*, 13(4), e0195584. doi:10.1371/journal.pone.0195584

Rina Evasoa, M., Radespiel, U., Hasiniaina, A. F., Rasoloharijaona, S., Randrianambinina, B., Rakotondravony, R., & Zimmermann, E. (2018). **Variation in reproduction of the smallest-bodied primate radiation, the mouse lemurs (*Microcebus* spp.): A synopsis.** *American Journal of Primatology*, e22874. doi:10.1002/ajp.22874

Römer, S., Bender, H., Knabe, W., Zimmermann, E., Rübsamen, R., Seeger, J., & Fietz, S. A. (2018). **Neural progenitors in the developing neocortex of the Northern Tree Shrew (*Tupaia belangeri*) Show a closer relationship to gyrencephalic Primates than to lissencephalic rodents.** *Frontiers in Neuroanatomy*, 12(29). doi:10.3389/fnana.2018.00029

**2017**

Andriaholinirina, N., Fausser, J. L., Roos, C., Zinner, D., Thalmann, D., Rabarivola, C. J., Ravoarimanana, I., Ganzhorn, J. U., Meier, B., Hilgartner, R., Walter, L., Zaramody, A., Langer, C., Hahn, T., Zimmermann, E., Radespiel, U., Craul, M., Tomiuk, J., Tattersall, I., & Rumpel, Y. (2017). **Corrective paper concerning three new species of the genus *Lepilemur* GEOFFROY, 1851 (Mammalia).** *Dumerilia*, 7, 62-71.

Craul, M., Zimmermann, E., Rasoloharijaona, S., Randrianambinina, B., & Radespiel, U. (2017). **Corrective paper concerning two new species of the genus *Lepilemur* GEOFFROY, 1851 (Mammalia).** *Dumerilia*, 7, 72-77.

Dubicanac, M., Strueve, J., Mestre-Frances, N., Verdier, J. M., Zimmermann, E., & Joly, M. (2017). **Photoperiodic regime influences onset of lens opacities in a non-human primate.** *PeerJ*, 5, e3258. doi:10.7717/peerj.3258

Dubicanac, M., Radespiel, U., & Zimmermann, E. (2017). **A review on ocular findings in mouse lemurs: potential links to age and genetic background.** *Primate Biology*, 4(2), 215-228. doi:10.5194/pb-4-215-2017

Hokan, M., Strube, C., Radespiel, U., & Zimmermann, E. (2017). **Sleeping site ecology, but not sex, affect ecto- and hemoparasite risk, in sympatric, arboreal primates (*Avahi occidentalis* and *Lepilemur edwardsi*).** *Frontiers in Zoology*, 14

Hülskötter, K., Schmidtke, D., Dubicanac, M., Siesenop, U., Zimmermann, E., Gerhauser, I., Baumgärtner, W., & Herder, V. (2017). **Spontaneous listeriosis in grey mouse lemurs (*Microcebus murinus*), but not in Goodman's mouse lemurs (*Microcebus lehilahytsara*) of the same colony.** *Veterinary Microbiology*, 208, 94-96. doi:10.1016/j.vetmic.2017.07.023

Kappeler, P. M., Cuozzo, F. P., Fichtel, C., Ganzhorn, J. U., Gursky-Doyen, S., Irwin, M. T., Ichino, S., Lawler, R., Nekaris, K. A., Ramanamanjato, J. B., Radespiel, U., Sauther, M. L., Wright, P. C., & Zimmermann, E. (2017). **Long-term field studies of lemurs, lorises, and tarsiers.** *Journal of Mammalogy*, 98(3), 661-669. doi:10.1093/jmammal/gyx013

Klaus, A., Zimmermann, E., Röper, K. M., Radespiel, U., Nathan, S., Goossens, B., & Strube, C. (2017). **Co-infection patterns of intestinal parasites in arboreal primates (proboscis monkeys, *Nasalis larvatus*) in Borneo.** *International Journal for Parasitology: Parasites and Wildlife*, 6(3), 320-329. doi:10.1016/j.ijppaw.2017.09.005

Konerding, W. S., Zimmermann, E., Bleich, E., Hedrich, H. J., & Scheumann, M. (2017). **The head turn paradigm to assess auditory laterality in cats: influence of ear position and repeated sound presentation.** *PeerJ*, 5, e3925. doi:10.7717/peerj.3925

Scheumann, M., Linn, S., & Zimmermann, E. (2017). **Vocal greeting during mother-infant reunions in a nocturnal primate, the gray mouse lemur (*Microcebus murinus*).** *Scientific Reports*, 7(1), 10321. doi:10.1038/s41598-017-10417-8

Scheumann, M., Hasting, A. S., Zimmermann, E., & Kotz, S. A. (2017). **Human novelty response to emotional animal vocalizations: effects of phylogeny and familiarity.** *Frontiers in Behavioral Neuroscience*, 11, 204. doi:10.3389/fnbeh.2017.00204

## Books

### 2018

Zimmermann, E. (2018). **High frequency/ultrasonic Communication in Basal Primates, the Mouse and Dwarf Lemurs of Madagascar.** In S. M. Brudzynski (Ed.), *Handbook of Ultrasonic Vocalizations* (Vol. 1, pp. 521-533). London: Academic Press.

## [Articles in peer reviewed journals](#)

### [Abstracts of international conferences 2017 - 1999](#)

### [Books and Contributions to books](#)

#### Books

Lehman S.; Radespiel U.; Zimmermann E. (2016): **The Dwarf and Mouse Lemurs of Madagascar.** Cambridge studies in biological and evolutionary anthropology Band 73; Cambridge University Press, Cambridge, 552 pp, ISBN 9781107075597

Altenmüller E.; Schmidt S.; Zimmermann E. (2013): **Evolution of Emotional Communication: from Sounds in Nonhuman Mammals to Speech and Music in Man.** Oxford University Press, Oxford, pp. 376.

Zimmermann E.; Newman J.D; Jürgens U. (1995): **Current Topics in Primate Vocal Communication.** Plenum Press, New York, 286 pp; ISBN 978-1-4757-9930-9

Zimmermann, E. (1986): **Breeding Terrarium Animals.** T.F.H. Publications, Inc., New Jersey, 384 p, ISBN 9780866221825

Zimmermann, E. (1983): **Das Züchten von Terrarientieren.** Kosmos-Franckh-Verlag, Stuttgart, 256 p, ISBN 9783440052181

#### Contributions to books

### 2016

Zimmermann, E. (2016): **Acoustic divergence in communication of cheirogaleids with special emphasis to mouse lemurs** In: Lehman, S. M.; Radespiel, U.; Zimmermann, E. (eds.): *The dwarf and mouse lemurs of Madagascar: biology, behavior, and conservation biogeography of the Cheirogaleidae.* Cambridge studies in biological and evolutionary anthropology, Band 73; Cambridge University Press, Cambridge, 2016, 405-421  
[ISBN 9781107075597](#)

Lehman, S.M.; Radespiel U.; Zimmermann E. (2016): **Conservation biology of the Cheirogaleidae: Future research directions** In: Lehman, S.M.; Radespiel, U.; Zimmermann, E. (eds.): *The Dwarf and Mouse Lemurs of Madagascar: Biology, Behavior and Conservation Biogeography of the Cheirogaleidae.* Cambridge Studies in Biological and Evolutionary Anthropology, Band 73; Cambridge U.K.: Cambridge University Press, 2016, 520-540  
[ISBN 9781107075597](#)

Zimmermann, E.; Radespiel, U.; Mestre-Francés, N.; Verdier, J.-M. (2016): **Life history variation in mouse lemurs (*Microcebus murinus*, *M. lehilahytsara*): the effect of environmental and phylogenetic determinants** In: Lehman, S. M.; Radespiel, U.; Zimmermann, E. (eds.): *The Dwarf and Mouse Lemurs of Madagascar: biology, behavior and conservation biogeography of the Cheirogaleidae.* Cambridge Studies in Biological and Evolutionary Anthropology, Band 73; Cambridge: Cambridge University Press, 2016, 174-194 [ISBN 9781107075597](#)

Kessler, S.E.; Radespiel, U.; Nash, L.T.; Zimmermann, E. (2016): **Modeling the origins of primate sociality: Social flexibility and kinship in mouse lemurs (*Microcebus* spp.)** In: Lehman, S.M.; Radespiel, U.; Zimmermann, E. (eds.): *The Dwarf and Mouse Lemurs of Madagascar: Biology, Behavior and Conservation Biogeography of the Cheirogaleidae.* Cambridge Studies in

## 2015

Snowdon, C. T., Zimmermann, E., Altenmüller, E. (2015): **Music evolution and neuroscience** In: Altenmüller, E.: *Music, Neurology, and Neuroscience: Evolution, the Musical Brain, Medical Conditions, and Therapies*. Progress in Brain Research, Band 217; Amsterdam: Elsevier, 2015, 17-34 [ISBN 978-0-444-63551-8](#)

Zimmermann, E.; Radespiel, U.: **Primate Life Histories** In: Henke, W.; Tattersall, I. (eds.): *Handbook of Paleoanthropology*, 2nd edition, Berlin: Springer, 2015, 1527-1592 [ISBN 978-3-642-39980-0](#)

## 2013

Altenmüller, E.; Schmidt, S.; Zimmermann, E. (2013): **A cross-taxa concept of emotion in acoustic communication: an ethological perspective** In: Altenmüller, E.; Schmidt, S.; Zimmermann, E. (eds.): *Evolution of Emotional Communication: from Sounds in Nonhuman Mammals to Speech and Music in Man*. Series in affective science; Oxford: Oxford University Press, 2013, 339-355 [ISBN 978-0-19-958356-0](#)

Altenmüller, E.; Schmidt, S.; Zimmermann, E. (2013): **Evolution of emotional communication: An introduction** In: Altenmüller, E.; Schmidt, S.; Zimmermann, E. (eds.): *Evolution of Emotional Communication: from Sounds in Nonhuman Mammals to Speech and Music in Man*. Series in affective science; Oxford: Oxford University Press, 2013, ix-xiv [ISBN 978-0-19-958356-0](#)

Nash, L.T.; Zimmermann, E.; Butynski, T.M. (2013): **Galago senegalensis Northern Lesser Galago (Senegal Lesser Galago, Senegal Lesser Bushbaby)** In: Butynski, T.; Kingdon, J.; Kalina, J. (eds.): *Primates. Mammals of Africa*, Band 2; London: Bloomsbury Publishing, 2013, 425-429 ISBN 978-1-4081-2252-5

Zimmermann, E. (2013): **Primate serenades: call variation, species diversity and adaptation in nocturnal strepsirhines** In: Masters, J.; Gamba, M.; Génin, F. (eds.): *Leaping ahead: Advances in Prosimian Biology*; New York: Springer, 2013, 287-295 [ISBN 978-1-4614-4511-1](#)

Zimmermann, E.; Leliveld, L.; Schehka, S. (2013): **Toward the evolutionary roots of affective prosody in human acoustic communication: a comparative approach to mammalian voices** In: Altenmüller, E.; Schmidt, S.; Zimmermann, E. (eds.): *Evolution of Emotional Communication: from Sounds in Nonhuman Mammals to Speech and Music in Man*. Series in affective science; Oxford: Oxford University Press, 2013, 116-132 [ISBN 978-0-19-958356-0](#)

## 2010

Joly-Radko, M.; Zimmermann, E. (2010): **Seasonality in gum and honeydew feeding in gray mouse lemurs** In: Burrows, A. (eds.): *The evolution of exudativory in primates*; 1st edition, New York: Springer, 2010, 141-153 ISBN 1441966609

Zimmermann, E. (2010): **Vocal expression of emotion in a nocturnal prosimian primate group, mouse lemurs** In: Brudzynski, S.: *Handbook of mammalian vocalization: an integrative neuroscience approach*; 1st edition, London: Academic, 2010, 215-225 [ISBN 0123745934](#)

## 2007

Scheumann, M.; Rabesandratana, A.; Zimmermann, E. (2007): **Predation, communication and cognition in lemurs** In: Gursky, S. L. (ed.): *Primate anti-predator strategies*; New York: Springer, 2007, 100-126 ISBN 0387348077

Zimmermann, E.; Radespiel, U. (2007): **Primate life histories** In: Henke, W.; Tattersall, I.: *Primate Evolution and Human Origins*. Handbook of Paleoanthropology, Band 2; Berlin: Springer, 2007, 1163-1205 ISBN 3540324704

## 2006

Olivieri, G.; Radespiel, U.; Randrianambinina, R.; Rasoloharijaona, S.; Andrianarivo, C.; Rakotondravony, D.; Rakotosamimanana, B.; Ramilijaona, O.; Raminosoa, N.; Zimmermann, E. (2006): **Biodiversité et évolution des lémuriers nocturnes: un programme de collaboration germano-malgache** In: Schwitzer, C. (ed.): *Proceedings of the German-Malagasy Research Cooperation in Life and Earth Sciences*; Berlin: Concept Verlag, 2006, 113-125 ISBN 3-00-018520-8

## 2001

Zimmermann, E. (2001): **Dialects in lemurs** In: Macdonald D. (ed.): *The New Encyclopaedia of Mammals*; Oxford: Oxford University Press, 2001, 319

Schmelting, B.; Ehresmann, P.; Lutermann, H.; Radrianambinina, B.; Zimmermann, E. (2001): **Reproduction of two sympatric mouse lemur species (*Microcebus murinus* and *M. ravelobensis*) in north-west Madagascar: First results of a long term study** In: Lourenço, W.R.; Goodman, S.M. (eds.): *Diversity and Endemism in Madagascar*; Paris: Mémoire de la Société de Biogéographie, 2000, 165-175

## 1995

Zimmermann, E. (1995): **Acoustic communication in nocturnal prosimians** In: Alterman, L.; Doyle, G.A.; Izard, M.K. (eds.): *Creatures of the Dark. The nocturnal Prosimians*; New York: Springer US, 1995, 311-330 [ISBN 978-1-4419-3250-1](#)

Zimmermann, E. (1995): **Loud calls in nocturnal prosimians: Structure, evolution and ontogeny** In: Zimmermann, E.; Newman, J.D.; Jürgens, U. (eds.): *Current Topics in Primate Vocal Communication*; New York: Springer US, 1995, 47-72 [ISBN 978-1-4757-9932-3](#)



## 1992

Binz, H.; Zimmermann, E.; Rahmann, H. (1992): **Development of sound representation in the auditory cortex of tree shrews (*Tupaia belangeri*): A [14C]-2DG study.** In: Gonzales-Lima, F.; Finkenstaedt, T.; Scheich, H. (eds.): *NATO Advanced Research Workshop, Advances in metabolic mapping techniques for brain imaging of behavioral and learning functions*; Dordrecht: Kluwer Academic Publisher, 1992, 281-297 [ISBN 978-0-7923-1947-4](#)

Zimmermann, E. (1992): **Vocal communication by nonhuman primates** In: Jones, S.; Martin, R.D.; Pilbeam, D. (eds.): *The Cambridge Encyclopedia of Human Evolution*; Cambridge: Cambridge University Press, 1992, 124-127

## 1990

Zimmermann, E. (1990): Behavioral signals and reproduction modes in poison-dart frogs (Dendrobatidae) In: Hanke, W. (eds.): *Progress in Zoology. Physiology and Biology of Amphibians*, Band 38; Stuttgart: Gustav Fischer Verlag, 1990, 61-75

### [Editorial board](#)

- Primate Biology (since 2014)
- PLoS One (since 2014)
- Peer Journal (since 2014)
- Interaction studies (since 2004)
- Zoology - Analysis of Complex Systems (1993 - 1999)

### [Awards & grants](#)

- Research grant from European Community's 7th Framework Programme (FP7/2007-2013) under grant agreement n° 278486: DEVELAGE: genomic, morphological and behavioral evaluation of the mouse lemur, an emerging new primate model for brain aging research (in collaboration with J.-M. Verdier): since 2012
- Research grant MWK NS (PhD Programm Hearing ): 2009 - 2012
- Small research grants from private donors: since 2008
- Research grant by BIOPAT e.V.: 2008
- Research grant from EU (Marie-Curie Actions) : 2006 - 2009
- Research grants from Volkswagen Foundation: 2003 - 2008 (projects I/72 968, I/76 828)
- Scientific exchange grants by the DAAD, including PROCOPE : since 1997
- Heisenberg fellow of the DFG: 1992-1996
- Research grants from DFG: since 1984 (previous projects ZI 345/15, ZI 345/16)
- Fellow of the Studienstiftung des Deutschen Volkes: 1983-1985

### [Review for](#)

#### **Funding Agencies**

National Science Foundation (USA), National Institute of Health (NIH, USA), The Leakey Foundation (USA), Claude Leon Foundation (SA), South African National Science Foundation, Belgian National Science Foundation; Polish National Science Foundation, Alexander von Humboldt Stiftung, Deutsche Herzstiftung, German Research Foundation (DFG), Volkswagen-Stiftung, Leopoldina, Society for Technical Cooperation (GTZ and ATSAF), International Union for the Conservation of Nature, German Academic Exchange Council (DAAD), Schweizerischer Nationalfond zur Förderung von Wissenschaften (SNF), Studienstiftung des Deutschen Volkes, Cusanus Werk, Studienwerk Villigst, Bundesamt für Naturschutz

#### **Professional journals**

Animal Behaviour, American Journal of Primatology, American Journal of Mammalogy, American Journal of Physical Anthropology, Biology Letters, BMC Evolutionary Biology, Behaviour, Current Anthropology, Current Biology, Ethology, Folia primatologica, Functional Ecology, International Journal of Primatology, Journal of the Acoustic Society of America, Journal of Neuroscience Methods, Musicae Scientia, Nature Communication, Naturwissenschaften, Oecologia, PlosOne, Primates, Proceedings of the Royal Society B, Scientific Report, Studies on Neotropical Fauna and Flora, Salamandra, Tierärztliche Wochenschrift, Zoologischer Anzeiger, Zoologische Reihe (Mitt. Mus. Naturk. Berlin)

### [Organizer/Co-organizer of the following workshops, symposia or conferences](#)

#### **2013**

International Prosimian Congress, Ranomafana, Madagascar, Symposium: Prosimian Voices- Adaptation and Diversity with Claudia Fichtel (DPZ, Göttingen)

#### **2010**

International Symposium Evolution of emotional communication 2: from animal sounds to speech and music in man with Eckart Altenmüller (HMTH), April, Reisenburg

XVII Congress of the International Primatological Society, September, Kyoto, Japan, Symposium: Evolution of lateralization in primates: current insights from prosimians to humans with Cathérine Blois-Heulin (CNRS, Rennes)

#### **2009**

Organization of the XI. Meeting of the Society for Primatology, Hannover, TiHo together with Prof. Dr. Radespiel, Dr. Marine Joly,

## 2007

International Symposium Evolution of emotional communication 1: from animal sounds to speech and music in man with Sabine Schmidt (TiHo) and Eckart Altenmüller (HMTH), September, Hannover

Symposium Ecological and behavioral plasticity in prosimians with Ute Radespiel (TiHo), July, International Conference on the Prosimii, Ithala, South Africa

## 2005

Satellite-Symposium; Acoustics of emotions in nonhuman mammals and man with Sabine Schmidt (TiHo) and Eckart Altenmüller (HMTH), 6th Meeting of the German Neuroscience Society, February, Göttingen

## 2003

International Ethological Conference, August, Florianopolis, Brazil, Acoustic communication of emotions in nonhuman mammals and man with Sabine Schmidt (TiHo) and Eckart Altenmüller (HMTH)

## 1998

XVII Congress of the International Primatological Society, August, Antananarivo, Madagascar, Species diversity and speciation in strepsirhine primates (with Judith Masters, University of Pietermaritzburg, South Africa), preparation of a special volume for the International Journal of Primatology.

## 1996

International Senckenberg Conference: Global Biodiversity Research in Europe, December, Frankfurt, D, Bioacoustics as a tool in taxonomy, systematics and the assessment of biodiversity (with Gustav Peters, Museum Alexander König, Bonn)

## 1992

XIV Congress of the International Primatological Society, August, Strasbourg, F, Current Topics in Vocal Communication (with Uwe Jürgens, DPZ Göttingen, and John Newman, NICHD, Pollesville, USA), see in publication list

### [Services](#)

**Since 2016** Scientific board, E.P.H.E., Section des Sciences, de la Vie et de la Terre, Sorbonne, Paris

**2015 - 2017** Senator, University of Veterinary Medicine, Hannover

**2004 - 2016** Board of directors of the Center for Systems Neuroscience, Hannover

**2003 - 2012** Spokeswoman for the DFG Research Unit (FOR 499): Acoustic communication of emotions in nonhuman mammals and man (For499)

**1997 - 2005** Board of the DFG Graduiertenkolleg Perspectives of Primatology (GK 289)

**1998 - 2006** Advisory board of the German Primate Center (DPZ)

**1998 - 2001** President of the Society for Primatology (GfP)

**1994 - 2000** member of the Board of Directors of the IUCN-DAPTF

### [Membership in professional societies](#)

- 1994 Verband Deutscher Biologen
- 1993 Neurowissenschaftliche Gesellschaft
- 1992 Gesellschaft Deutscher Naturforscher und Ärzte
- 1991 American Association for the Advancement of Science
- 1989 Gesellschaft für Primatologie, (Society for Primatology)
- 1988 International Primatological Society
- 1988 Gesellschaft für Tropenökologie, (Society for Tropical Ecology)
- 1983 Deutsche Zoologische Gesellschaft, (German Zoological Society)
- 1980 Ethologische Gesellschaft, (Ethological Society)
- 1978 Association for the Study of Animal Behavior

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