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EDUCATION

Max Planck Institute for Evolutionary Anthropology & University of Leipzig, Leipzig, Germany

Ph.D. (rerum naturalium) in Biology (grade: magna cum laude), January 2004

Dissertation: Conflict management in wild chimpanzees.

Referees: Christophe Boesch (supervisor, MPI EVA), Peter Kappeler (German Primate Center), Frans de Waal (Emory University & Yerkes Primate Research Center)

University of Bielefeld, Bielefeld, Germany

Diploma (masters) in Biology (grade: sehr gut), February 1996

Thesis: Changes in the behaviour of captive chimpanzees during the integration of two conspecifics.

Referees: Hubert Hendrichs (supervisor, Bielefeld University) and Jürgen Döhl (Bielefeld University)

RESEARCH INTERESTS

Together with my co-PI Dr. Catherine Crockford and my research group, I investigate the evolution of the social mind in wild chimpanzees (*Pan troglodytes*) and other non-human primates, in particular bonobos (*Pan paniscus*), chacma baboons (*Papio ursinus*) and sooty mangabeys (*Cercocebus atys*). We examine the underpinning hormonal mechanisms, cognitive adaptations and according pathways in the brain that lead to higher net-benefits and how this translates into life history. We want to understand how individuals benefit from close social bonds and how these bonds affect cooperation, prosocial behaviour and theory of mind.

The ultimate goal of my research is to better understand the evolution of human sociality, cooperation, cognition, culture, communication and brain connectomics within an ecological framework by investigating the roots of these adaptations in humans' closest living relatives.

- Costs and benefits of group living in primates
- Cognitive mechanisms that underlie social behaviour
- Evolution of social cognition
- Hominoid evolution in brain pathways
- Evolutionary significance of social bonds
- Comparative primate behaviour, cognition, communication and brain connectomics
- One health – Sociality and Health Nexus

Methods used to investigate the topics above:

- Behavioural observations together with multivariate analysis methods
- Field experiments (play-back experiments, object presentation experiments)
- Hormone and neurotransmitter analysis from non-invasive sampling methods (e.g. faecal, urine, saliva)
- Health markers (e.g. neopterin, microbiome)
- Post-mortem brain scans using Diffusion MRI with tractography
- DNA analysis for genetic relationship of individuals
- Comparison between humans, apes, monkeys and non-primate mammals

PROFESSIONAL EMPLOYMENT:

- Since 10/2022 **Directeur de Recherche 1er class**, The Ape Social Mind Lab, Institute for Cognitive Sciences *Marc Jeannerod*, UMR 5229 CNRS / University of Lyon 1, Bron, France.
- 10/2021 – 9/2022 **Bridge Researcher Evolution of Brain Connectivity CNRS / Max Planck Society**, Institute for Cognitive Sciences *Marc Jeannerod*, UMR 5229 CNRS / University of Lyon 1, Bron, France.
- 4/2021 – 9/2021 **Research group leader (Taï Chimpanzee Project & Evolution of Brain Connectivity)**, German Centre for Integrative Biodiversity Research (iDiv), University of Leipzig & Max Planck Institute for Evolutionary Anthropology, Department of Human Behaviour, Ecology and Culture, Leipzig, Germany.
- 4/2020 – 3/2021 **Visiting Professor**, Kyoto University, Primate Research Center, Japan (**cancelled** due to Covid-19 pandemic)
- 12/2013 – 3/2021 **Research group leader (W2: equivalent to Associate Professor (US system), Reader (UK system))**. Max Planck Institute for Evolutionary Anthropology, Department of Primatology, Leipzig, Germany.
- 10/2011 – 11/2013 **Scientific staff**, Max Planck Institute for Evolutionary Anthropology, Department of Primatology, Leipzig, Germany.
- 1/2008 – 9/2011 **Leverhulme Fellow (Post-doc)**, School of Psychology, University of St Andrews, St Andrews, UK.
- 6/2004 – 10/2007 **Research Fellow (Post-doc)**, Department of Biology, University of Pennsylvania (UPENN), Philadelphia, PA, USA.
- 1/2004 – 5/2004 **Post-doc**, Max Planck Institute for Evolutionary Anthropology, Department of Primatology, Leipzig, Germany.

SCIENTIFIC / RESEARCH EXPERIENCE:

- 1/2019 – **Co-Founder of Max Planck Research Group: Evolution of Brain Connectivity.**
Cooperation between MPI for Evolutionary Anthropology: Catherine Crockford, Roman Wittig (Department of Primatology), Daniel Haun (Department of Comparative Cultural Psychology), Richard McElrath (Department of Human Behaviour, Ecology and Culture), Philipp Gunz (Department of Human Evolution); MPI for Human Cognitive and Brain Sciences: Angela Friederici, Alfred Anwander (Department of Neuropsychology), Nikolaus Weiskopf (Department of Neurophysics); Paul Flechsig Institute for Brain Sciences: Markus Morawski; and Robert Koch Institute: Fabian Leendertz.
- 1/2018 – 12/2021 **Member of DFG Researcher Unit: Sociality and Health in Primates (www.sohapi.org).**
Researcher Unit: Peter Kappeler (University of Göttingen, German Primate Center), Julia Ostner (University of Göttingen), Oliver Schülke (University of Göttingen), Rolf Daniel (University of Göttingen), Claudia Fichtel (German Primate Center), Christian Roos (German Primate Center), Fabian Leendertz (Robert Koch Institute), Sebastien Calvignac-Spencer (Robert Koch Institute), Tobias Deschner (MPI EVA), Catherine Crockford (MPI EVA), Roman Wittig (MPI EVA).
- 10/2014 – 9/2017 **Elected member, Scientific council of Max Planck Society.** Representing MPI EVA at the Human Science section.
- 1/2013 – **Director, Taï Chimpanzee Project (TCP), Côte d'Ivoire.** Scientific and administrative responsibility for TCP (www.taichimps.org)
- 3/2008 – 8/2010 **Assistant director, Budongo Conservation Field Station (BCFS), Uganda.** On site deputy function on behalf of the director, who is based half of the time in Kampala. Representative of the Scientific director, who is based in Scotland. Managing and developing the research of BCFS including supervision of field assistants and students, developing new research directions and managing the long-term data of the chimpanzee population.
- 2/2008 – 8/2011 **Post-doctoral research, Budongo Conservation Field Station, Uganda.** Project: Language and social cognition in wild chimpanzees: (a) the adaptive value of close bonds in chimpanzees (hormonal correlates of social bonds), and (b) the cognitive abilities of chimpanzees within the social domain. With Klaus Zuberbühler (University of St Andrews),

- Tobias Deschner (MPI EVA), Toni Ziegler (National Primate Research Center, Madison, WI) and Catherine Crockford (University of St Andrews).
- 11/2007 – 12/2007 **Visiting scientist School of Psychology, University of St Andrews, UK.** Project: Feasibility and preparation of a study on social intelligence with the chimpanzees at the Budongo Conservation Field Station, Uganda.
- 6/2004 – 10/2007 **Postdoctoral researcher Baboon Camp, Okavango Delta & Departments of Biology & Psychology, University of Pennsylvania (UPENN), USA.** Project 1: Cognitive underpinnings of competition in chacma baboons (*Papio hamadryas ursinus*). Project 2: Social correlates of stress hormones in chacma baboons. With Dorothy Cheney (UPENN), Robert Seyfarth (UPENN), Pat Whitten (Emory University) and Catherine Crockford (UPENN).
- 6/2004 – 12/2005 **Camp manager at Baboon Camp, Okavango Delta, Botswana.** Data collection for the above presented projects: daily behavioural observations, playback experiments and faecal sampling (incl. hormone extraction) on chacma baboons in the wild. In addition, managing and supervising two field assistants and 2 staff, building and maintenance of remote camp. With Dorothy Cheney (UPENN), Robert Seyfarth (UPENN), Catherine Crockford (UPENN) and Eva Wikberg.
- 1/2004 – 5/2004 **Postdoctoral researcher at Department of Primatology, Max Planck Institute for Evolutionary Anthropology (MPI EVA), Leipzig, Germany.** Pilot-study on non-invasive measurements of acute stress in primates. With Christophe Boesch (MPI EVA), Josep Call (MPI EVA) and Almuth Einspanier (Leipzig University).
- 6/1999 – 12/2003 **PhD student at Department of Primatology, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany.** Project: Conflict management in wild chimpanzees of the Taï National Park, Côte d'Ivoire. With Christophe Boesch (MPI EVA).
- 3/1996 – 5/1999 **Research fellow & camp manager at Taï Chimpanzee Project, Taï National Park, Côte d'Ivoire.** Data collection for the above presented project: daily focal sampling of chimpanzee behaviour in the wild. In addition, managing and supervising 15 field assistants and 10 graduate students, building and maintenance of 2 camps. With Christophe Boesch (MPI EVA & Basel University).
- 1/1995 – 7/1995 **Research fellow at Zoo Münster, Münster, Germany.** Project: Behavioural observation and supervision of the integration of two new conspecifics in a group of captive chimpanzees. With Hubert Hendrichs (Bielefeld University) and Christophe Boesch (Basel University).
- 6/1994 – 8/1994 **Research assistant at Department of Biology, University of Bielefeld, Bielefeld, Germany.** Project: Homing by path integration in the spider *Agelena labyrinthica*. With Peter Moller (Hunter College, CUNY, USA) and Peter Görner (Bielefeld University).
- 9/1993 – 11/1993 **Research assistant at National Institute of Amazon Research (INPA), Manaus, Brazil.** Project: Ecology of the floodplain areas of Rio Solimões and Rio Negro. With Maria Piedade (INPA) and Pia Parolin (MPI Limnology).

RESEARCH GRANTS & AWARDS

- 2021** Renewal: DFG research grant: Great Ape Health (Co-PI on grant lead by F. Leendertz: 700.000 €)
- 2019** MPS project funds (Presidential Funds): Hominoid Brain Connectomics (PI of Great Ape Faculty Unit: 1.000.000 € per year: **2019 – 2024** total of 6.000.000 €).
- 2018** DFG research grant: Great Ape Health (Co-PI on grant lead by F. Leendertz: 850.000 €)
- 2017** DFG research grant: Sociality and Health in Primates II – Project 7 (leading PI: WI 2637/3-1: 210.000 €)
- 2017** DFG research grant: Sociality and Health in Primates II – Project 6 (Co-PI with F Leendertz: WI 2637/4-2: 17.000 €)
- 2015** Co-PI for ERC starter grant Ape Attachment granted to PI C. Crockford (1.500.000 €)
- 2015** PhD research grant (Alexander Mielke) received from Wenner-Gren Foundation (supervisor role: 6000 US\$)
- 2015** Minerva PhD grant extension (Liran Samuni) 12 months (supervisor: 14.400 €)
- 2014** DFG research grant: Sociality and Health in Primates – Project 1 (Co-Investigator with Dr F Leendertz & Dr T Deschner)
- 2013** EAZA Ape Conservation Fund together with Zoo Leipzig and RKI, Berlin (22.000 €)
- 2013** PhD research grant (Anna Preis) received from Leakey Foundation (supervisor: 13.500 US\$)

- 2013** Minerva PhD grant (Liran Samuni) 24 months (supervisor: 28.800 €)
2012 negotiated budget for MPI EVA Research Group of 400.000 € per year: **2012 – 2019**
2010 Invited Guest of the Wissenschaftskolleg Berlin, Germany
2009 Research Grant received from the Wenner-Gren Foundation together with Dr C Crockford (Co-PI), Dr T Deschner and Dr K Zuberbuehler (Co-PI) (21.000 US\$)
2009 Research Grant received from the Leakey Foundation together with Dr C Crockford (Co-PI), Dr T Deschner and Dr K Zuberbuehler (Co-PI) (15.000 US\$)
2006 Research fellowship of the German Research Foundation – Deutsche Forschungsgemeinschaft (DFG) Research Fellowship WI 2637/2-1 (24 months: ~100.000 €)
2004 DFG conference grant (Conference of the International Primatological Society: WI 2637/1-1)

PUBLICATIONS (H-index = 44, i10-index = 99, total citation > 8000)

BOOKS

Boesch, C. & **Wittig, R. M.** (2019). The chimpanzees of the Tai forest: 40 years of research. Cambridge University Press.

JOURNAL: PEER REVIEWED

- Bortolato, T., Girard-Buttoz, C., Mundry, R., **Wittig, R. M.** & Crockford, C. (in press). Slow development of vocal sequences through ontogeny in wild chimpanzees (*Pan troglodytes verus*). *Developmental Sciences*.
- Gräßle, T., Crockford, C., Eichner, C. ... Weiskopf, N., Leedertz, F. H. & **Wittig, R. M.** (in press). Sourcing high tissue quality brains from deceased wild primates with known socio-ecology. *Methods in Ecology and Evolution*.
- Bründl, A., Girard-Buttoz, C., Bortolato, T., Samuni, L., Grampp, M., Löhrich, T., Tkaczynski, P., **Wittig, R. M.** & Crockford, C. (2022) Maternal effects on the development of vocal communication in wild chimpanzees. *iSciences*, 25(10): 105152.
- Ellis, S., Johnston, R. A., Cant, M. A., ... **Wittig, R. M.** & Croft, D. P. (2022). [Patterns and consequences of age-linked change in local relatedness in animal societies](https://doi.org/10.1038/s41559-022-01872-2). *Nature Ecology and Evolution*, <https://doi.org/10.1038/s41559-022-01872-2>.
- Fontserè, C., Kuhlwilm, M., Morcillo-Suarez, C., ... Wittig, R. M., ... Lizano, E., Arandjelovic, M., & Marques-Bonet, T. (2022). [Population dynamics and genetic connectivity in recent chimpanzee history](#). *Cell Genomics*, 2(6): 100133.
- Girard-Buttoz, C., Bortolato, T., Laporte, M., Grampp, M., Zuberbühler, K., **Wittig R. M.** & Crockford, C. (2022) Population specific call order in chimpanzee greeting vocalisations. *iScience*, 25(9): 104851.
- Girard-Buttoz, C., Zaccarella, E., Bortolato, T., Friederici, A. D., **Wittig, R. M.** & Crockford, C. (2022). [Chimpanzees produce diverse vocal sequences with ordered and recombinatorial properties](#). *Communications Biology*, 5: 410.
- Patrono, L. V., Röthemeier, C., Kouadio, L., Couacy-Hymann, E., **Wittig, R. M.**, Calvignac-Spencer, S., & Leedertz, F. H. (2022). [Non-invasive genomics of respiratory pathogens infecting wild great apes using hybridisation capture \(advance online\)](#). *Influenza and Other Respiratory Viruses*, 12984.
- Schülke, O., Anzà, S., Crockford, C., De Moor, D., Deschner, T., Fichtel, C., Gogarten, J. F., Kappeler, P. M., Manin, V., Müller-Klein, N., Prox, L., Sadoughi, B., Touitou, S., **Wittig, R. M.** & Ostner, J. (2022). [Quantifying within-group variation in sociality—covariation among metrics and patterns across primate groups and species](#). *Behavioral Ecology and Sociobiology*, 76: 50.
- Grawunder, S., Uomini, N., Samuni, L., Bortolato, T., Girard-Buttoz, C., **Wittig, R. M.** & Crockford, C. (2022). [Chimpanzee vowel-like sounds and voice quality suggest formant space expansion through the hominoid lineage](#). *Philosophical Transactions of the Royal Society of London, Series B: Biological Sciences*, 377(1841): 20200455.
- Bründl, A. C., Tkaczynski, P. J., Kohou, G. N., Boesch, C., **Wittig, R. M.** & Crockford, C. (2022). [Response to the commentary 'Becoming uniquely human? Comparing chimpanzee to human infancy'](#). *Developmental Science*, 25(1): e13143.
- Lemoine, S., Samuni, L., Crockford, C. & **Wittig, R.M.** (2022). Parochial cooperation in wild chimpanzees: a model to explain the evolution of parochial altruism. *Philosophical Transactions of the Royal Society of London, Series B: Biological Sciences*, 377(1851): 20210149.
- Grawunder, S., Uomini, N., Samuni, L., Bortolato, T., Girard-Buttoz, C., **Wittig, R. M.**, & Crockford, C. (2022). Chimpanzee vowel-like sounds and voice quality suggest formant space expansion through the hominoid lineage. *Philosophical Transactions of the Royal Society of London, Series B: Biological Sciences*, 377(1841): 20200455.

- Surbeck, M., Girard-Buttoz, C., Samuni, L., Boesch, C., Fruth, B., Crockford, C., **Wittig, R.M.** & Hohmann, G. (2021) Attractiveness of female sexual signaling predicts differences in female grouping patterns between bonobos and chimpanzees. *Communications Biology*, 4:1119.
- Hockings, K., Mubemba, B., Avanzi, C., [...], Ulrich, M., Zoubi, H., Cole, S., **Wittig, R. M.**, Calvignac-Spencer, S., & Leendertz, F. H. (2021). Leprosy in wild chimpanzees (advance online). *Nature*.
- Gogarten, J. F., Rühlemann, M., Archie, E., Tung, J., Akoua-Koffi, C., Bang, C., Deschner, T., Muyembe-Tamfun, J.-J., Robbins, M. M., Schubert, G., Surbeck, M., **Wittig, R. M.**, Zuberbühler, K., Baines, J. F., Franke, A., Leendertz, F. H., & Calvignac-Spencer, S. (2021). Primate phageoms are structured by superhost phylogeny and environment. *Proceedings of the National Academy of Sciences of the United States of America*, 118 (15) e2013535118
- Barratt, C. D., Lester, J. D., Gratton, P., [...], Wessling, E. G., Willie, J., **Wittig, R. M.**, Yoshihiro, N., Yuh, Y. G., Yurkiw, K., Boesch, C., Arandjelovic, M., & Kühl, H. S. (2021). Quantitative estimates of glacial refugia for chimpanzees (*Pan troglodytes*) since the Last Interglacial (120,000 BP) (advance online). *American Journal of Primatology*, e23320.
- Lowry, B. E., **Wittig, R. M.**, Pittermann, J., & Oelze, V. M. (2021). Stratigraphy of stable isotope ratios and leaf structure within an African rainforest canopy with implications for primate isotope ecology. *Scientific Reports*, 11: 14222
- Bründl, A. C., Tkaczynski, P. J., Kohou, G. N., Boesch, C., **Wittig, R. M.**, & Crockford, C. (2021). Response to the commentary 'Becoming uniquely human? Comparing chimpanzee to human infancy' (advance online). *Developmental Science*, e13143.
- Kopp, K. S., Ebel, S. J., **Wittig, R. M.**, Haun, D. B. M., & Crockford, C. (2021). Small mirrors do the trick: A simple, but effective method to study mirror self-recognition in chimpanzees. *Animal Behavior and Cognition*, 8(3), 391-404.
- Bueno de Mesquita, C. P., Nichols, L. M., Gebert, M. J., [...], Vergnes, V., Wessling, E. G., **Wittig, R. M.**, Yuh, Y. G., Yurkiw, K., [...], Fierer, N., Arandjelovic, M., & Dunn, R. R. (2021). Structure of Chimpanzee Gut Microbiomes across Tropical Africa. *mSystems*, 6(3): e01269-20.
- Girard-Buttoz, C., Tkaczynski, P. J., Samuni, L., Fedurekt, P., Gomes, C. M., Löhrich, T., Manin, V., Preis, A., Valé, P. D., Deschner, T., **Wittig, R. M.**, & Crockford, C. (2021). Early maternal loss leads to short but not long-term effects on diurnal cortisol slopes in wild chimpanzees. *eLife*, 10: e64134.
- Power, R. C., **Wittig, R. M.**, Stone, J. R., Kupczik, K., & Schulz-Kornas, E. (2021). The representativeness of the dental calculus dietary record: insights from Tai chimpanzee faecal phytoliths. *Archaeological and Anthropological Sciences*, 13: 104.
- Stuhlträger, J., Schulz-Kornas, E., Kullmer, O., Janocha, M. M., **Wittig, R. M.**, & Kupczik, K. (2021). Dental wear patterns reveal dietary ecology and season of death in a historical chimpanzee population. *PLoS One*, 16(5): e0251309.
- Wittig, R. M.** (2021). Kulturen von Schimpansen - eine Spurensuche. In L. Giemsch, & M. N. Haidle (Eds.), *Menschsein - Die Anfänge unserer Kultur* (pp. 122-134). Nünnerich-Asmus Verlag.
- Fedurek, P., Tkaczynski, P. J., Hobaiter, C., Zuberbühler, K., **Wittig, R. M.**, & Crockford, C. (2021). The function of chimpanzee greeting calls is modulated by their acoustic variation. *Animal Behaviour*, 174, 279-289.
- Fontseré, C., Alvarez-Estape, M., Lester, J. D., [...], Stewart, F., Vergnes, V., **Wittig, R. M.**, Kühl, H. S., Marques-Bonet, T., Hughes, D. A., & Lizano, E. (2021). Maximizing the acquisition of unique reads in noninvasive capture sequencing experiments. *Molecular Ecology Resources*, 21(3): 13300, pp. 745-761.
- Wertheim, J. O., Hostager, R., Ryu, D., [...], Sommer, V., Stoinski, T., Wessling, E. G., **Wittig, R. M.**, Yuh, Y. G., Leendertz, F. H., & Calvignac-Spencer, S. (2021). Discovery of novel herpes simplexviruses in wild gorillas, bonobos, and chimpanzees supports zoonotic origin of HSV-2. *Molecular Biology and Evolution*, msab072.
- Bründl, A. C., Tkaczynski, P. J., Kohou, G., Boesch, C., **Wittig, R. M.**, & Crockford, C. (2021). Systematic mapping of developmental milestones in wild chimpanzees. *Developmental Science*, 24(1): e12988.
- Colchero, F., Aburto, J., Archie, E., [...], Tung, J., Villavicencio, F., **Wittig, R. M.**, Wrangham, R., Zuberbühler, K., Vaupel, J., & Alberts, S. (2021). The long lives of primates and the 'invariant rate of ageing' hypothesis. *Nature Communications*, 12: 3666.
- Lester, J. D., Vigilant, L., Gratton, P., [...], Willie, J., **Wittig, R. M.**, Yuh, Y. G., Yurkiw, K., Zuberbuehler, K., Boesch, C., Kühl, H. S., & Arandjelovic, M. (2021). Recent genetic connectivity and clinal variation in chimpanzees. *Communications Biology*, 4: 283.

- Mielke, A., Preis, A., Samuni, L., Gogarten, J. F., Lester, J. D., Crockford, C., & **Wittig, R. M.** (2021). Consistency of social interactions in sooty mangabeys and chimpanzees. *Frontiers in Ecology and Evolution*, 8:603677.
- Samuni, L., Crockford, C. & **Wittig, R. M.** (2021). Group-level cooperation in chimpanzees is shaped by strong social ties. *Nature Communications*, 12:539.
- Valé, P. D., Béné, J.-C.-K., N'Guessan, A. K., Crockford, C., Deschner, T., Koné, I., Girard-Buttoz, C., & **Wittig, R. M.** (2021). Energetic management in wild chimpanzees (*Pan troglodytes verus*) in Tai National Park, Côte d'Ivoire. *Behavioral Ecology and Sociobiology*, 75: 1.
- McCarthy, M. S., Stephens, C. R., Dieguez, P., [...], Widness, J., **Wittig, R. M.**, Boesch, C., Kühl, H. S., & Arandjelovic, M. (2020). Chimpanzee identification and social network construction through an online citizen science platform (advance online). *Ecology and Evolution*.
- Eichner, C., Paquette, M., Mildner, T., Schlumm, T., Pleh, K., Crockford, C., **Wittig, R. M.**, Möller, H. E., Friederici, A. D., & Anwender, A. (2020). Increased sensitivity and signal-to-noise ratio in diffusion-weighted MRI using multi-echo acquisitions. *NeuroImage*, 221: 117172.
- Mubemba, B., Gogarten, J. F., Schuenemann, V. J., [...], Kühl, H. S., **Wittig, R. M.**, Leendertz, F. H., & Calvignac-Spencer, S. (2020). Geographically structured genomic diversity of non-human primate-infecting *Treponema pallidum* subsp. *pertenue*. *Microbial Genomics*, 6(11).
- Girard-Buttoz, C., Tkaczynski, P. J., Samuni, L., Fedurek, P., Gomes, C., Löhrich, T., Manin, V., Preis, A., Valé, P. D., Deschner, T., **Wittig, R. M.**, & Crockford, C. (2020). Early maternal loss affects diurnal cortisol slopes in immature but not mature wild chimpanzees. *bioRxiv*.
- Girard-Buttoz, C., Surbeck, M., Samuni, L., Boesch, C., Fruth, B., Crockford, C., Hohmann, G., & **Wittig, R. M.** (2020). Variable use of polyadic grooming and its effect on access to social partners in wild chimpanzees and bonobos. *Animal Behavior*, 168, 211-224.
- Crockford, C., Samuni, L., Vigilant, L., & **Wittig, R. M.** (2020). Postweaning maternal care increases male chimpanzee reproductive success. *Science Advances*, 6(38): eaaaz5746.
- Kalan, A. K., Kulik, L., Arandjelovic, M., [...], Willie, J., **Wittig, R. M.**, Yuh, Y. G., Zuberbühler, K., & Kühl, H. S. (2020). Environmental variability supports chimpanzee behavioural diversity. *Nature Communications*, 11(1): 4451.
- Oelze, V. M., **Wittig, R. M.**, Lemoine, S., Kühl, H. S., & Boesch, C. (2020). How isotopic signatures relate to meat consumption in wild chimpanzees: A critical reference study from Tai National Park, Côte d'Ivoire. *Journal of Human Evolution*, 146: 102817.
- Behringer, V., Preis, A., Wu, D., Crockford, C., Leendertz, S. A. J., **Wittig, R. M.**, & Deschner, T. (2020). Urinary cortisol increases during a respiratory outbreak in wild chimpanzees. *Frontiers in Veterinary Science*, 7: 485
- Tkaczynski, P. J., Mielke, A., Samuni, L., Preis, A., **Wittig, R. M.**, & Crockford, C. (2020). Long-term repeatability in social behaviour suggests stable social phenotypes in wild chimpanzees. *Royal Society Open Science*, 7(8): 200454
- Girard-Buttoz, C., Surbeck, M., Samuni, L., Tkaczynski, P. J., Boesch, C., Fruth, B., **Wittig, R. M.**, Hohmann, G., & Crockford, C. (2020). Information transfer efficiency differs in wild chimpanzees and bonobos, but not social cognition. *Proceedings of the Royal Society B: Biological Sciences*, 287(1929): 20200877
- Barratt, C. D., Lester, J. D., Gratton, P., [...], Willie, J., **Wittig, R. M.**, Yoshihiro, N., [...], Boesch, C., Arandjelovic, M., & Kühl, H. S. (2020). Late Quaternary habitat suitability models for chimpanzees (*Pan troglodytes*) since the Last Interglacial (120,000 BP). *bioRxiv*
- Gogarten, J. F., Rühlemann, M., Archie, E., [...], Surbeck, M., **Wittig, R. M.**, Zuberbühler, K., Baines, J. F., Franke, A., Leendertz, F. H., & Calvignac-Spencer, S. (2020). Primate phageomes are structured by superhost phylogeny and environment. *bioRxiv*
- Lemoine, S., Boesch, C., Preis, A., Samuni, L., Crockford, C. & **Wittig, R. M.** (2020). Group dominance increases territory size and reduces neighbor pressure in wild chimpanzees. *Royal Society Open Science*, 7(5): 200577.
- Patrono, L. V., Pléh, K., Samuni, L., Ulrich, M., Röthemeier, C., Sachse, A., Muschter, S., Nitsche, A., Couacy-Hymann, E., Boesch, C., **Wittig, R. M.**, Calvignac-Spencer, S., & Leendertz, F. H. (in press). Monkeypox virus emergence in wild chimpanzees reveals distinct clinical outcomes and viral diversity. *Nature Microbiology*.
- Fedurek, P., Tkaczynski, P., Asiimwe, C., Hobaiter, C., Samuni, L., Lowe, A. E., Dijrian, A. G., Zuberbühler, K., **Wittig, R. M.**, & Crockford, C. (2020). Maternal cannibalism in two populations of wild chimpanzees. *Primates*, 61, 181-187.

- Gillespie, T. R., Leendertz, F. H., The Great Ape Health Consortium, including authors, Deschner, T., Robbins, M. M., **Wittig, R. M.**, & others (2020). COVID-19: protect great apes during human pandemics. *Nature*, 579, 497-497.
- Mielke, A., Crockford, C. & **Wittig, R. M.** (2020). Predictability and variability of association patterns in sooty mangabeys. *Behavioral Ecology and Sociobiology*, 74: 46.
- Fröhlich, M., Müller, G., Zeiträg, C., **Wittig, R. M.**, & Pika, S. (2020). Begging and social tolerance: Food solicitation tactics in young chimpanzees (*Pan troglodytes*) in the wild. *Evolution and Human Behavior*, 41(2), 126-135.
- Riedel, J., Polansky, L., **Wittig, R. M.**, & Boesch, C. (2020). Social rank overrides environmental and community fluctuations in determining meat access by female chimpanzees in the Taï National Park, Côte d'Ivoire. *PeerJ*, 8: e8283.
- Gogarten, J. F., Calvignac-Spencer, S., Nunn, C. L., Ulrich, M., Saiepour, N., Nielsen, H. V., Deschner, T., Fichtel, C., Kappeler, P. M., Knauf, S., Müller-Klein, N., Ostner, J., Robbins, M. M., Sangmaneedet, S., Schülke, O., Surbeck, M., **Wittig, R. M.**, Sliwa, A., Strube, C., Leendertz, F. H., Roos, C., & Noll, A. (2020). Metabarcoding of eukaryotic parasite communities describes diverse parasite assemblages spanning the primate phylogeny. *Molecular Ecology*, 20, 204-215.
- Samuni, L., Tkaczynski, P. J., Deschner, T., Lorrach, T., **Wittig, R. M.**, & Crockford, C. (2020). Maternal effects on offspring growth indicate post-weaning juvenile dependence in chimpanzees. *Frontiers in Zoology*, 17, 1.
- Lemoine, S., Preis, A., Samuni, L., Boesch, C., Crockford, C. & **Wittig, R. M.** (2020). Between-group competition impacts reproductive success in wild chimpanzees. *Current Biology*, 30, 1-7.
- Samuni, L., Mielke, A., Preis, A., Crockford, C. & **Wittig, R. M.** (2019). Intergroup competition enhances chimpanzee (*Pan troglodytes verus*) in-group cohesion (advance online). *International Journal of Primatology*.
- Mielke, A., Crockford, C. & **Wittig, R. M.** (2019). Snake alarm calls as a public good in sooty mangabeys. *Animal Behaviour*, 158, 201-209.
- Fröhlich, M., Müller, G., Zeiträg, C., **Wittig, R. M.**, & Pika, S. (2019). Begging and social tolerance: Food solicitation tactics in young chimpanzees (*Pan troglodytes*) in the wild (advance online). *Evolution and Human Behavior*.
- Maibach, V., Langergraber, K., Leendertz, F. H., **Wittig, R. M.**, & Vigilant, L. (2019). Differences in MHC-B diversity and KIR epitopes in two populations of wild chimpanzees. *Immunogenetics*, 71(10), 617-633.
- McCarthy, M., Despres-Einspenner, M.-L., Farine, D. R., Samuni, L., Angedakin, S., Arandjelovic, M., Boesch, C., Dieguez, P., Havercamp, K., Knight, A., Langergraber, K. E., **Wittig, R. M.**, & Kühl, H. S. (2019). Camera traps provide a robust alternative to direct observations for constructing social networks of wild chimpanzees. *Animal Behaviour*, 157, 227-238.
- Fedurek, P., Tkaczynski, P., Asiimwe, C., Hobaiter, C., Samuni, L., Lowe, A. E., Dijrian, A. G., Zuberbühler, K., **Wittig, R. M.**, & Crockford, C. (2019). Maternal cannibalism in two populations of wild chimpanzees (advance online). *Primates*.
- Gogarten, J. F., Calvignac-Spencer, S., Nunn, C. L., Ulrich, M., Saiepour, N., Nielsen, H. V., Deschner, T., Fichtel, C., Kappeler, P. M., Knauf, S., Müller-Klein, N., Ostner, J., Robbins, M. M., Sangmaneedet, S., Schülke, O., Surbeck, M., **Wittig, R. M.**, Sliwa, A., Strube, C., Leendertz, F. H., Roos, C., & Noll, A. (2019). Metabarcoding of eukaryotic parasite communities describes diverse parasite assemblages spanning the primate phylogeny (advance online). *Molecular Ecology*.
- Stuhlträger, J., Schulz-Kornas, E., **Wittig, R. M.**, & Kupczik, K. (2019). Ontogenetic dietary shifts and microscopic tooth wear in western chimpanzees. *Frontiers in Ecology and Evolution*, 7: 298.
- Gogarten, J. F., Dux, A., Mubemba, B., Pléh, K., Hoffmann, C., Mielke, A., Müller-Tiburtius, J., Sachse, A., **Wittig, R. M.**, Calvignac-Spencer, S., & Leendertz, F. H. (2019). Tropical rainforest flies carrying pathogens form stable associations with social nonhuman primates. *Molecular Ecology*, 28(18), 4242-4258.
- Estienne, V., Cohen, H., **Wittig, R. M.**, & Boesch, C. (2019). Maternal influence on the development of nut-cracking skills in the chimpanzees of the Taï forest, Côte d'Ivoire (*Pan troglodytes verus*) (advance online). *American Journal of Primatology*, e23022.
- Samuni, L., Preis, A., Deschner, T., **Wittig, R. M.**, & Crockford, C. (2019). Cortisol and oxytocin show independent activity during chimpanzee intergroup conflict. *Psychoneuroendocrinology*, 104, 165-173.
- Behringer, V., Stevens, J. M. G., **Wittig, R. M.**, Crockford, C., Zuberbühler, K., Leendertz, F. H., & Deschner, T. (2019). Elevated neopterin levels in wild, healthy chimpanzees indicate constant investment in unspecific immune system. *BMC Zoology*, 4(2).

- Schulz-Kornas, E., Stuhlträger, J., Clauss, M., **Wittig, R. M.**, & Kupczik, K. (2019). Dust affects chewing efficiency and tooth wear in forest dwelling Western chimpanzees (*Pan troglodytes verus*). *American Journal of Physical Anthropology*, 169(1), 66-77.
- Preis, A., Samuni, L., Deschner, T., Crockford, C. F., & **Wittig, R. M.** (2019). Urinary cortisol, aggression, dominance and competition in wild, West African male chimpanzees. *Frontiers in Ecology and Evolution*, 7: 107.
- Kalan, A. K., Hohmann, G., Arandjelovic, M., [...] Willie, J., **Wittig, R. M.**, & Kühl, H. S. (2019). Novelty response of wild African apes to camera traps. *Current Biology*, 29(7), 1211-1217.
- Kühl, H. S., Boesch, C., Kulik, L., [...] **Wittig, R. M.**, Yuh, Y. G., Yurkiw, K., Zuberbuehler, K., & Kalan, A. K. (2019). Human impact erodes chimpanzee behavioral diversity. *Science*, 363(6434), 1453-1455.
- Kühl, H. S., Boesch, C., Kulik, L., [...] **Wittig, R. M.**, Yuh, Y. G., Yuh, Y. G., Yurkiw, K., & Kalan, A. K. (2019). Inclusive chimpanzee conservation—Response. *Science*, 364(6445), 1040-1041.
- Löhrrich, T., Behringer, V., **Wittig, R. M.**, Deschner, T., & Leendertz, F. H. (2018). The use of neopterin as a noninvasive marker in monitoring diseases in wild chimpanzees. *EcoHealth*, 15(4), 792-803.
- Wittig, R. M.** (2018). 40 years of research at the Tai Chimpanzee Project (advanced online). *Pan Africa News*.
- Samuni, L., Preis, A., Mielke, A., Deschner, T., **Wittig, R. M.**, & Crockford, C. (2018). Social bonds facilitate cooperative resource sharing in wild chimpanzees. *Proceedings of the Royal Society London B*, 285(1888): 20181643.
- Knauf, S., Gogarten, J. F., Schuenemann, V. J., [...] **Wittig, R. M.**, [...] Nieselt, K., Krause, J., & Calvignac-Spencer, S. (2018). Nonhuman primates across sub-Saharan Africa are infected with the yaws bacterium *Treponema pallidum* subsp. *pertenue*. *Emerging Microbes & Infections*, 7: 157.
- Samuni, L., Preis, A., Deschner, T., Crockford, C., & **Wittig, R.** (2018). Reward of labor coordination and hunting success in wild chimpanzees. *Communications Biology*, 1, e138.
- Preis, A., Samuni, L., Mielke, A., Deschner, T., Crockford, C., & **Wittig, R. M.** (2018). Urinary oxytocin levels in relation to post-conflict affiliations in wild male chimpanzees (*Pan troglodytes verus*). *Hormones and Behavior*, 105, 28-40.
- Mielke, A., Preis, A., Samuni, L., Gogarten, J. F., **Wittig, R. M.**, & Crockford, C. (2018). Flexible decision-making in grooming partner choice in sooty mangabeys and chimpanzees. *Royal Society Open Science*, 5: 172143.
- Wu, D., Behringer, V., **Wittig, R. M.**, Leendertz, F., & Deschner, T. (2018). Urinary neopterin levels increase and predict survival during a respiratory outbreak in wild chimpanzees (Tai National Park, Côte d'Ivoire). *Scientific Reports*, 8: 13346.
- Tagg, N., McCarthy, M., Dieguez, P., [...] **Wittig, R. M.**, Zuberbuehler, K., Kühl, H. S., & Boesch, C. (2018). Nocturnal activity in wild chimpanzees (*Pan troglodytes*): Evidence for flexible sleeping patterns and insights into human evolution. *American Journal of Physical Anthropology*, 166(3), 510-529.
- Gogarten, J. F., Davies, T. J., Benjamino, J., Gogarten, J. P., Graf, J., Mielke, A., Mundry, R., Nelson, M. C., **Wittig, R. M.**, Leendertz, F. H., & Calvignac-Spencer, S. (2018). Factors influencing bacterial microbiome composition in a wild non-human primate community in Tai National Park, Côte d'Ivoire (advance online). *The ISME Journal*.
- Patrono, L. V., Samuni, L., Corman, V. M., Nourifar, L., Röthemeier, C., **Wittig, R. M.**, Drosten, C., Calvignac-Spencer, S., & Leendertz, F. H. (2018). Human coronavirus OC43 outbreak in wild chimpanzees, Côte d'Ivoire, 2016. *Emerging Microbes & Infections*, 7: 118.
- Sonnweber, R., Araya-Ajoy, Y. G., Behringer, V., Deschner, T., Tkaczynski, P. J., Fedurek, P., Preis, A., Samuni, L., Zommers, Z., Gomes, C., Zuberbuehler, K., **Wittig, R. M.**, & Crockford, C. (2018). Circadian rhythms of urinary cortisol levels vary between individuals in wild male chimpanzees: A reaction norm approach. *Frontiers in Ecology and Evolution*, 6: 85.
- Adamescu, G. S., Plumpton, A. J., Abernethy, K. A., [...] **Wittig, R. M.**, [...] Gourlet-Fleury, S., Mulindahabi, F., & Beale, C. M. (2018). Annual cycles are the most common reproductive strategy in African tropical tree communities. *Biotropica*, 50(3), 417-430.
- Wittig, R. M.** (2018). Tai Chimpanzees. In J. Vonk, & T. K. Shackelford (Eds.), *Encyclopedia of Animal Cognition and Behavior*. Springer International Publishing.
- Grützmacher, K., Keil, V., Leinert, V., Legullion, F., Henlin, A., Couacy-Hyman, E., Köndgen, S., Lang, A., Deschner, T., **Wittig, R. M.**, & Leendertz, F. H. (2018). Human quarantine: Towards reducing infectious pressure on chimpanzees at the Tai Chimpanzee Project, Côte d'Ivoire. *American Journal of Primatology*, 80(1): e22619.

- Sirianni, G., **Wittig, R. M.**, Gratton, P., Mundry, R., Schüler, A., & Boesch, C. (2018). Do chimpanzees anticipate an object's weight? A field experiment on the kinematics of hammer-lifting movements in the nut-cracking Tai chimpanzees. *Animal Cognition*, 21(1), 109-118.
- Wu, D., Löhrich, T., Sachse, A., Mundry, R., **Wittig, R. M.**, Calvignac-Spencer, S., Deschner, T., & Leendertz, F. H. (2018). Seasonal and inter-annual variation of malaria parasite detection in wild chimpanzees. *Malaria Journal*, 17: 38.
- Wessling, E. G., Deschner, T., Mundry, R., Pruetz, J. D., **Wittig, R. M.**, & Kühl, H. S. (2018). Seasonal variation in physiology challenges the notion of chimpanzees (*Pan troglodytes verus*) as a forest-adapted species. *Frontiers in Ecology and Evolution*, 6: 60.
- Fröhlich, M., Müller, G., Zeiträg, C., **Wittig, R. M.**, & Pika, S. (2017). Gestural development of chimpanzees in the wild: The impact of interactional experience. *Animal Behaviour*, 134, 271-282.
- Crockford, C., **Wittig, R. M.**, & Zuberbühler, K. (2017). Vocalizing in chimpanzees is influenced by social-cognitive processes. *Science Advances*, 3(11): e1701742.
- Mielke, A., Samuni, L., Preis, A., Gogarten, J. F., Crockford, C. †, & **Wittig, R. M.** (2017). Bystanders intervene to impede grooming in Western chimpanzees and sooty mangabeys. *Royal Society Open Science*, 4: 171296.
- Köndgen, S., Calvignac-Spencer, S., Grützmacher, K., Keil, V., Mätz-Rensing, K., Nowak, K., Metzger, S., Kiyang, J., Becker, A. L., Deschner, T., **Wittig, R. M.**, Lankester, F., & Leendertz, F. H. (2017). Evidence for Human *Streptococcus pneumoniae* in wild and captive chimpanzees: A potential threat to wild populations. *Scientific Reports*, 7: 14581.
- Zimmermann, F., Köhler, S. M., Nowak, K., [...] **Wittig, R. M.**, Klee, S. R., & Leendertz, F. H. (2017). Low antibody prevalence against *Bacillus cereus* biovar anthracis in Tai National Park, Côte d'Ivoire, indicates high rate of lethal infections in wildlife. *PLoS Neglected Tropical Diseases*.
- Hoffmann, C., Zimmermann, F., Biek, [...] **Wittig, R. M.**, Calvignac-Spencer, S., & Leendertz, F. H. (2017). Persistent anthrax as a major driver of wildlife mortality in a tropical rainforest. *Nature*, 548(7665), 82-86.
- Surbeck, M., Girard-Buttoz, C., Boesch, C., Crockford, C., Fruth, B., Hohmann, G., Langergraber, K., Zuberbühler, K., **Wittig, R. M.**, & Mundry, R. (2017). Sex-specific association patterns in bonobos and chimpanzees reflect species differences in cooperation. *Royal Society Open Science*, 4: 161081.
- Surbeck, M., Boesch, C., Girard-Buttoz, C., Crockford, C., Hohmann, G. & **Wittig, R. M.** (2017). Comparison of male conflict behaviour in chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*), with specific regard to coalition and post-conflict behaviour. *American Journal of Primatology*, 79(6): e22641.
- Mossoun, A., Calvignac-Spencer, S., Anoh, A. E., [...] **Wittig, R. M.**, Leendertz, F., & Schubert, G. (2017). Bushmeat hunting and zoonotic transmission of Simian T-lymphotropic virus 1 in tropical West and Central Africa (advance online). *Journal of Virology*, 91(10): e02479-16.
- Fröhlich, M., Müller, G., Zeiträg, C., **Wittig, R. M.**, & Pika, S. (2017). Gestural development of chimpanzees in the wild: the impact of interactional experience (advance online). *Animal Behaviour*.
- Grützmacher, K., Keil, V., Leinert, V., Legullion, F., Henlin, A., Couacy-Hyman, E., Köndgen, S., Lang, A., Deschner, T., **Wittig, R. M.**, & Leendertz, F. (2017). Human quarantine: Towards reducing infectious pressure on chimpanzees at the Tai Chimpanzee Project, Côte d'Ivoire. *American Journal of Primatology*, doi: 10.1002/ajp.22619
- Samuni, L., Preis, A., Mundry, R., Deschner, T., Crockford, C., & **Wittig, R. M.** (2017). Oxytocin reactivity during intergroup conflict in wild chimpanzees. *Proceedings of the National Academy of Sciences of the United States of America*, 114(2), 268-273.
- Luncz, L., Proffitt, T., Kulik, L., Haslam, M., & **Wittig, R. M.** (2016). Distance-decay effect in stone tool transport by wild chimpanzees. *Proceedings of the Royal Society B: Biological Sciences*, 283(1845): 20161607.
- Wittig, R. M.**, Crockford, C., Weltring, A., Langergraber, K. E., Deschner, T., & Zuberbühler, K. (2016). Social support reduces stress hormone levels in wild chimpanzees across stressful events and everyday affiliations. *Nature Communications*, 10.1038/NCOMMS13361.
- Madinda, N. F., et al. (2016). Assessing host-virus codivergence for close relatives of merkel cell polyomavirus infecting african great apes. *Journal of Virology*, 90(19), 8531-8541.
- Antonation, K. S., et al. (2016). *Bacillus cereus* biovar anthracis causing anthrax in sub-saharan Africa: Chromosomal monophyly and broad geographic distribution. *PLOS Neglected Tropical Diseases*, 10(9): e0004923.
- Fröhlich, M., **Wittig, R. M.**, & Pika, S. (2016). Play-solicitation gestures in chimpanzees in the wild: Flexible adjustment to social circumstances and individual matrices. *Royal Society Open Science*, 3: 160278.

- Gogarten, J. F., Düx, A., Schuenemann, V. J., Nowak, K., Boesch, C., **Wittig, R. M.**, Krause, J., Calvignac-Spencer, S., & Leendertz, F. H. (2016). Tools for opening new chapters in the book of *Treponema pallidum* evolutionary history (advance online). *Clinical Microbiology and Infection*
- Kalan, A., Piel, A. K., Mundry, R., **Wittig, R. M.**, Boesch, C., & Köhl, H. S. (2016). Passive acoustic monitoring reveals group ranging and territory use: A case study of wild chimpanzees (*Pan troglodytes*). *Frontiers in Zoology*, 13: 34.
- Fröhlich, M., Kuchenbuch, P., Müller, G., Fruth, B., Furuichi, T., **Wittig, R. M.**, & Pika, S. (2016). Unpeeling the layers of language: Bonobos and chimpanzees engage in cooperative turn-taking sequences. *Scientific Reports*, 6: 25887.
- Kühl, H. S., Kalan, A. K., Arandjelovic, M., [...] **Wittig, R. M.**, Zuberbuehler, K., & Boesch, C. (2016). Chimpanzee accumulative stone throwing. *Scientific Reports*, 6: 22219.
- Fröhlich, M., **Wittig, R. M.**, & Pika, S. (2016). Should I stay or should I go? Initiation of joint travel in mother–infant dyads of two chimpanzee communities in the wild. *Animal Cognition*.
- Jirků, M., Votýpka, J., Petrželková, K. J., [...] **Wittig, R. M.**, [...] Ayala, F. J., Leendertz, F. H., & Lukeš, J. (2015). Wild chimpanzees are infected by *Trypanosoma brucei*. *International Journal for Parasitology: Parasites and Wildlife*, 4:277-282.
- Luncz, L. V., **Wittig, R. M.**, & Boesch, C. (2015). Primate archaeology reveals cultural transmission in wild chimpanzees (*Pan troglodytes verus*). *Philosophical Transactions: Biological Sciences*, 370:0140348.
- Power, R. C., Salazar García, D. C., **Wittig, R. M.**, Freiberg, M., & Henry, A. G. (2015). Dental calculus evidence of Tai Forest Chimpanzee plant consumption and life history transitions. *Scientific Reports*, 5: 15161.
- Hoppe, E. et al. (2015). Multiple cross-species transmission events of human adenoviruses (HAdV) during hominine evolution. *Molecular Biology and Evolution*, 32:2072-2084.
- Wittig, R.M.**, Crockford, C., Deschner, T. & Zuberbühler, K. (2015) Single aggressive interactions increase urinary glucocorticoid levels in wild male chimpanzees. *PLoS One*
- Wittig, R. M.** (2015). Aggression, eine natürliche Anpassung an Konkurrenzsituationen. In G. Hartung, & M. Herrgen (Eds.), *Interdisziplinäre Anthropologie: Jahrbuch 2/2014: Gewalt und Aggression* (pp. 92-96). Berlin [u.a.]: Springer.
- Crockford, C., **Wittig, R.M.** & Zuberbühler, K. (2015). An intentional vocalization draws others' attention: A playback experiment with wild chimpanzees. *Animal Cognition* 10.1007/s10071-014-0827-z.
- Cheney, D. L., Crockford, C., Engh, A. L., **Wittig, R. M.**, & Seyfarth, R. M. (2015). The costs of parental and mating effort for male baboons. *Behavioral Ecology and Sociobiology*, 69:303-312.
- Albrechtova, K., Papousek, I., Nys, H. M. d., [...] **Wittig, R. M.**, [...] Cizek, A., Leendertz, F. H., & Literak, I. (2014). Low rates of antimicrobial-resistant enterobacteriaceae in wildlife in Tai National Park, Cote d'Ivoire, surrounded by villages with high prevalence of multiresistant ESBL-producing *Escherichia coli* in people and domestic animals. *PLoS One* 9:e113548.
- De Nys, H.M., Calvignac-Spencer, S., Boesch, C., Dorny, P., **Wittig, R.M.**, Mundry, R. & Leendertz, F.H. (2014) Malaria parasite detection increases during pregnancy in wild chimpanzees. *Malaria Journal* 13:413
- Wilson, M. L., Boesch, C., Fruth, B., [...] **Wittig, R. M.**, Zuberbühler, K., & Wrangham, R. W. (2014) Lethal aggression in *Pan* is better explained by adaptive strategies than human impacts. *Nature* doi:10.1038/nature13727
- Power, R.C.F., Salazar-Garcia, D.C., **Wittig, R.M.** & Henry, A.G. (2014) Assessing use and suitability of scanning electron microscopy in the analysis of microremains in dental calculus. *Journal of Archaeological Science* 49:160-169.
- Langergraber, K.E., Rowney, C., Schubert, G., Crockford, C., Hobaiter, C., **Wittig, R.**, Wrangham, R.W., Zuberbühler, K. & Vigilant, L. (2014) How old are chimpanzee communities? Time to the most recent common ancestor of the Y-chromosome in highly patrilocal societies. *Journal of Human Evolution* 69:1-7.
- Wittig, R.M.**, Crockford, C., Langergraber, K.E. & Zuberbühler, K. (2014) Triadic social interactions operate across time: a field experiment with wild chimpanzees. *Proceedings of the Royal Society London B* 281:20133155.
- Langergraber, K.E., Rowney, C., Crockford, C., **Wittig, R.M.**, Zuberbühler, K. & Vigilant, L. (2014) Genetic analyses suggest no immigration of adult females and their offspring into the Sonso community of chimpanzees in the Budongo Forest Reserve, Uganda. *American Journal of Primatology*

- Wittig, R.M.**, Crockford, C., Deschner, T., Langergraber, K.E., Ziegler, T.E. & Zuberbühler, K. (2014) Food sharing is linked to urinary oxytocin levels and bonding in related and unrelated wild chimpanzees. *Proceedings of the Royal Society London B* **281**:20133096.
- Murthy, S., Couacy-Hymann, E., Metzger, S., Nowak, K., De Nys, H., Boesch, C., **Wittig, R.M.**, Jarvis, M.A., Leendertz, F.H. & Ehlers, B. (2013) Absence of frequent Herpesvirus transmission in non-human primate predator – prey system in the wild. *Journal of Virology* **87**:10651-10659.
- De Nys, H., Calvignac-Spencer, S., Thiessen, U., Boesch, C., **Wittig, R.M.**, Mundry, R. & Leendertz, F.H. (2013). Age-related effects on malaria parasite infection in wild chimpanzees. *Biology Letters* **9**:20121160.
- Crockford, C., **Wittig, R.M.**, Langergraber, K.E., Ziegler, T.E., Zuberbühler, K. & Deschner, T. (2013). Urinary oxytocin and social bonding in related and unrelated wild chimpanzees. *Proceedings of the Royal Society London B*. **280**:20122765.
- Crockford, C., **Wittig, R.M.**, Mundry, R. & Zuberbühler, K. (2012). Wild chimpanzees inform ignorant group members of danger. *Current Biology* **22**:142-146.
- Langergraber, K.E., Prüfer, K., Rowney, C., [...] **Wittig, R.M.**, [...] Zuberbühler, K., Pääbo, S. & Vigilant, L. (2012). Generation times in wild chimpanzees and gorillas suggest earlier divergence times in great ape and human evolution. *Proceedings of the National Academy of Sciences USA* **39**: 15716-15721.
- Wittig, R.M.** & Boesch, C. (2010). Receiving post-conflict affiliation from the enemy's friend reconciles former opponents. *PLoS ONE* **5(11)**:e13995.
- Silk, J.B., Beehner, J.C., Berman, T.J., Crockford, C., Engh, A.L., Moscovice, L.R., **Wittig, R.M.**, Seyfarth, R.M. & Cheney D.L. (2010). Strong and consistent social bonds enhance the longevity of female baboons. *Current Biology* **20**:1359-1361.
- Silk, J.B., Beehner, J.C., Berman, T.J., Crockford, C., Engh, A.L., Moscovice, L.R., **Wittig, R.M.**, Seyfarth, R.M. & Cheney D.L. (2010). Female chacma baboons form strong, equitable and enduring social bonds. *Behavioral Ecology and Sociobiology* **64**:1733-1747.
- Moscovice, L.R., DiFiorio, A., Crockford, C., Kitchen, D.M., **Wittig, R.**, Seyfarth, R.M. & Cheney, D.L. (2010). Hedging their bets? Male and female chacma baboons form friendships based on likelihood of paternity. *Animal Behaviour* **79**:1007-1015.
- Silk, J.B., Beehner, J.C., Berman, T.J., Crockford, C., Engh, A.L., Moscovice, L.R., **Wittig, R.M.**, Seyfarth, R.M. & Cheney D.L. (2009). The benefits of social capital: Close social bonds among female baboons enhance offspring survival. *Proceedings of the Royal Society B* **276**:3099-3104.
- Amati, S., Babweteera, F. & **Wittig, R.M.** (2008). Snare removal by a chimpanzee of the Sonso community, Budongo Forest (Uganda). *Pan African News* **15(1)**:6-8.
- Wittig, R.M.***, Crockford, C., Lehmann, J., Whitten, P.L., Seyfarth, R.M. & Cheney D.L. (2008). Focused grooming networks and stress alleviation in wild female baboons. *Hormones & Behavior* **54**:170-177.
- Boesch, C., Crockford, C., Herbinger, I., **Wittig, R.**, Moebius, Y. & Normand E. (2008). Intergroup conflicts among chimpanzees in the Tai National Park: Lethal violence and the female perspective. *American Journal of Primatology* **70**:519-532.
- Crockford, C., **Wittig, R.M.***, Whitten, P.L., Seyfarth, R.M. & Cheney, D.L. (2008). Social stressors and coping mechanisms in wild female baboons (*Papio hamadryas ursinus*). *Hormones & Behavior* **53**:254-265.
- Crockford, C., **Wittig, R.M.**, Seyfarth, R.M. & Cheney, D.L. (2007). Baboons eavesdrop to deduce mating opportunities. *Animal Behaviour* **73**:885-890.
- Wittig, R.M.**, Crockford, C., Wikberg, E., Seyfarth, R.M. & Cheney, D.L. (2007). Kin-mediated reconciliation substitutes for direct reconciliation in female baboons. *Proceedings of the Royal Society B* **274**:1109-1115.
- Wittig, R.M.**, Crockford, C., Seyfarth, R.M. & Cheney, D.L. (2007). Vocal support in Chacma baboons (*Papio hamadryas ursinus*). *Behavioral Ecology and Sociobiology* **61**:899-909.
- Wittig, R.M.** & Boesch, C. (2005). How to repair relationships – reconciliation in wild chimpanzees (*Pan troglodytes*). *Ethology* **111**:736–763.
- Wittig, R.M.** & Boesch, C. (2003). The choice of post-conflict interactions in wild chimpanzees (*Pan troglodytes*). *Behaviour* **140**:1527–1559.
- Wittig, R.M.** & Boesch, C. (2003). "Decision-making" in conflicts of wild chimpanzees (*Pan troglodytes*): An extension of the Relational Model. *Behavioral Ecology & Sociobiology* **54**:491–504.
- Wittig, R.M.** & Boesch C. (2003). Food competition and linear dominance hierarchy among female chimpanzees of the Tai National Park. *International Journal of Primatology* **24**:847–867.

REVIEW ARTICLES: PEER REVIEWED

- Schamberg, I., **Wittig, R. M.**, & Crockford, C. (2018). Call type signals caller goal: A new take on ultimate and proximate influences in vocal production (advance online). *Biological Reviews*.
- Gogarten, J.F. et al. (2016) Tools for opening new chapters in the book of *Treponema pallidum* evolutionary history (advance online). *Clinical Microbiology and Infection*.
- Gogarten, J.F. et al. (2014) The ecology of primate retroviruses – an assessment of 12 years of retroviral studies in the Taï National Park area, Côte d'Ivoire.
- Crockford, C., Deschner, T., Ziegler, T.E. & **Wittig, R.M.** (2014) The contribution of endogenous peripheral oxytocin measures to understanding the dynamics of social relationships: a review. *Frontiers in Behavioral Neuroscience*
- Fraser, O.N., Koski, S.E., **Wittig, R.M.** & Aureli, F. (2009). *Opinion Article*: Why are bystanders friendly to recipients of aggression? *Communicative and Integrative Biology* **2(3)**:1-7.

COMMENTARIES

- Wittig, R.M.** (2015). Aggression, eine natürliche Anpassung an Konkurrenzsituationen. *Interdisziplinäre Anthropologie* **2**:92-96.
- Wittig, R.M.** (2011). *Media Commentary*: A comprehensive guide to chimpanzee behaviour. Review of the audio-visual encyclopedia on 'Chimpanzee Behavior in the Wild'. *American Journal of Primatology* **73**.

JOURNALS: not peer reviewed

- Wittig, R.M.** (2002). Die anderen Vettern aus dem Wald – 25 Jahre Taï Schimpansen Projekt, Côte d'Ivoire, Westafrika. *Phylodrom Journal* **2**:49–53.
- Wittig, R.** (1997). Änderungen der Verhaltensprofile bei Schimpansen einer Gehegegruppe während der Integration zweier Artgenossen. *Mitteilungsblatt der Ethologischen Gesellschaft* **39**:54.

BOOK CHAPTERS & MONOGRAPHS

- Wittig, R. M.**, Mielke, A., Lester, J. D., & Crockford, C. (2021). Endurance and flexibility of close social relationships: Comparing chimpanzees (*Pan troglodytes verus*) and sooty mangabeys (*Cercocebus atys*). In L. M. Hopper, & S. R. Ross (Eds.), *Chimpanzees in context: A comparative perspective on chimpanzee behavior, cognition, conservation, and welfare* (pp.?). Chicago: The University of Chicago Press.
- Wittig, R. M.**, & Boesch, C. (2019). Demography and life history of five chimpanzee communities in Taï National Park. In *The chimpanzees of the Taï forest: 40 years of research* (pp. 125-140). Cambridge University Press.
- Wittig, R. M.**, & Boesch, C. (2019). Observation protocol and long-term data collection in Taï. In C. Boesch, & R. M. Wittig (Eds.), *The chimpanzees of the Taï forest: 40 years of research* (pp. 44-57). Cambridge: Cambridge University Press.
- Gone Bi, Z. B., & **Wittig, R. M.** (2019). Long-term diet of the chimpanzees (*Pan troglodytes verus*) in Taï National Park: inter-annual variations in consumption of some key food sources. In C. Boesch, & R. M. Wittig (Eds.), *The chimpanzees of the Taï forest: 40 years of research* (pp. 242-260). Cambridge: Cambridge University Press.
- Lemoine, S., Crockford, C., & **Wittig, R. M.** (2019). Spatial integration of unusually high numbers of immigrant females into the south group further support for the bisexually-bonded model in Taï chimpanzees. In C. Boesch, & R. M. Wittig (Eds.), *The chimpanzees of the Taï forest: 40 years of research* (pp. 159-177). Cambridge University Press.
- Mielke, A., Crockford, C., & **Wittig, R. M.** (2019). Rank changes in female chimpanzees in Taï National Park. In C. Boesch, & R. M. Wittig (Eds.), *The chimpanzees of the Taï forest: 40 years of research* (pp. 290-300). Cambridge University Press.
- Preis, A., Samuni, L., Deschner, T., Crockford, C., & **Wittig, R. M.** (2019). Group specific social dynamics affect urinary oxytocin levels in Taï male chimpanzees. In C. Boesch, & R. M. Wittig (Eds.), *The chimpanzees of the Taï forest: 40 years of research* (pp. 339-365). Cambridge: Cambridge University Press.
- Samuni, L., **Wittig, R. M.**, & Crockford, C. (2019). Adoption in the Taï chimpanzees costs, benefits, and strong social relationships. In C. Boesch, & R. M. Wittig (Eds.), *The chimpanzees of the Taï forest: 40 years of research* (pp. 141-158). Cambridge: Cambridge University Press.

- Wittig, R.M.**, Mielke, A., Lester, J. & Crockford, C. (**in press**). Endurance and flexibility of close social relationships: comparing chimpanzees (*Pan troglodytes verus*) and sooty mangabeys (*Cercocebus atys atys*). In C. Ross & L. Hopper (Eds.), *Chimpanzee in Context*: Chicago. Chicago University Press.
- Wittig, R. M.**, & Crockford, C. (**2018**). Chimpanzees: Investigating cognition in the wild. In N. Bueno-Guerra, & F. Amici (Eds.), *Field and laboratory methods in animal cognition* (pp. 115-145). Cambridge: Cambridge University Press.
- Crockford, C., Deschner, T., & **Wittig, R. M.** (**2017**). The role of oxytocin in social buffering: What do primate studies add? In R. Hurlemann, & V. Grinevich (Eds.), *Current Topics in Behavioral Neurosciences* (pp. 155-173). Berlin: Springer
- Wittig, R.M.** (**2016**). Ein guter Freund schützt vor Feinden – Die hormonellen und kognitiven Grundlagen von Freundschaften bei Schimpansen und deren Auswirkung auf aggressive Kontakte mit Nachbargruppen. In: *Gehirn zwischen Liebe und Krieg* (Fink, H. & Rosenzweig, R., editors), Münster: mentis, pp. 121-138.
- Wittig, R.M.** (**2016**). Der Austausch von Ressourcen und enge soziale Bindungen – Biologische Märkte bei freilebenden Schimpansen. In: *Arm und Reich – zur Ressourcenverteilung in prähistorischen Gesellschaften* (Meller, H., Hahn, H.P., Jung, R. & Risch, R., editors). Halle (Saale): Landesmuseum für Vorgeschichte, pp. 20-25.
- Wittig, R.M.** (**2015**). Führen Schimpansen Krieg? Aggression unter Schimpansen und deren Gründe – ein Diskurs. In: H. Meller & M. Schefzik (Eds.) *Krieg – eine archäologische Spurensuche*. Halle (Saale): Landesmuseum für Vorgeschichte.
- Zuberbuehler, K. & **Wittig, R.M.** (**2011**). Field experiments with non-human primates: A tutorial. In: *Field and laboratory methods in primatology: A practical guide, 2nd edition*, (Setchell, J.M. & Curtis, D.J., editors), Cambridge: Cambridge University Press, pp. 207-224.
- Wittig, R.M.** (**2010**). Function and cognitive underpinnings of post-conflict affiliation in wild chimpanzees. In: *Chimpanzee Mind* (Lohnsdorf, E., Ross, S. & Matsuzawa, T., editors), Chicago, IL, Chicago University Press, pp. 208-219.
- Kitchen, D.M., Cheney, D.L., Seyfarth, R.M., Beehner, J.C., Bergman, T.J., Crockford, C., Engh, A.L., Fischer, J. & **Wittig, R.M.** (**2009**). Costs and consequences of male aggression directed at female chacma baboons. In: *Male Coercion in Primates*, (Muller, M. & Wrangham, R., editors), Cambridge, MA: Harvard University Press, pp. 128-156.
- Wittig, R.M.** (**2004**). Conflict management in wild chimpanzees. *University of Leipzig, Leipzig* pp.160
- Wittig, R.** (**1996**) Änderungen der Verhaltensprofile bei Schimpansen einer Gehegegruppe während der Integration zweier Artgenossen. *University of Bielefeld, Bielefeld* pp.95

CONFERENCE / WORKSHOP PAPERS

KEYNOTE LECTURES

- Crockford, C. & **Wittig, R.M.** Primates in the field: Neuroendocrine modulation of behaviour. *Primate Brain Evolution Conference*, 25 – 29 September 2019, Erice, Italy, **2019**
- Wittig, R.M.** Within- and between-group competition in Tai Chimpanzees. *Symposium 40 Years Tai Chimpanzee Project*, 29 – 31 May 2019, Leipzig, Germany, **2019**
- Wittig, R.M.** The Tai Chimpanzee Project: Primate research and conservation in Africa - lessons from a long-term North-South cooperation. *Inaugural Congress of the African Primatological Society* 24 – 27 July 2017, Abidjan, Côte d'Ivoire, **2017**
- Wittig, R.M.** The effect of social bonds on the cost-benefit arithmetic of chimpanzees – behavioural, hormonal and experimental results. *Symposium of the Erasmus Mundus Network in Auditory Cognitive Neuroscience* 27 – 29 April 2017, Leipzig, GER, **2017**
- Wittig, R.M.** & Crockford, C. Friendships, cooperation and prosociality in wild chimpanzees. *Annual Conference of the International Society for the Study of Anthrozoology: "Exploring Human – Animal Interactions"* 7 – 11 July 2016, Barcelona, ESP, **2016**
- Wittig, R.M.** Culture, cognition, cooperation and conservation in wild chimpanzees: the Tai Chimpanzee Project. *Annual conference of the Society for Tropical Ecology: "Tropical ecosystems – between protection and production"*. 25 – 28 February 2014, München, GER, **2014**

SYMPOSIUM DURING INT. CONFERENCES

- Symposium (**Wittig, R.M.** & Surbeck, M.): Social Organization and Cooperation in the *Pan* Species – A Comparison. *Bi-annual conference of the International Primatological Society*. 19 – 25 August 2018, Nairobi, Kenya 2018.
- Symposium (**Wittig, R.M.**, Crockford, C., Deschner, T. & Jaeggi, A.): Links between oxytocin, bonds and cooperation in primates. *Bi-annual conference of the International Primatological Society*. 21 – 27 August 2016, Chicago, USA 2016.

INVITED CONFERENCE SPEAKER

- Wittig, R.M.** & Crockford, C. Between-group competition and out-group Violence in Wild Chimpanzees: evolutionary drivers of parochialism? Symposium: On the biology of economics and intergroup conflict – C.D.W. de Dreu. *NeuroPsychoEconomics*. Amsterdam 2020 (cancelled due to Covid 19)
- Wittig, R.M.** & Crockford, C. The link between cooperation and social bonds in *Pan* – an introduction to the symposium. Symposium: Social Organization and Cooperation in the *Pan* Species – A Comparison - R.M. Wittig and M. Surbeck. *Bi-annual conference of the International Primatological Society*. 19 – 25 August 2018, Nairobi, Kenya 2018.
- Wittig, R.M.** & Zuberbühler, K. Field experiments in primate research. Symposium: What's New in Primate Cognition Research: Expanding Research Settings, Sample Sizes, and Research Toolkits - M. Bohn and M. Allritz. *Bi-annual conference of the International Primatological Society*. 19 – 25 August 2018, Nairobi, Kenya 2018.
- Wittig, R.M.** & Boesch, C. Our ancient heritage in the last forest remnants. Max Planck Society Conference Series on Fundamental Research and Shaping the Future: *Initiating Change: Sustainability through Research*. 22 February 2017, Harnack-Haus, Berlin, GER, **2017**.
- Wittig, R.M.** & Crockford, C. Social bonds are associated with high urinary oxytocin and low urinary glucocorticoid patterns in chimpanzees. Symposium: Links between oxytocin, bonds and cooperation in primates – R.M. Wittig, C. Crockford, T. Deschner, A. Jaeggi. *Bi-annual conference of the International Primatological Society*. 21 – 27 August 2016, Chicago, USA 2016.
- Wittig, R.M.** Chimpanzee friends: formation, maintenance and benefits of social bonds in wild chimpanzees. *Chimpanzees in context*. 16 – 20 August 2016, Lincoln Park Zoo, Chicago, IL, USA, **2016**.
- Wittig, R.M.** Social bonds and resource exchange – bookkeeping in wild chimpanzees. *Mitteldeutsche Archäologentage*. 22 – 24 October 2015, Halle (Saale), GER, **2015**
- Wittig, R.M.** & Crockford, C. The cognitive component of conflict management – comparing monkeys and apes. *Behavior (Symposium: Primate cognition)*. 4 – 8 August 2013, Newcastle, UK, **2013**
- Crockford, C. & **Wittig, R.M.** Oxytocin involvement in bonding of unrelated chimpanzees. *Annual meeting of the Society of Behavioral Neuroendocrinology (young investigator award)*. 15 – 18 June 2012, Madison, WI, USA, **2012**
- Wittig, R.M.**, Crockford, C., Seyfarth, R.M. & Cheney, D.L. Baboons perceive grunts by an approaching female as a signal of benign intent. *International Primatological Society Meeting (Symposium: Meaning and function of primate vocalisations and gestures: monkeys and apes)*. 3 – 8 August 2008, Edinburgh, Scotland, UK, **2008**
- Crockford, C., **Wittig, R.M.**, Whitten, P.L., Seyfarth, R.M. & Cheney, D.L. Grooming helps to manage raised faecal glucocorticoid levels in female baboons (*Papio hamadryas ursinus*). *International Primatological Society Meeting (Symposium: Hormones & behaviour)*. 3 – 8 August 2008, Edinburgh, Scotland, UK, **2008**
- Crockford, C., **Wittig, R.M.**, Seyfarth, R.M. & Cheney, D.L. Are primates the social geniuses? *International Ethological Conference (Symposium: Social and cognitive convergence in vertebrates)*. 15 – 23 August 2007, Halifax, NS, Canada, **2007**
- Wittig, R.M.** Function and effect of bystander initiated post-conflict affiliation in Tai chimpanzees. *The mind of the chimpanzees*. 22 – 25 March 2007, Chicago IL, USA, **2007**
- Wittig, R.M.** Reconciliation and cooperation: comparison between species of the genera Pan, Gorilla and Homo. *African great apes: Evolution, diversity and conservation*. 3 – 5 March 2004, Kyoto, Japan, **2004**
- Wittig, R.** Die anderen Vettern aus dem Wald – 25 Jahre Tai Schimpansen Projekt, Côte d'Ivoire, Westafrika. *III Internationale Tagung zur Regenwald-Thematik*. 11 – 12 May 2002, Leipzig, Germany, **2002**
- Wittig, R.** Conflict management in wild chimpanzees. *Behavioural diversity in chimpanzees and bonobos*. 12 – 17 June 2000, Kloster Seeon, Germany, **2000**
- Wittig, R.** Die Schimpansen (*Pan troglodytes verus*) des Tai Nationalparks, Côte d'Ivoire: Einzigartigkeit und Schutz. *Zookunft 2000: Artenschutz im neuen Millennium*. 18 – 19 Februar 2000, Münster, Germany, **2000**

INVITED WORKSHOP PARTICIPATION

- Wittig, R.M.** Tai Chimpanzee Project. *Workshop of the Primate Life History Group* Duke University, Durham, NC, USA, 19 – 20 December **2018**
- Crockford, C. & **Wittig, R.M.** *Understanding the neuroregulatory actions of oxytocin and its potential clinical application*. Erice, Italy, 22 – 27 May **2018**
- Wittig, R.M.** Tai chimpanzee Project. *Workshop of the Primate Life History Group* University of Southern Denmark, Odense, Denmark, 16 – 18 December **2017**
- Wittig, R.M.** Schimpansen Aggression und Krieg – Einblicke in das Konfliktverhalten unserer nächsten Verwandten. *Römisch Germanische Kommission des Deutschen Archäologischen Instituts: Technische Innovation und Kriegsführung in vor- und frühgeschichtlicher Zeit*. Frankfurt (Main), GER, 12 – 13 June **2014**.
- Wittig, R.M.** Social bonds in primates and non-primates. *Lorentz Center Workshop: Obstacles and Catalysts of Peaceful Behavior*. Leiden, NL, 18 – 22 March **2013**.
- Wittig, R.M.** Reconciliation and consolation in wild chimpanzees. *Workshop: Behavioural Diversity in Chimpanzees and Bonobos*. Seon (Bavaria), GER, 11 – 17 June **2000**.

INTERNATIONAL CONFERENCE PAPERS

- Wittig, R.M.**, Deschner, T. & Crockford, C. Social bonding as a stress buffer: linking cortisol, oxytocin and social bonds in wild chimpanzees. *IX. Göttinger Freilandtage*. 3 – 6 December 2013, Göttingen, Germany, **2013**
- Crockford, C., **Wittig, R.M.**, Ziegler, T.E., Zuberbühler, K. & Deschner, T. A physiological mechanism enables social bonding between non-kin, promoting flexible bonding options. *VIII. Göttinger Freilandtage*. 6 – 9 December 2011, Göttingen, Germany, **2011**
- Crockford, C. & **Wittig, R.M.** A physiological mechanism to promote social bonding between non-kin: evidence from wild chimpanzees. *4th Congress of the European Federation for Primatology*. 14 – 17 September 2011, Almada, Portugal, **2011**
- Wittig, R.M.** & Crockford, C. Understanding others' relationships – social intelligence in monkeys and apes. *VI Göttinger Freilandtage*. 11 – 14 December 2007, Göttingen, Germany, **2007**
- Wittig, R.M.**, Crockford, C., Whitten, P.L., Seyfarth, R.M. & Cheney, D.L. Social stressors and coping mechanisms in female baboons' everyday life. *International Ethological Conference*. 15 – 23 August 2007, Halifax, NS, Canada, **2007**
- Wittig, R.M.** The choice of post-conflict interactions. *IV Göttinger Freilandtage*. 9 – 12 December 2003, Göttingen, Germany, **2003**
- Wittig, R.M.** & Boesch, C. Linear dominance hierarchy due to contest competition among female chimpanzees. *VIII International Conference of the Gesellschaft für Primatologie*. 1 – 4 October 2003, Leipzig, Germany, **2003**
- Wittig, R.M.** & Boesch, C. Post-Conflict Management in wild Chimpanzees of the Tai National Park. *1st European Conference on Behavioural Biology*. 31 July – 4 August 2002, Münster, Germany, **2002**
- Wittig, R.** Ecological and social influences on conflict resolution in wild chimpanzees. *XVIII Congress of the International Primatological Society*. 7 – 12 January 2001, Adelaide, Australia, **2001**

INVITED TALKS

- Field experiments in wild chimpanzees: examining mechanisms of social cognition and communication that support cooperation. **ENES Seminar**, CNRS ENES, St Etienne, France, March 2021, invited by Florence Levrero.
- Evolution of Cooperation, Cognition and Communication: Insights from Chimpanzees. **ISLE Colloquium**, University of Zürich, Switzerland, 9 March 2021, invited by Marta Manser and Sabine Stoll.
- Social bonds and cooperation in nonhuman primates. *Hare Research Group Seminar*, **Evolutionary Anthropology, Duke University**, Durham, NC, USA, 18 December 2018, invited by Prof. Brian Hare.
- Tai Chimpanzee Project: 40 years of research. *Genetics Group Seminar*, **Konrad Lorenz Institut für Vergleichende Verhaltensforschung**, Vienna, A, 13 December 2018, invited by Dr. Steve Smith.
- Social bonds and cooperation in nonhuman primates. *Lebenswissenschaftliches Kolleg*, **Deutsche Studienstiftung**, Cologne, GER, 25 September 2018, invited by Prof. Katja Liebal.
- The effect of social bonds on the cost-benefit arithmetic of chimpanzees – new results. *Colloquium of the Research Training Group: Understanding social relationships*, **Georg August Universität**, Göttingen, GER, 18 January 2017, invited by Profs. J. Fischer and J. Ostner.

Konfliktmanagement bei freilebenden Schimpansen. *Wuppertaler Zoogespräche*, **Studium Generale des Philosophischen Seminars, Bergische Universität Wuppertal & Zoo Wuppertal**, Wuppertal, GER, 15 December 2015, invited by Prof. G. Hartung.

The effect of social bonds on the cost-benefit arithmetic of chimpanzees. *Wilhelminenberg Seminar*, **Konrad Lorenz Institut für Vergleichende Verhaltensforschung**, Vienna, A, 13 May 2015, invited by KLIIV.

The effect of social bonds on the cost-benefit arithmetic of chimpanzees. *Department Seminar*, **Department of Comparative Cognition, University of Neuchâtel**, Neuchâtel, CH, 9 January 2015, invited by Prof. K. Zuberbühler.

The physiology of cooperation in chimpanzees. *Ethos Seminar*, **Department of Animal and Human Ethology, University of Rennes**, Rennes, F, 12 July 2012, invited by Dr. A. Lemasson.

Social bonds among chimpanzees – physiological evidence. *Behavioural Ecology Research Group Seminar*, **School of Nature Sciences, University of Stirling**, Stirling, UK. 28 September 2011, invited by Prof. H. Buchanan-Smith.

Chimpanzees inform ignorant others. *Anthropology Seminar*, **Anthropologisches Institute and Museum, University of Zuerich**, Zuerich, Switzerland. 16 May 2011, invited by Prof. C. van Schaik.

Social bonds among chimpanzees: physiological evidence and impact. *Behaviour, Ecology, Environment and Evolution Seminar*, **Institute for Evolutionary Biology and Environmental Studies, University of Zuerich**, Zuerich, Switzerland. 17. May 2011, invited by Prof. M. Manser.

Chimpanzees' social environment: from building bonds to intentional informing. *School Seminar*, **School of Psychology, University of St Andrews**, St Andrews, UK. 4 March 2011, invited by Head of School, Prof. Malcolm MacLeod.

The impact of sociality on fitness. **Wissenschaftskolleg zu Berlin**, Berlin, Germany. 4 March 2010, invited by Prof. K. Zuberbuehler.

The impact of sociality on fitness. *Primatology Seminar*, **Max Planck Institute for Evolutionary Anthropology**, Leipzig, Germany. 2 Februar 2010, invited by Prof. C. Boesch.

Conflict management in chimpanzees and baboons: mechanisms and cognitive underpinnings. *Living Links Colloquium*, **Yerkes Primate Research Center & EMORY University**, Atlanta, GO, USA. 4 October 2006, invited by Prof. F.B.M. de Waal.

Conflict management in chimpanzees: 'decision-making' in conflicts and the choice of post-conflict interactions. *Anthropology Colloquium*, **Harvard University**, Cambridge, MA, USA. 8 September 2006, invited by Prof. R.W. Wrangham.

Die Vettern aus dem Wald. *Lecture Series: Brennpunkt Körper – Eigenes und Fremdes*. 19 – 28 April 2001, Leipzig, Germany, 2001, invited by BMF (German Minister for Science).

EDITOR / EDITORIAL BOARD

2019 Editor of "The chimpanzees of the Tai Forest: 40 years of Research", Cambridge University Press
since 2018 Member of the Editorial Board of the American Journal of Primatology

PUBLIC / PR TALKS

19 Jan 2022 Kultur der Schimpansen, Archaeologisches Museum Stadt Frankfurt, Germany
14 Jan 2021 Zoonosen und deren Folgen für Schimpansen und Menschen, Jane Goodall Institute Germany, ONLINE Seminar
20 Jun 2019 Wie Schimpansen die Welt sehen – Orientierung in einer komplexen Gesellschaft. KulturSymposium Weimar 2019 „Die Route wird neu berechnet“, Goethe Institut, Weimar, Germany.
21 Mar 2019 Die liebe Verwandtschaft: Beobachtungen zu engen Beziehungen bei Schimpansen. ANIMALICUM. Vorarlberg Museum, Bregenz, Austria.
12 Dec 2018 Führen Schimpansen Krieg? Aggression unter Schimpansen und deren Gründe – ein Diskurs. Museum für Naturkunde, Vienna, Austria.
20 Apr 2016 Führen Schimpansen Krieg? Aggression unter Schimpansen und deren Gründe – ein Diskurs. Landesmuseum für Vorgeschichte, Halle / S., Germany
10 Oct 2015 Ein guter Freund schützt vor Feinden. TurmDerSinne, Fürth, Germany.
17 Dec 2014 ‚Schimpansen – ein Spiegelbild des Menschen?‘ Landesmuseum, Braunschweig, Germany

- 29 Nov 2013 Science behind the movie 'CHIMPANZEE': Evokids conference of the Giordano Bruno Stiftung, Gießen, GER.
- 9 Sep 2013 Promoting chimpanzee research in the wild: Excursion of the Elitenetzwerk Bayern, Studienstiftung des deutschen Volkes, Leipzig, GER

ORGANISATION OF CONFERENCES

- 2019 Primate Brain Evolution – International workshop at the International School of Neuroscience, Ettore Majorana Foundation, 25 – 29 September 2019, Center for Scientific Culture, Erice, Italy.
- 2019 Symposium 40 Years Tai Chimpanzee Project, 29 – 31 May 2019, MPI EVA, Leipzig, Germany
- 2015 Meeting of the Gesellschaft für Primatologie – bi-annual meeting of the German Primate Society, 11 – 13 February 2015, Leipzig University & MPI EVA, Leipzig, Germany.
- 2009 Great Ape Health Workshop – International Conference on the Health Threat for Great Apes in Research and Tourist Sites, 21 – 24 Aug 2009, LAICO Lake Victoria Hotel, Entebbe, Uganda.

CONSULTING / PR

- 2020 – 2021 Scientific consultant on ape culture for exhibition "Human culture" at Archaeological Museum in Frankfurt / Main
- 2019 Scientific consultant for BBC Nature production: Seven Worlds – Continent Africa.
- 2019 Scientific Consultant 'SIND WIR ALLE UNTERKUSCHELT?' by MDR Wissen during the scientific exhibition week 'Silbersalz' by Volkswagenstiftung
- 2018 Scientific Consultant and speaker with regard to film 'JANE' during the scientific exhibition week 'Silbersalz' by Volkswagenstiftung
- 2018 Interviewee for radio production: Food sharing and bonding. German Radio SWR2 Wissen
- 2018 Scientific consultant for Japanese TV production of Tokyo Broadcasting Station: The Tai National Park, Series on World Heritage Sites
- 2016 – 2017 Consultant on chimpanzee tools for the exhibition ,+ultra gestaltung schafft wissen'. 30 Sep 2016 – 8 Jan 2017 Martin-Gropius-Bau, Berlin.
- 2015 – 2016 Wie Tiere fühlen (arte TV production): scientific advisor.
- 2015 Wissenschaftskino Leipzig: Schimpansen – der Film, Leipzig.
- 2014 – 2016 Specialist Consultant on ape conflicts for the exhibition 'Krieg – eine archäologische Spurensuche' (War). 6 Nov 2015 – 22 May 2016 Museum for pre-history, Halle / S. (Germany)
- 2013 Adnan unter wilden Tieren (arte TV production): scientific advisor.
- 2005 Planet Earth (BBC Nature TV production): scientific advisor for baboons.
- 2002 – 2003 Consultant on ape behaviour and evolution for the exhibition 'Mensch und Tier: eine paradoxe Beziehung' (Man and animal: a paradox relationship). 22 Nov 2002 – 10 Aug 2003 Deutsches Hygienemuseum, Dresden, Germany.
- 2000-2003 Education coordinator for Wild Chimpanzee Foundation, Feldmeilen, Switzerland.
- 2000-2001 Consultant on ape behaviour and evolution for the educational exhibition of the new ape house at Leipzig Zoo, Germany.
- 2000-2001 Consultant on chimpanzee conservation for the exhibition 'Gorillas in the soup'. Ongoing exhibition about the bushmeat crisis - campaign of the European Association of Zoos and Aquaria.

SUPERVISION EXPERIENCE (*alumni in italic*)

POST DOC

- 2013 – 2015 *Dr. Martin Surbeck (bonobo – chimpanzee comparison)*
(Assistant Professor, Harvard University, Human Biology, Boston (MA), USA)
- 2014 – 2023 *Dr. Cedric Girard-Buttoz (bonobo – chimpanzee comparison, EBC project)*
- 2016 – 2018 *Dr. Pawel Fedurek (ape attachment)*
(Lecturer, University of Stirling, Psychology, Scotland, UK)
- 2016 – 2019 *Dr. Ruth Sonnweber (ape attachment)*
(Maternity break)
- 2016 – 2021 *Patrick Tkaczynski PhD (ape attachment)*
(Lecturer, John Moores University Liverpool, Primatology, UK)

- 2018 – 2019 *Alexander Mielke (Mangabey cognition)*
(Research fellow, University of Oxford, School of Anthropology, UK)
- 2018 – 2019 *Liran Samuni (Chimpanzee cooperation)*
(Post-doc, Harvard University, Human Biology, Boston (MA), USA)
- 2019 – 2021 *Aisha Bründl (Ape faculty unit – Hominoid Brain Connectomics)*
(maternity break)
- 2019 – 2020 *Kathrin Kopp (Ape faculty unit – Hominoid Brain Connectomics)*
(Researcher at MPI EVA, Department for Psychology)
- 2020 – 2021 *Sylvain Lemoine (Between group competition in chimpanzees)*
(Lecturer, Cambridge University, Biological Anthropology, UK)

PHD SUPERVISOR (together with Catherine Crockford)

- 2012 – 2018 *Alexander Mielke, University of Leipzig, Germany (Summa cum laude)*
- 2013 – 2018 *Liran Samuni, University of Leipzig, Germany (Summa cum laude)*
- 2012 – 2018 *Anna Preis, University of Leipzig, Germany (Magna cum laude)*
- 2013 – 2020 *Sylvain Lemoine, University of Leipzig, Germany (Magna cum laude)*
- 2014 – 2021 *Clement Gba, University Felix-Huphoët-Boigny, Abidjan, Ivory Coast*
- 2017 – 2022 *Prince Valé, University Felix-Houphouët-Boigny, Abidjan, Ivory Coast*
- 2018 – *Virgile Manin, University of Leipzig, Germany*
- 2019 – *Tatiana Bortolato, University of Leipzig, Germany*
- 2019 – *Mathieu Malherbe, University of Lyon, France*
- 2020 – *Mathilde Grampp, University of Lyon, France*
- 2021 – *Eleonore Rolland, University of Lyon, France*

PHD CO-SUPERVISOR

- 2011 – 2015 *Helen deNys, University of Gent, Belgium (with Fabian Leendertz)*
- 2012 – 2016 *Jan Gogarten, McGill University, Montreal, Canada (with Colin Chapman)*
- 2012 – 2017 *Giulia Siriani, University of Leipzig, Germany (with Christophe Boesch)*
- 2013 – 2018 *Theresa Löhrich, Freie Universität, Berlin, Germany (with Fabian Leendertz)*
- 2014 – 2019 *Doris Wu, University of Leipzig, Germany (with Tobias Deschner)*
- 2015 – 2021 *Alexander Lang, Freie Universität, Berlin, Germany (with Fabian Leendertz)*
- 2016 – *Kamilla Pleh, Freie Universität Berlin, Germany (with Fabian Leendertz)*
- 2019 – *Jenny Jaffe, Freie Universität Berlin, Germany (with Fabian Leendertz)*
- 2020 – *Jorge Gomez Fortun, University of Greifswald, Germany (with Fabian Leendertz)*
- 2021 – *Oscar Node-Langlois, University of Lyon, France (with Angela Sirigu, Pier Francesco Ferrari)*
- 2021 – *Carme Riutord Fe, University of Greifswald, Germany (with Fabian Leendertz)*
- 2021 – *Auriane LeFloch, Neuchatel University, CH (with Klaus Zuberbühler)*
- 2022 – *Tina Peterson, St Andrews University, UK (with Josep Call)*

EXTERNAL ADVISOR

- 2012 – 2016 *Marlen Fröhlich, University of Konstanz, Germany*
- 2013 – 2018 *Erin Wessling, University of Leipzig, Germany*
- 2013 – 2016 *Robert Power, MPI EVA – Human Evolution*
- 2014 – 2019 *Yaelle Bouquet, University of Neuchatel, Neuchatel, CH*
- 2017 – 2020 *David Petiffer, University of Birmingham, UK*
- 2019 – *Kouadio Kan Sylvestre Koffi, University of Adjame, CIV*
- 2020 – *Aleksey Maro, UC Berkley, USA*
- 2021 – *Fanny Tibesar, University of Osnabrück, GER*

COLLABORATIONS (last 3 years)

- Christophe Boesch Co-PI on chimp culture projects – MPI EVA
- Catherine Crockford Co-PI on all projects –Institute for Cognitive Sciences, CNRS UMR 5229, Bron, F
- Tobias Deschner Co-PI on hormone projects – MPI EVA

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|------------------------|---|
| Gottfried Hohman | Co-PI on Pan-species comparison – MPI EVA |
| Hjalmar Kühl | Co-PI on conservation projects – MPI EVA & iDiv, Leipzig, GER |
| Fabian Leendertz | Co-PI on health projects – Robert Koch Institute, Berlin & Helmholtz Institute One Health, Greifswald, GER |
| Martin Surbeck | Co-PI on Pan-species comparison – Harvard University, USA |
| Linda Vigilant | Co-PI on genetic projects – MPI EVA |
| Susan Alberts | Department of Biology, Duke University (NC), USA |
| Katrin Amunts | Human Brain Project, Jülich Forschungszentrum, GER |
| Alfred Anwander | MPI Cognition and Brain Sciences, Leipzig, GER |
| Zoro Gone Bi Bertain | Biosciences, University Felix Houphouet-Boigny, Abidjan, RCI |
| Josep Call | School for Neuroscience and Psychology, St. Andrews University, UK |
| Darren Croft | Psychology, University of Exeter, UK |
| Carsten DeDreu | Behavioural Economics, University of Amsterdam, NL |
| Sam Ellis | Biology, University of Exeter, UK |
| Pier Francesco Ferrari | Institute for Cognitive Sciences, Lyon, France |
| Simon Fisher | MPI for Psycholinguistics, Nijmegen, NL |
| Angela Frederici | MPI Cognition and Brain Sciences, Leipzig, GER |
| Takeshi Furuichi | Kyoto Primate Center, Kyoto University, Japan |
| Antoine N'Guessan | Department of Environment, Université Jean Lorougnon Guédé, Daloa, RCI |
| Phillip Gunz | Human Evolution, MPI EVA, GER |
| Catherine Hobaiter | School for Neuroscience and Psychology, St. Andrews University, UK |
| Peter Kappeler | German Primate Center, University of Göttingen, GER |
| Stephanie King | Biology, University of Bristol, UK |
| Jean-Claude Bene Koffi | Department of Environment, Université Jean Lorougnon Guédé, Daloa, RCI |
| Inza Kone | Centre Suisse de Recherches Scientifiques en Côte d'Ivoire, Abidjan, RCI & Biosciences, University Felix Houphouet-Boigny, Abidjan, RCI |
| Michael Krutzen | Anthropology, University of Zürich, CH |
| Kevin Langergraber | Anthropology, Arizona State University, USA |
| Lydia Luncz | Anthropology, Oxford University, UK |
| Steven Moran | Linguistics, Neuchatel University, CH |
| Victoria Oelze | Anthropology, UC Santa Cruz, USA |
| Julia Ostner | Behavioural Ecology, University of Göttingen, GER |
| Alexander Piel | Anthropology, University College London, UK |
| Simone Pika | Biology, University of Osnabrück, GER |
| Andy Radford | Biology, University of Bristol, UK |
| Liran Samuni | Human Evolutionary Biology, Harvard University (MA), USA |
| Oliver Schülke | Behavioural Ecology, University of Göttingen, GER |
| Angela Sirigu | Institute for Cognitive Sciences, Lyon, France |
| Steve Smith | Konrad Lorenz Institute, Veterinary University Vienna, Austria |
| Erica van de Waal | Biology, Lausanne University, CH |
| Nikolaus Weiskopf | MPI Cognition and Brain Sciences, Leipzig, GER |
| Serge Wich | Biology, John Moores University, Liverpool, UK |
| Klaus Zuberbühler | Institute of Biology, University of Neuchatel, CH |

TEACHING EXPERIENCE

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|-------------|--|
| 2022 | Mastercourse in Neuroscience, University Claude Bernard Lyon 1, Module: Social cognition. |
| 2020 | International Master course: Becoming Human – MSc Integrative Biology, University of Leipzig. Elective Module: Cognitive Ethology of Great Apes. SS 2021 |
| 2014 - 2020 | Lectures as part of the MSc course in Biology, University of Leipzig. Part of the course on Behavioural Ecology by Anja Widdig. |
| 2012 - 2019 | Organiser and Lecturer of the IMPRS 'Human Origins' core seminar for Primatology: Comparative and molecular primatology. Units: Primate social intelligence & Experimental approaches of |

- studying behaviour in the wild. The Leipzig School of Human Origins, MPI EVA and University of Leipzig, GER.
- 2011 Core seminar week: Comparative and molecular primatology. Unit: Experimental approaches of studying behaviour in the wild. The Leipzig School of Human Origins, MPI EVA and University of Leipzig, GER.
- 2011 Module PS3036: Evolutionary and Comparative Psychology. Unit: Evolution of Social Behaviour. School of Psychology, University of St Andrews, UK.
- 2008 & 2009 Honorary lecturer for Behavioural Ecology, Animal Cognition and Evolution at Nyabyeya Forestry College, Uganda.
- 2006 & 2007 Substitute lecturer (for Profs. Dorothy Cheney and Robert Seyfarth) in graduate and undergraduate courses on animal behaviour and animal cognition.
- 1994 & 1995 Teaching assistant in a course on Vertebrate morphology, anatomy and evolution (Dr. Alois Edlmann, University of Bielefeld)
- 1993 Teaching assistant in a course on anatomy of invertebrates and vertebrates (Prof. Wolfgang Wägele, University of Bielefeld)
- 1992 & 1993 Teaching assistant in a course on animal behaviour (Profs. Fritz Trillmich, Hubert Hendrichs and Hajo Bischof, University of Bielefeld)
- 1991 & 1992 Teaching assistant in mathematics for biologists (Dr. Andreas Reißland, University of Bielefeld)

AD-HOC REVIEWING

American Journal of Primatology

Animal Behaviour

Behavioral Ecology and Sociobiology

Behaviour

Biology Letter

Current Biology

Frontiers

Hormones & Behavior

Human Evolution

International Journal of Primatology

Nature Communications

Naturwissenschaften

Primates

Proceedings of the National Academy of Sciences USA

Proceedings of the Royal Society London B

Science

Scientific Report

Leakey Foundation (USA)

Wenner Gren Foundation (USA)

National Science Foundation (USA)

Volkswagenstiftung (GER)

Humboldt Foundation (GER)

Swiss National Foundation (CH)

NWO Dutch Research Council (NL)