

## Overview

### Wednesday 1 June 2022

**12.30-15.30** Registration

**15.30-16.00** Opening

**16.00-17.00** **Plenary 1: Daniel Haun (p.2)**

**17.00-17.45** General Assembly GfP

**17.45-18.15** Drinks

### Thursday 2 June 2002

**09.00-10.00** **Plenary 2: Sarah Wolfensohn (p. 3)**

	<i>Room – A Auditorium</i>	<i>Room – B Kilimanjaro Lodge</i>	<i>Room – C Mount Kenia Lodge</i>	<i>Room – D Canopy Lodge</i>
<b>10.30-12.30</b>	Symp: Emotional expression (p. 3)	Behaviour of wild primates (p. 4)	Symp: Social behaviour / Social behaviour (p. 4)	Symp: Great ape welfare (p. 5)
<b>14.00-15.30</b>	Symp: Emotional expression / Communication (p.6)	Symp: Economic behaviour (p. 7)	Physiology / Neurobiology (p. 7)	Symp: Great ape welfare / Welfare (p. 8)
<b>16.00-17.30</b>	Social behaviour (p. 9)	Cognition (p. 9)	Genetics / Phylogeny (p. 10)	Symp: Phase out NHP (p. 10)
<b>17.30-18.30</b>	<b>Plenary 3: Tomas Marques-Bonet (p. 11)</b>			
<b>18.30-19.30</b>	Film Night: Family of Chimps – Bert Haanstra			

### Friday 3 June 2022

**09.00-10.00** **Plenary 4: Elise Huchard (p. 12)**

	<i>Room – A Auditorium</i>	<i>Room – B Kilimanjaro Lodge</i>	<i>Room – C Mount Kenia Lodge</i>	<i>Room – D Canopy Lodge</i>
<b>10.30-12.30</b>	Symp: Communication / Communication (p. 12)	Cognition (p. 13)	Symp: Exchanging methods human & primates / Social behaviour (p. 13)	Symp: Mind of the forager (p. 14)
<b>14.00-15.30</b>	Communication (p. 15)	Cognition (p. 16)	Social behaviour (p. 16)	Symp: Mind of the forager / Behaviour of wild primates (p. 17)
<b>16.00-17.30</b>	Communication (p. 18)	Cognition (p. 18)	Social behaviour (p. 19)	Behaviour of wild primates (p. 19)
<b>17.30-18.30</b>	General Assembly EFP			
<b>18.30-19.30</b>	<b>Plenary 5: Kathelijne Koops (p. 20)</b>			
<b>19.30-00.00</b>	Diner + Party			

**Posters (Foyer)** sessions are during coffee, tea & lunch breaks, and the poster titles and presenters can be found at the end of this document. See page 21 ff.

**Wednesday 1 June 2022**

12:30 – 15:30h: Registration

15:30 – 16:00h: Opening with welcoming words of Jan van Hooff and Frans de Waal

**16:00 – 17:00h: Plenary 1**

**Daniel Haun - Group differences in chimpanzee social behavior**

*Chair: Edwin van Leeuwen*

**17:00 – 17:45h: General Assembly GfP**

17:45 - 18:15: Drinks

Thursday 2 June 2022

09:00 – 10:00 | Plenary 2

**Sarah Wolfensohn – Assessment of primate welfare: why, where, who, when and how?**

*Chair: Karline Janmaat*

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10:00 – 10:30 | Coffee, tea + **posters**

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10:30 – 12:30 | Session **A1 – Symposium**: Great apes' production and perception of emotional expressions

***Symposium 1: Great apes' production and perception of emotional expressions. Part 1***

*Organizers: Yena Kim (Leiden University), Raphaela Heesen (Durham University), Mariska Kret (Leiden University) & Zanna Clay (Durham University)*

*Chair: Raphaela Heesen*

10:30 – 10:45 | Yena Kim, Jolinde M.R. Vlaeyen, Raphaela Heesen, Mariska E. Kret, Zanna Clay  
**The association between the bared-teeth display and social dominance structures: a comparison between bonobos and chimpanzees**

10:45 – 11:00 | Ivan Norscia, Giada Cordoni  
**Something has changed between us: emotional communication varies from play- to real-fighting in chimpanzees**

11:00 – 11:15 | Jake Brooker, Christine Webb, Frans de Waal, Zanna Clay  
**Empathic tendencies in Pan - a comparative investigation into the consolation tendencies of sanctuary-living chimpanzees and bonobos**

11:15 – 11:30 | Diane A. Austry, Jake S. Brooker, Zanna Clay  
**Chimpanzees' responses to emotional expressions and its relation to behavioural markers of empathy: A behavioural and thermal investigation**

11:30 – 11:45 | Katja Liebal, Manuela Ersson-Lembeck, Manfred Holodynski  
**The challenge of studying emotion expression in nonhuman primates: a developmental study on mother-infant interactions in humans (*Homo sapiens*) and captive chimpanzees (*Pan troglodytes*)**

11:45 – 12:00 | Evy van Berlo, Yena Kim, Mariska E. Kret  
**Attentional selectivity for emotions: humans and bonobos compared**

12:00 – 12:15 | Raphaela Heesen, Yena Kim, Mariska Kret, Zanna Clay  
**The body speaks for itself: Chimpanzees' perception of emotion from body movements**

12:15 – 12:30 | Tonko Zijlstra, Yena Kim, Mariska Kret  
**Mimicry of playface and laughter in orangutans and humans**

**Thursday 2 June 2022**

10:30 – 12:30 | Session **B1** -Behaviour of wild primates

*Chair: Vedrana Šlipogor*

10:30 – 10:45 | Williams Celeste, Reinhardt Kathleen, Balestri Michela, Campera Marco, Eppley M. Timothy, Donati Giuseppe - **Drivers of sleep patterns in wild cathemeral and nocturnal lemurs**

10:45 – 11:00 | Julia Mörchen, Frances Luhn, Olivia Wassmer, Maria van Noordwijk, Carel van Schaik, Puji Rianti, Anja Widdig, Caroline Schuppli - **Dispersing orangutan males use social learning to learn about new habitat**

11:00 – 11:15 | Judith Schneider, Loïc Brun, Eduard Mas Carrió, Pooja Dongre, Pierre Taberlet, Erica van de Waal, Luca Fumagalli - **Molecular assessment of wild vervet monkeys' diet compared to observational data**

11:15 – 11:30 | Achille Diodio Sorue, John Vogel, Didier Kimpungi Diana, Jeannette Madamu Massini, Djuma Ngoy Edouard, Ruth Gahani Minahilo, Rodolphe Lutengya Esube, Dieudonné Kwadje Lugala, Markéta Antonínová, Amube Jérôme, Laudisoit Anne - **A decade of silent chimpanzee monitoring in the Garamba Complex, Democratic Republic of the Congo**

11:30 – 11:45 | Camille Lacroux, Emmanuelle Pouydebat, Marie Rossignol, Harish Karthikeyan Ravi, Farid Chemat, Edward Asalu, Alfred Aleeje, Sophie Durand, Fabrice Chandre, Sabrina Krief - **Repellent activity of nesting trees in the Sebitoli chimpanzee community of Kibale National Park, Uganda**

11:45 – 12:00 | Philippa Hammond, Dora Biro, Kaitlyn Gaynor, Tara Easter, Meredith Palmer, Susana Carvalho - **A multi-level approach to the Landscape of Fear**

12:00 – 12:15 | Alessandra Mascaró, Lara Southern, Simone Pika, Tobias Deschner  
**Wild chimpanzees (*Pan troglodytes troglodytes*) apply insects onto open wounds of self and others**

12:15 – 12:30 | Nele Käter, Sri Suci Utami Atmoko, Caroline Schuppli  
**Variability of tool use in Sumatran orangutans and contributing ecological factors**

10:30 – 12:30 | Session **C1 – Symposium: The hows and whys of social relationships: applying Tinbergen's four questions to the study of primate social behavior / Social Behaviour**

***Symposium 2: The hows and whys of social relationships: applying Tinbergen's four questions to the study of primate social behavior.***

*Organizers: Delphine De Moor (University of Exeter), Erin Siracusa (University of Exeter) & Camille Testard (University of Pennsylvania)*

*Chairs: Delphine De Moor, Erin Siracusa & Camille Testard*

10:30 – 10:45 | Erica van de Waal, Andrew Whiten  
**Field experiments illuminate three phases of social learning in a wild primate**

**Thursday 2 June 2022**

10:45 – 11:00 | Oliver Schülke, Julia Ostner

**Selection in relation to sex and affiliative relationships within and between the sexes**

11:00 – 11:15 | Leveda Cheng, Liran Samuni, Stefano Lucchesi, Tobias Deschner, Martin Surbeck

**Physiological correlates of intergroup aggression in male bonobos**

11:15 – 11:30 | Debottam Bhattacharjee, Jorg J.M. Massen

**Partner choice during cooperation in macaque societies**

11:30 – 11:45 | Erin R. Siracusa, James P. Higham, Noah Snyder-Mackler, Lauren J.N. Brent

**Age-based changes in the social behaviour of rhesus macaques: evidence for social selectivity**

11:45 – 12:00 | Camille Testard, Lauren J. N. Brent, Jerome Sallet, Michael L. Platt

**Neural correlates of sociality in rhesus macaques**

12:00 – 12:15 | Delphine De Moor, Julia Ostner, Oliver Schülke, Lauren Brent

**Unravelling the evolution of social relationships: a comparative approach across macaque species**

12:15 – 12:30 | James Stranks, Michael Heistermann, Oliver Schülke, Julia Ostner

**The dynamics of social bonding and the buffering of the stress response in male Assamese macaques**

10:30 – 12:30 | Session **D1 - Symposium: Are we smart enough to know what great apes need – studies in great ape welfare**

***Symposium 3: Are we smart enough to know what great apes need – studies in great ape welfare.***

***Part 1***

*Organizers: Jeroen Stevens (Odisee Hogeschool), Daan Lameris (University of Antwerp) & Johanna Neufuss (University of Birmingham)*

*Chairs: Jeroen Stevens, Daan Lameris & Johanna Neufuss*

10:30 – 10:45 | Jeroen M.G. Stevens, Sarah Depauw, Hilde Vervaecke

**The happiness of chimpanzees: great apes and modern welfare science**

10:45 – 11:00 | Johanna Neufuss, Kirsten Pullen, Susannah K.S. Thorpe

**Status of resource provision and husbandry management for zoo-housed great apes**

11:00 – 11:15 | Daan W. Laméris, Marcel Eens, Jeroen M.G. Stevens

**Measuring the effect of managed fission-fusion activities on bonobo affective states**

11:15 – 11:30 | Ruth Sonnweber, Jeroen M.G. Stevens, Verena Behringer

**Salivary cortisol reaction norms in zoo-housed great apes: a tool to make inferences about the welfare state**

**Thursday 2 June 2022**

11:30 – 11:45 | Lisette M. van den Berg, Eva S.J. van Dijk, Jorrit Verkleij, Kim van Dijk, Thomas R. Bionda, Elisabeth H.M. Sterck- **Using positive and negative behavioural welfare indicators to monitor the welfare of intact and castrated male Western lowland gorillas (*Gorilla gorilla gorilla*) in Dutch zoos**

11:45 – 12:00 | Rachel Jarvis, Sophie Moittié, Mátyás Liptovszky, Kerstin Baiker  
**Vitamin D status in European zoo-housed chimpanzees (*Pan troglodytes*)**

12:00 – 12:15 | Jonas Torfs, Nicky Staes, Marcel Eens  
**A gut feeling: the potential impact of the gut microbiome on primate welfare**

12:15 – 12:30 | Sarah Depauw, Hilde Vervaecke, Jeroen M.G. Stevens  
**Welfare assessment design for great apes and nutrition: a challenge**

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12:30 – 14:00 | Lunch + **posters**

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14:00 – 15:30 | Session **A2 – Symposium: Great apes' production and perception of emotional expressions / Communication**

**Symposium 1: Great apes' production and perception of emotional expressions. Part 2**

Organizers: Yena Kim (Leiden University), Raphaela Heesen (Durham University), Mariska Kret (Leiden University) & Zanna Clay (Durham University)

Chair: Yena Kim

14:00 – 14:15 | Elisa Demuru, Marta Caselli, Sara De Vittoris, Jean-Pascal Guéry, Lisa Gillespie, Ivan Norsci - **A meta-analysis to (try to) figure out yawn contagion in bonobos**

14:15 – 14:30 | Thibaud Gruber  
**Identifying affective social learning in great ape cultural learning**

14:30 – 14:45 | Miriam Simon, Anja Widdig, Brigitte M. Weiß  
**Sniffing behaviour of Barbary macaques at Affenberg Salem**

14:45 – 15:00 | Adrien Meguerditchian, Yannick Becker, Kep-Kee Loh, Siham Bouziane, Eloïse Disarbois - **Development of gestural communication' Lateralization in primates *Papio anubis*: early post-natal "Language-homolog" brain structures in newborn can predict it**

15:00 – 15:15 | Maël Leroux, Katie E. Slocombe, Bosco Chandia, Anne M. Schel, Klaus Zuberbühler, Simon W. Townsend - **Call combinations in chimpanzees (*Pan troglodytes schweinfurthii*)?**

15:15 – 15:30 | Emma Doherty, Zanna Clay, Marina Davila-Ross  
**Communication development in sanctuary-living chimpanzees (*Pan troglodytes*): a multimodal perspective**

**Thursday 2 June 2022**

14:00 – 15:30 | Session **B2 – Symposium:** Perspectives on non-human primates' economic behaviour(s)

**Symposium 4: Perspectives on non-human primates' economic behaviour(s).**

*Organizers: Elsa Adressi (CNR, Rome), Francesca De Petrillo (Newcastle University) & Valerie Dufour (University of Tours)*

*Chairs: Elsa Adressi, Francesca De Petrillo & Valerie Dufour*

14:00 – 14:15 | Yue Hu, Tobias Kalenscher  
**Purchasing power computations in rats and humans**

14:15 – 14:30 | Alessandro Bongioanni, D Folloni, L Verhagen, J Sallet, N, Khalighinejad, MC Klein-Flügge, MFS Rushworth – **Accurate versus fast decision-making under risk in macaques: brain and behaviour**

14:30 – 14:45 | Stefanie Keupp, Sebastian Grueneisen, Felix Warneken, Elliot A. Ludvig, Alicia Melis  
**Delay discounting and risk preference in chimpanzees (*Pan troglodytes*)**

14:45 – 15:00 | Alejandro Sánchez-Amaro, Daniel Haun, Federico Rossano  
**The bargaining strategies of chimpanzees and bonobos in the Ultimatum Game**

15:00 – 15:15 | Gabriele Schino, Francesco De Angelis, Raffaella Ventura  
**On decision making during grooming interactions in Japanese macaques (*Macaca fuscata*)**

15:15 – 15:30 | Dufour Valerie, Broihanne Marie-Helene  
**Decision making under risk and ambiguity in human and non-human primates**

14:00 – 15:30 | Session **C2 – Physiology / Neurobiology**

*Chair: Martina Stocker*

14:00 – 14:15 | Marlen Kücklich, Brigitte M. Weiß, Susann Jänig, Madita Zetsche, Andrea Marcillo, Almuth Einspanier, Claudia Birkemeyer, Anja Widdig - **Towards understanding chemical cues of fertility in primates**

14:15 – 14:30 | Johanna Eckert, Danyi Wang, (shared first-authorship), Sam Teague, Ali Al-Naji, Daniel Haun, Javaan Chahl - **Contact-free estimation of chimpanzees' heart rate: Validation and application of a new method for studying animal cognition**

14:30 – 14:45 | Baptiste Sadoughi, Dominik Schneider, Rolf Daniel, Oliver Schülke, Julia Ostner - **Aging manifests across the physical, social, and physiological domains in wild female Assamese macaques (*Macaca assamensis*)**

14:45 – 15:00 | Julia Ostner, Sonia Touitou, Michael Heistermann, Oliver Schülke  
**Physiological responses to energetic challenges in wild macaques**

**Thursday 2 June 2022**

15:00 – 15:15 | Andreas Berghänel, Verena Behringer, Sean M. Lee, Barbara Fruth, Gottfried Hohmann - **Transition to siblinghood causes substantial and long-lasting physiological stress reactions in wild bonobos**

15:15 – 15:30 | Paula Escriche Chova, Leana R. Goetze, Karen L. Bales - **Neurobiology of pair bonding in female titi monkeys (*Plecturobus cupreus*)**

14:00 – 15:30 | Session **D2 – Symposium: Are we smart enough to know what great apes need & Studies in primate welfare**

**Symposium 3: Are we smart enough to know what great apes need – studies in great ape welfare. Part 2**

*Organizers: Jeroen Stevens (Odisee Hogeschool), Daan Lameris (University of Antwerp) & Johanna Neufuss (University of Birmingham)*

*Chairs: Jeroen Stevens, Daan Lameris & Johanna Neufuss*

14:00 – 14:15 | Juan Olvido, A. Miani, A. Alstrup, J. Malmkvist, C. Pertoldi, T. H. Jensen, R.K. Nielsen, D. W. Hansen, L.A. Bach - **Voluntary engagement interventions: the reward of novel sensations**

14:15 – 14:30 | Ruta Vaicekauskaite, Christelle Gandon, Helen Beyer, Pascal Ancé, Pierre-Henri Moreau - **Innovative training protocol for common marmosets (*Callithrix jacchus*): group and individual positive reinforcement training to refine husbandry and research procedures**

14:30 – 14:45 | Abigail Gwynn, Hendrik Segah, Helen C. Morrogh-Bernard, Alex Thornton, Abdul Aziz, Frank J.F. Van-Veen - **Use of the Mini-FLOTAC apparatus for monitoring gastrointestinal parasites of wild orang-utans**

14:45 – 15:00 | Dian G.M. Zijlmans, Lisette M. van den Berg, Jan A.M. Langermans, Elisabeth H.M. Sterck - **Using behaviour to predict overweight in captive group-living rhesus macaques (*Macaca mulatta*)**

15:00 – 15:15 | Dietmar Crailsheim, Pablo R. Ayuso  
**Research activity's potential to support primate care in captivity**

15:15 – 15:30 | Sophie Waasdorp, J.A. Tuffnell, L. Bruins-van Sonsbeek, C.M. Schilp, Y.R.A. van Zeeland, E.H.M Sterck - **What is the best way to feed captive white-naped mangabeys (*Cercocebus lunulatus*)?**

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15:30 – 16:00 | Coffee, tea + **posters**

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**Thursday 2 June 2022**

16:00 – 17:30 | Session **A3** – Social behaviour

*Chair: Jordan Martin*

16:00 – 16:15 | Pia M. Böhm, Lena S. Pflüger, Katharina Pink, Michael A. Huffman, Bernard Wallner - **Consortship stability of female homosexual consortships in Japanese macaques (*Macaca fuscata*)**

16:15 – 16:30 | Francisco E. de Oliveira Terceiro, Erik P. Willems, Maria de Fátima Arruda, Judith M. Burkart, Arrilton Araújo - **Food sharing under fluctuating food availability: long-term data from wild common marmosets (*Callithrix jacchus*)**

16:30 – 16:45 | Jenny Jaffe, Fabian Leendertz, Sebastien Calvignac-Spencer, Roman Wittig  
**Severe injuries in wild chimpanzees - behavioural and medical aspects**

16:45 – 17:00 | Alan V. Rincon, Claire Pérez, Peter R. Clark, Julie Dubosq, Bridget M. Waller, Jérôme Micheletta – **Do more complex macaque societies use more complex facial behaviour?**

17:00 – 17:15 | Jordan S. Martin, C.A. Olivier, C. Pilisi, P. Agnani, C. Kauffmann, L. Hayes, A. V. Jaeggi  
**The evolution of inter- and intraspecific variation in primate social organization: A phylogenetic analysis of ancestral states and ecological effects on wild populations**

17:15 – 17:30 | Lucy Baehren, Susana Carvalho  
**Reinventing the framework for leave-taking: an example using wild chacma baboons (*Papio ursinus*)**

16:00 – 17:30 | Session **B3** - Cognition

*Chair: Isabelle Laumer*

16:00 – 16:15 | Cécile Sarabian, Andrew MacIntosh, Nobuyuki Kawai, Ikuma Adachi  
**Exploring the effects of disgust-related images and odors on cognition in chimpanzees**

16:15 – 16:30 | Jonas Verspeek, Edwin J.C. van Leeuwen, Daan W. Laméris, Nicky Staes, Jeroen M.G. Stevens - **Indifferent hippies: lack of prosociality in prosocial choice task and group service paradigm in bonobos**

16:30 – 16:45 | Laura Lewis, Fumihiko Kano, Jeroen Stevens, Erin Wessling, Josep Call, & Chris Krupenye - **Chimpanzees and bonobos remember groupmates for at least a decade**

16:45 – 17:00 | Mathieu S. Stribos, Ryan Sigmundson, Roy Hammer, Julia Herzele, Lena S. Pflüger, Jorg J.M. Massen - **Exploring the cognitive capacities of Japanese macaques in a cooperation game**

17:00 – 17:15 | Sarah Salphati, Marina Davila Ross, Derry Taylor  
**Rapid facial mimicry in infant chimpanzee play**

17:15 – 17:30 | **GfP MASTER RESEARCH PRICE:** Tina Petersen  
**Representational feedback-loops and behavioural interactions: How, when, and what behaviours „upgrade” the functionality dimension in tool representations?**

Thursday 2 June 2022

16:00 – 17:30 | Session **C3** – Genetics / Phylogeny

*Chair: Lisa-Claire Vanhooland*

16:00 – 16:15 | Laura LaBarge, B. Spillmann, A. Ashbury, A. Marzec, J. Kunz, E.R. Vogel, S.S. Utami Atmoko, C.P. van Schaik, M.A. van Noordwijk - **Local space-use and paternities in Bornean orangutans at Tuanan, Central Kalimantan, Indonesia**

16:15 – 16:30 | Nicky Staes, C.M. White, E.E. Guevara, M. Eens, W.D. Hopkins, S.J. Schapiro, J.M.G. Stevens, C.C. Sherwood, B.J. Bradley - **Epigenetic modification of dopamine receptor gene 2 (DRD2) is associated with extraversion scores in chimpanzees**

16:30 – 16:45 | Tobias van Elst Valisoa S.T. Rovanirina, Romule Rakotondravony, Paul A. Hohenlohe, Dominik Schüßler, Ute Radespiel - **Phylogeography of the critically endangered Gersp's mouse lemur has been shaped by rivers, altitude and paleoclimate**

16:45 – 17:00 | Laura Hagemann, N. Grow, Y.E.-M.B. Bohr, D. Perwitasari-Farajallah, Y. Duma, S.L. Gursky, S. Merker - **Small, odd and old - the most basal Sulawesi tarsier lives in the mountains**

17:00 – 17:15 | Severine L.D. Toussaint, Dionisios Youlatos, John A. Nyakatura  
**Vertical locomotion in small mammals helps refine ecological scenarios on primate origins**

17:15 – 17:30 | Samantha López Clinton, Rachel A. Voyt, Axel Jensen, Gideon Erkenwick Watsa, Mrinalini Erkenwick Watsa, Katerina Guschanski - **Developing saddleback and emperor tamarin SNP set for in situ genotyping using the MinION portable sequencer**

16:00 – 17:30 | Session **D3** – **Symposium: Is it time to phase out lab research on non-human primates?**

***Symposium 5: Is it time to phase out lab research on non-human primates?***

*Organizers: Simone Pollo (Sapienza University of Rome) & Augusto Vitale (Istituto Superiore di Sanità)*

*Chair: Augusto Vitale*

16:00 – 16:15 | Claudio I. Bernardi  
**Perspectives from the Pharma environment and Regulatory Agencies**

16:15 – 16:30 | Luca Bonini  
**The biggest dilemma: nonhuman primates in neuroscientific basic research**

16:30 – 16:45 | Jan A.M. Langermans  
**Replacement and reduction of non-human primate use in biomedical research: opportunities and challenges**

16:45 – 17:00 | Simone Pollo  
**Are NHPs a special case for the reform of scientific use of animals?**

**Thursday 2 June 2022**

17:00 – 17:15 | Valeska Stephan

**The role of non-human primates in research and development – an (historical) overview**

17:15 – 17:30 | Augusto Vitale

**Critical issues in the evaluation of Non-Human Primates lab research**

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**17:30 – 18:30 | Plenary 3**

**Tomas Marques-Bonet - A global catalog of whole-genome diversity from 233 primate species**

*Chair: Jan Langermans*

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18:30 – 19:30 | EFP-GfP movie night with “The family of chimps” (1984) by Bert Haanstra, with an introduction by Prof. dr. Jan van Hooff

**Friday 3 June 2022**

**09:00 – 10:00 | Plenary 4**

**Elise Huchard - The ecology of sexual coercion and of power asymmetries between the sexes in primates**

*Chair: Oliver Schülke*

10:00 – 10:30 | Coffee, tea + **posters**

10:30 – 12:30 | Session **A4 – Symposium: Meaning, context and function: Studies on flexibility versus specificity in primate communication / Communication**

***Symposium 6: Meaning, context and function: Studies on flexibility versus specificity in primate communication.***

*Organizers: Marlen Fröhlich (University of Zurich; University of Tübingen) & Kirsty E. Graham (University of St Andrews)*

*Chairs: Marlen Fröhlich & Kirsty Graham*

10:30 – 10:45 | Nancy Rebout, Arianna De Marco, Andrea Sanna, Jérôme Micheletta, Jean-Christophe Lone, Reinier F. van den Berg, Elisabeth H.M. Sterck, Jan A.M. Langermans, Bernard Thierry, Alban Lemasson - **Testing the association between social complexity and contextual call flexibility in four species of macaque**

10:45 – 11:00 | Catherine Crockford, Cedric Girard-Buttoz, Emiliano Zaccarella, Tatiana Bortolato, Angela Friederici, Roman Wittig - **The patterning and ontogeny of chimpanzee vocal sequences**

11:00 – 11:15 | Guillaume Dezecache  
**Vocal functional flexibility: what it is and why it matters for primatologists**

11:15 – 11:30 | Peter Clark, Bridget Waller, Jerome Micheletta  
**Matching crested macaque facial signals to social interaction outcomes**

11:30 – 11:45 | Juliette Aychet, Catherine Blois-Heulin, Alban Lemasson  
**Signal sequences in captive mangabeys: flexible communication in a non-hominoid primate?**

11:45 – 12:00 | Carel van Schaik, Marlen Fröhlich  
**The meanings of 'meaning' of primate signals**

12:00 – 12:15 | Kirsty E. Graham, Marlen Fröhlich  
**A discussion on meaning, context and function**

**Friday 3 June 2022**

12:15 – 12:30 | Alexandra Langehennig-Peristenidou, Daniel Romero-Mujalli, Tjard Bergmann, Marina Scheumann - **From simple to complex: vocal development of the trill call in grey mouse lemurs**

10:30 – 12:30 | Session **B4** - Cognition

*Chair: Jessie Adriaense*

10:30 – 10:45 | Edwin J.C. van Leeuwen, N. Staes, S. Kordon, J. Brooker, S. Nolte, Z. Clay, M. Eens, J.M.G. Stevens - **Timbres of tolerance: bonobos and chimpanzees do not systematically differ in their expressions of co-feeding tolerance**

10:45 – 11:00 | Shona Duguid, Esther Herrmann, Michael Tomasello  
**How do chimpanzees coordinate actions to solve a pure coordination problem?**

11:00 – 11:15 | Isabelle Laumer, Shubhangi Kansal, Anais van Cauwenberghe, Marlen Fröhlich, Tatang Mitra Setia, Caroline Schuppli - **The development of object manipulations in free-ranging and captive orangutans**

11:15 – 11:30 | Lara Southern, Simone Pika, Tobias Deschner  
**Lethal coalitionary attacks of chimpanzees (*Pan troglodytes troglodytes*) on gorillas (*Gorilla gorilla gorilla*) in the wild**

11:30 – 11:45 | Kathrin S. Kopp, Sonja J. Ebel, Roman M. Wittig, Daniel B.M. Haun, Catherine Crockford - **Mirror, mirror in my hand... A simple method to improve MSR tests in chimpanzees**

11:45 – 12:00 | André Gonçalves, Yuko Hattori, Ikuma Adachi  
**Strange yet familiar? Chimpanzees' interest towards conspecific skulls, an eye-tracking experiment**

12:00 – 12:15 | Marta Panunzi, Elsa Addressi, Gabriele Schino  
**Capuchin monkeys flexibly coordinate in a Snowdrift game**

12:15 – 12:30 | Jessie E.C. Adriaense, Judith M. Burkart  
**Joint action in common marmosets (*Callithrix jacchus*) and the role of joint commitment**

10:30 – 12:30 | Session **C4 – Symposium**: Exchanging methods in the ethological study of human and non-human primates / Social behaviour

**Symposium 7: Exchanging methods in the ethological study of human and non-human primates.**  
*Organizer: Virginia Pallante (Netherlands Institute for the Study of Crime and Law Enforcement)*

*Chair: Virginia Pallante*

**Friday 3 June 2022**

10:30 – 10:45 | Marie Rosenkrantz Lindegaard

**Does Danger Level Affect Human Bystander Intervention in Real-Life Conflicts? Evidence from CCTV Footage**

10:45 – 11:00 | Peter Ejbye-Ernst

**Does third-party intervention matter? A video-based analysis of the effect of third-party intervention on the continuation of interpersonal conflict behaviour**

11:00 – 11:15 | Hans Myhre Sunde, Marie Rosenkrantz Lindegaard, Don Weenink

**What goes on before the conflict goes off? A systematic video analysis of conflict in police-citizen encounters**

11:15 – 11:30 | Carlijn van Baak, Evelien Hoeben, Don Weenink, Marie Rosenkrantz Lindegaard

**What do they do? Video analysis of actions by men and women as bystanders in public conflicts captured on CCTV**

11:30 – 11:45 | Marjolijn Das

**Using administrative register data to study human behaviour**

11:45 – 12:00 | Richard Philpot, Lasse Suonperä Liebst, Marie Rosenkrantz Lindegaard, Peter Verbeek, Mark Levine - **Reconciliation in human adults: A video-assisted naturalistic observational study of post conflict conciliatory behaviour in interpersonal aggression**

12:00 - 12.15 | Virginia Pallante, Marie Rosenkrantz Lindegaard

**From primatology to the social sciences and back: exchanging methods for a shared research**

12:15 – 12:30 | Elizabeth T. Hallers-Haalboom, M.M. Vermande, E.J.C. van Leeuwen, E.H.M. Sterck  
**Food sharing in human children**

10:30 – 12:30 | Session **D4 – Symposium: Getting into the mind of the forager - Studying cognition in humans and other primates under natural foraging conditions**

**Symposium 8: Getting into the mind of the forager - Studying cognition in humans and other primates under natural foraging conditions. Part 1**

*Organizers: Karline Janmaat (University of Amsterdam) & Miguel de Guinea (The Hebrew University of Jerusalem)*

*Chairs: Karline Janmaat & Miguel de Guinea*

10:30 – 10:45 | Shelly Masi, Silvia Miglietta, Giulia Bardino, Terence Fuh, Paco Bertolani, Benjamin Robira - **Frugivory triggers goal-directed travel in wild western gorillas**

10:45 – 11:00 | Karline Janmaat, Miguel de Guinea, Julien Collet, Richard W. Byrne, Benjamin Robira, Emiel van Loon, Matthias Allritz, Haneul Jang, Andrea Presott1, Cody Ross, Gabriel Ramos-Fernandez, Shauhin Alavi, Dora Biro - **Comparing cognition among wild primates: linking primate movement decisions to information gradients in natural habitats**

**Friday 3 June 2022**

11:00 – 11:15 | Gregorio de Chevalier, Emiel van Loon, Karline R. L. Janmaat

**Travel speed as a flexible indicator of spatial knowledge and sensory detection distances in wild chimpanzees**

11:15 – 11:30 | Emma S. McEwen, Matthias Allritz, Josep Call, Ken Schweller, Miguel de Guinea, Karline R. L. Janmaat, Charles R. Menzel, Daniel Haun, Francine L. Dolins - **Chimpanzee navigation in a virtual environment**

11:30 – 11:45 | Bethany Watkins, Miguel de Guinea \*, Stephanie A. Poindexter, Jörg U. Ganzhorn, Giuseppe Donati, Timothy M. - **Routes matter: the effect of seasonality on bamboo lemur navigational strategies**

11:45 – 12:00 | Jorin Veen, Bryndan O.C.M. van Pinxteren, Vidrich Kandza, Haneul Jang, Patrick G. Meirmans, Karline R.L. Janmaat - **Examining the diet, foraging behaviour, and botanical knowledge of Mbendjele BaYaka children**

12:00 – 12:15 | Tamara Vallina, Martijn Egas, Haneul Jang, Lucy Bates, Heather Cohen, Jorin Veen, Karline R.L. Janmaat - **Examining the navigational toolbox of the Mbendjele BaYaka forager children**

12:15 – 12:30 | Kavel Ozturk, Martijn Egas, Karline R. L. Janmaat  
**For Mandrills, timing is everything**

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12:30 – 14:00 | Lunch + **posters**

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14:00 – 15:30 | **Session A5 - Communication**

*Chair: Paula Estriche Chova*

14:00 – 14:15 | Alexandra B. Bosshard, Maël Leroux, Nicholas A. Lester, Balthasar Bickel, Sabine Stoll, Simon W. Townsend - **Using linguistic methods to quantify call combinations in chimpanzees (*Pan troglodytes schweinfurthii*)**

14:15 – 14:30 | Tom S. Roth, Mariska E. Kret  
**An experimental investigation of attention to and preference for flanges in orangutans**

14:30 – 14:45 | Sandro Sehner, Carel van Schaik, Judith Maria Burkart  
**The evolutionary origin of information donation: a targeted comparison between marmosets and squirrel monkeys**

14:45 – 15:00 | Alice Bouchard, Klaus Zuberbühler  
**Male chimpanzees communicate to mediate competition and cooperation during feeding**

**Friday 3 June 2022**

15:00 – 15:15 | Julián León, Constance Thiriau, Klaus Zuberbühler  
**Development of alarm call comprehension in sooty mangabeys**

15:15 – 15:30 | Adrian Soldati, Pawel Fedurek, Guillaume Dezechache, Geresomu Muhumuza, Klaus Zuberbühler, Josep Call  
**The ontogeny of behavioural responses to pant hoots in chimpanzees**

14:00 – 15:30 | Session **B5** -Cognition

*Chair: Debottam Bhattacharjee*

14:00 – 14:15 | Mathieu Malherbe, Liran Samuni, Catherine Crockford, Roman Wittig  
**Developmental trajectories of tool grasping complexity during tool use in wild chimpanzees (*Pan troglodytes verus*)**

14:15 – 14:30 | Edwin J.A.M. de Laat, Jorg J.M. Massen, Elisabeth H.M. Sterck  
**Tolerance and prosociality in long-tailed macaques**

14:30 – 14:45 | Louise Loyant, Bridget Waller, Jerome Micheletta, Marine Joly, Hélène Meunier, Sébastien Ballesta - **Social tolerance and inhibitory control skills in macaque species**

14:45 – 15:00 | Kai Caspar, Fabian Pallasdies, Larissa Mader, Heitor Sartorelli, Sabine Begall  
**The evolution and biological correlates of anthropoid primate hand preferences**

15:00 – 15:15 | Valentina Truppa, Ilaria Soraci, Luca Marino, Patrícia Izar, Dorothy M. Fragaszy, Elisabetta Visalberghi - **Bimanual coordination and laterality in extractive foraging by wild capuchin monkeys**

15:15 – 15:30 | Johanna Henke-von der Malsburg, Peter M. Kappeler, Claudia Fichtel  
**Linking interspecific cognitive variation to ecological factors in wild sympatric mouse lemur species**

14:00 – 15:30 | Session **C5** – Social Behaviour

*Chair: Evy van Berlo*

14:00 – 14:15 | Jens Mudde, Suska Nolte, Edwin J.C. van Leeuwen, Elisabeth H.M. Sterck  
**Comparing bonobo and chimpanzee strategies to obtain food from a food owner in a group provisioning paradigm**

14:15 – 14:30 | Lauren Seex, Tommaso Saccà, Charlotte K. Hemelrijk  
**How to measure inter-sexual dominance?**



**Friday 3 June 2022**

14:30 – 14:45 | Roy Hammer, Mathieu Stribos, Pia Böhm, Michael A. Huffman, Jorg J.M. Massen, Lena S. Pflüger - **How to bring structure to a monkey-jumble? - Introducing a novel methodological framework for group classification during fission in semifree ranging Japanese macaques (*Macaca fuscata*)**

14:45 – 15:00 | Jana Muschinski, Dora Biro, Susana Carvalho  
**Filling gaps in the primate greeting story: a video-based analysis of proximity events in chacma baboons (*Papio ursinus*)**

15:00 – 15:15 | Angela Stojan, Bernard Wallner, Lena S. Pflüger  
**Male-male social relationships during times of social unrest in a semi-free ranging group of Japanese macaques (*Macaca fuscata*)**

15:15 – 15:30 | Veera Riihonen, Taru Niittynen, Océane Lehrmann, Michael Briga, Sonja E. Koski  
**Personality in horse-human interaction in young horses (*Equus caballus*)**

14:00 – 15:30 | Session **D5 - Symposium: Getting into the mind of the forager - Studying cognition in humans and other primates under natural foraging conditions & Behaviour of wild primates**

**Symposium 8: Getting into the mind of the forager - Studying cognition in humans and other primates under natural foraging conditions. Part 2**

Organizers: Karline Janmaat (University of Amsterdam) & Miguel de Guinea (The Hebrew University of Jerusalem)

Chairs: Karline Janmaat & Miguel de Guinea

14:00 – 14:15 | Miguel de Guinea, Hanlan Fei, Li Yang, Colin A. Chapman, Pengfei Fan  
**Where to sleep next? Evidence for spatial memory associated to sleeping sites in Skywalker gibbons (*Hoolock tianxing*)**

14:15 – 14:30 | Bryndan van Pinxteren, Karline R.L. Janmaat, Martijn Egas  
**Foraging in Fear: the effect of an intra-guild predator on the foraging behavior of sooty mangabeys**

14:30 – 14:45 | R. Adriana Hernandez-Aguilar, Trond Reitan  
**What ecological variables do chimpanzees (*Pan troglodytes*) evaluate before selecting a place to spend the night?**

14:45 – 15:00 | Zoë Goldsborough, Claudio M. Monteza-Moreno, Margaret C. Crofoot, Brendan J. Barrett - **Tool use and tidal cycles: Activity patterns in island-living whitefaced capuchin monkeys (*Cebus capucinus imitator*)**

15:00 – 15:15 | Sylvain Lemoine, Catherine Crockford, Roman Wittig  
**Tactical use of high elevation by wild chimpanzees to detect hostile neighbours**

15:15 – 15:30 | Benjamin Robira, Simon Benhamou, Erlich Obeki Bayanga, Thomas Breuer, Shelly Masi - **How do primates decide where to go? Insights from wild western gorilla cognitive foraging**

**Friday 3 June 2022**

15:30 – 16:00 | Coffee, tea + **posters**

16:00 – 17:30 | Session **A6** - Communication

*Chair: Juan Olvido*

16:00 – 16:15 | -

16:15 – 16:30 | Yuri Kawaguchi, Koyo Nakamura, Masaki Tomonaga, Ikuma Adachi  
**The role of infantile coloration on face recognition in chimpanzees**

16:30 – 16:45 | Nick C.P. Dam, Meike K. Zemihn, Carel J. ten Cate  
**Reproductive cues in trill calls of captive and wild female common marmosets (*Callithrix jacchus*)**

16:45 – 17:00 | Tatiana Bortolato, Cédric Girard-Buttoz, Marion Laporte, Mathilde Grampp, Klaus Züberbuehler, Roman M. Wittig, Catherine Crockford - **Call order varies systematically across chimpanzee populations in a greeting vocal sequence**

17:00 – 17:15 | Brigitte Weiß, Michelle Roderer, Anja Widdig  
**Visual information modulates sniffing behaviour of Barbary macaques at Affenberg Salem**

17:15 – 17:30 | Claire Pérez, Jérôme Micheletta, Alexander Mielke, Bridget M. Waller, Julie Duboscq, Alan Rincon - **Use of NetFACS to describe the repertoire of Barbary macaques' facial behaviour**

16:00 – 17:30 | Session **B6** - Cognition

*Chair: Tom Roth*

16:00 – 16:15 | Vedrana Šlipogor, Markus Stasek, Camila Rezende, Nicola Schiel, Antonio Souto, Thomas Bugnyar - **Common marmosets (*Callithrix jacchus*) learn socially via video demonstrations under captive and natural conditions**

16:15 – 16:30 | Sofia Forss, Erik Willems - **Great Ape curiosity compared: implications for socially triggered curiosity in hominids**

16:30 – 16:45 | Elisa Bandini, Johannes Grossmann, Martina Funk, Anna Albiach Serrano, Claudio Tennie - **Naïve orangutans (*Pongo abelii* and *Pongo pygmaeus*) individually acquire nut-cracking using hammer tools**

16:45 – 17:00 | Rahel K. Brügger, Erik P. Willems, Judith M. Burkart - **Looking out for each other – patterns of synchronization and turn taking in marmoset vigilance**

**Friday 3 June 2022**

17:00 – 17:15 | Alba Motes Rodrigo, Shannon P. McPherron, Will Archer, R. Adriana Hernandez-Aguilar, Claudio Tennie - **Experimental investigation of orangutans' lithic percussive and sharp stone tool behaviours**

17:15 – 17:30 | Claudio Tennie, Alba Motes-Rodrigo  
**Which ape behavioural forms might require copying? Introducing the Method of Local Restriction**

16:00 – 17:30 | Session **C6** – Social behaviour

*Chair: Lena Pflüger*

16:00 – 16:15 | Charlotte Hemelrijk, Matthew Cooper, Delphine de Moor, Julia Ostner, Oliver Schülke, Bernard Thierry, Gerrit Gort - **Adult sex ratio, sexual dimorphism and partial female dominance over males in macaques**

16:15 – 16:30 | Sophia Daoudi-Simison, Eoin O'Sullivan, Phyllis Lee, Hannah Buchanan-Smith  
**Social networks in mixed-species groups of capuchin and squirrel monkeys**

16:30 – 16:45 | Rachel Harrison, Jennifer Botting, Erica van de Waal  
**Social trajectories following early maternal loss in wild vervet monkeys**

16:45 – 17:00 | Karlijn Gielen, Annet L. Louwerse, Elisabeth H.M. Sterck  
**Male infanticide in captive long-tailed macaques (*Macaca fascicularis*)**

17:00 – 17:15 | Olga Feliu, Marti Masip, Carme Maté, Sonia Sánchez, Dietmar Crailsheim, Elfriede Kalcher-Sommer - **Development of social competence in three former pet chimpanzees after living at the Mona sanctuary for 10 years**

17:15 – 17:30 | Mulati Mikeliban, Belinda Kunz, Tri Rahmaeti, Natalie Uomini, Caroline Schuppli  
**Orangutan mothers reactively facilitate learning opportunities for their offspring during food solicitations**

16:00 – 17:30 | Session **D6** – Behaviour of wild primates

*Chair: Dietmar Crailsheim*

16:00 – 16:15 | Odd Jacobson, Meg Crofoot, Susan Perry, Brendan Barrett  
**Using sleep site locations to investigate historical space-use patterns of capuchin groups**

16:15 – 16:30 | Harmonie Klein, Gaelle Bocksberger, Pauline Baas, Sarah Bunel, Erwan Théleste, Simone Pika, Tobias Deschner - **Hunting behavior in central chimpanzees (*Pan troglodytes troglodytes*) in the wild**

**Friday 3 June 2022**

16:30 – 16:45 | Shawn M. Lehman, Malcolm S. Ramsay, Fernando M. Mercado-Malabet, Hajanirina N. Ravelonjanahary, Andriamahery Raz - **Spatial patterns of roadkill within Ankarafantsika National Park, Madagascar**

16:45 – 17:00 | Franziska Grathwol, C. Roos, D. Zinner, C. Ottoni, W Van Neer, N Dominy, G. H. Kopp **Baboons in Ancient Egypt: Geographic origin of mummified baboons as revealed by ancient DNA analysis**

17:00 – 17:15 | Mélissa Berthet, Geoffrey Mesbahi, Guilhem Duvot, Klaus Zuberbühler, Cristiane Cäsar, Júlio César Bicca-Marques - **A population of titi monkeys declined by 80% after the 2016-2018 yellow fever outbreak in Brazil**

17:15 – 17:30 | Joanna M. Setchell, Barthélemy Ngoubangoye – **Decolonising (European) primatology: why and how?**

17:30 – 18:30 | General Assembly EFP

**18:30 – 19:30 | Plenary 5**

**Plenary 5: Kathelijne Koops - Ape origins of human technology**

*Chair: Liesbeth Sterck*

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19:30 – 00:00 | Conference Diner & Party

## Posters

### Poster 1

Sara Fontani, Giovanna Marliani, Pier Attilio Accorsi, Gale Glendewar, Stefano Vaglio - **Olfactory signals and fertility in captive Alaotran gentle lemurs**

### Poster 2

I. Kondova, T. Haaksma, B. Ouwerling, D. Adema, J.A.M. Langermans, N.G. de Groot, R. E. Bontrop - **Biobank of the Biomedical Primate Research Centre (BPRC): Implementation of 3Rs Principles**

### Poster 3

Emile Bryon, Nicky Staes, Jeroen M.G. Stevens, Edwin J.C. van Leeuwen - **Aggression in the *Pan* species: a multi-group comparison in zoo housed settings**

### Poster 4

Natascha Riedel, Julia Mörchen, Puji Rianti, Caroline Schuppli, Anja Widdig - **Measuring ecological competence in immigrant male orangutans**

### Poster 5

Meike K. Zemihn, Miriam Kuspiel, Esther Clarke, Carel ten Cate - **Variability of phee call combinations and related contexts in common marmosets**

### Poster 6

Alma Nederlof, Anne Marijke Schel - **Facial temperatures and vocal parameters as non-invasive measures of animal emotions**

### Poster 7

Lisa-Claire Vanhooland, Thomas Bugnyar, Jorg J.M. Massen - **Comparing the performances of chimpanzees in two selfawareness tasks**

### Poster 8

Annemiek Maaskant, Isabel Janssen, Inge Wouters, Frank van Eerdenburg, Edmond Remarque, Jan Langermans, Jaco Bakker - **Indoor air quality evaluation of naturalistic housed macaques (*Macaca* spp.)**

### Poster 9

Juliette Morgan Berthier, Nicholas E. Newton-Fisher, Brandon C. Wheeler - **Studying primates' emotions out of the lab: Adding an infrared thermographic camera in the basic fieldwork kit of primatologists?**

### Poster 10

R. Cabo, M. Muchlinski, A. Casado, J.M. Potau, J.F. Pastor - **Ultrastructure of *Varecia variegata* sublingual**

### Poster 11

Marit Vernes, Martina Stocker, Annet Louwerse, Jan Langermans - **Group training in rhesus macaque breeding groups – feasibility and success rate**

## Posters

### Poster 12

Megan Beardmore-Herd, Julia Fischer, Kaitlyn Gaynor, Meredith Palmer, Susana Carvalho - **Effects of an extreme weather event on vervet monkeys in the impacted environment of Gorongosa National Park, Mozambique**

### Poster 13

Nora Bennamoun, Marco Campera, Gregg Tully, Anna Nekaris - **Challenging times for African sanctuaries: How the Covid-19 outbreak impacted PASA's members' management**

### Poster 14

Animal Behaviour Collective - **Animal Behaviour Collective: Microgrants and mentorship for animal behaviour students**

### Poster 15

Kevin López-Leal, A. Arroyo, D. Riba - **Termite mound behaviour in semi-captive chimpanzees**

### Poster 16

Claire Mawdsley, Marina Davila-Ross, Susan M. Cheyne, Giuseppe Donatti, Magdalena S. Svensson - **The effect of age and sex on object play behaviour of chimpanzees (*Pan troglodytes*) in a sanctuary environment**

### Poster 17

Martina Stocker, Leonie C. den Ouden, Jan Langermans, Jorg J.M. Massen - **2D:4D ratio in long-tailed macaques - not sexually dimorphic but stable during growth**

### Poster 18

Mathilde Grampp, Patrick Tkaczynski, Catherine Crockford, Roman M. Wittig - **Investigating the link between behavioural flexibility and social complexity in two sympatric primate species**

### Poster 19

Shannon Slater-Johnson, Florence Rocque, Edwin van Leeuwen, Marina Davila-Ross - **Social relationships in orangutans in rehabilitation, applying social network analysis and examining change over a 16 month period**

### Poster 20

Luca Di Vincenzo - **Meta-representation in primates: a proposal for a multimodal approach in the study of language recursiveness**

### Poster 21

Juan Pablo Pimiento Valencia, Vedrana Šlipogor, Jorg JM Massen, Thomas Bugnyar - **How do common marmoset respond to different video stimuli? A comparison between self, other and object**

### Poster 22

Sara Cardoso, R. Adriana Hernandez-Aguilar, Laia Dotras, Nadia Mirghani, Manuel Llana, A. Barciela, Jordi G - **Measuring body size of wild chimpanzees from camera trap photographs using a photogrammetric technique**

**Posters**

**Poster 23**

Marion Varga, Vedrana Šlipogor, Thomas Bugnyar - **Individual differences in problem-solving in common marmosets (*Callithrix jacchus*)**

**Poster 24**

Fabio Crepaldi, Leanne Proops, Florence Rocque, Marina Davila-Ross - **Examining orangutan's open-mouth faces during play and their relationship to friendship**

**Poster 25**

Charlotte Kluiver, Jorg Massen, Debottam Bhattacharjee - **Can inter-individual differences predict time-activity budget of liontailed macaques?**

**Poster 26**

Stephanie Kordon, Christine Webb, Frans B.M. de Waal, Zanna Clay - **Predictors of life success in sanctuary housed bonobos: A longitudinal approach investigating links among rearing, socioemotional skills, health and survivability**

**Poster 27**

Laura van Holstein, Hannah McKay, Kathelijne Koops - **Technological Red Queen: Primate technology and interspecific competition**

**Poster 28**

Judit J. Stolla, Carina Bruchmann, Julia Fischer, Stefanie Keupp - **The "Model/Rival" training method with long-tailed macaques (*Macaca fascicularis*)**

**Poster 29**

Anne-Marijke Schel, S. Kordon, E.H.M. Sterck - **Intentional gestural communication in two macaque species with different social organizations: a test of the social complexity hypothesis for communication.**

**Poster 30**

Débora L. da Cruz, Arrilton Araújo, Judith M. Burkart, - **The presence of infants affects food associated calls in wild marmosets: implications for intentional communication**

**Poster 31**

Charlotte Canteloup, Joonho Lee, Samuel Zimmermann, Marco Hutter, Erica van de Waal - **When monkeys meet an ANYmal robot in the wild**

**Poster 32**

Pooja Dongre, Varun Manavazhi, Erica van de Waal - **Low-ranked females strike back – via their sons: exploring male rank trajectories following natal dispersal**

**Poster 33**

Maria A. van Noordwijk, C. Ackermann, A.M. Marzec, J.A. Kunz, B. Spillmann, L.R. LaBarge, E.R. Vogel, S.S.Utami Atmoko - **Siring success clustered in space but not time in male Bornean orangutans**

**Posters**

**Poster 34**

Elisabeth H.M. Sterck, Han de Vries, Tonko W Zijlstra - **Gaining and maintaining friends: a computer model of primate bonding**

**Poster 35**

Roman Akyüz - **Contagious yawning towards in versus outgroup members in chimpanzees**

**Poster 36**

Nanine de Groot, Annemiek J.M. de Vos-Rouweler, Annet Louwense, Jan A.M. Langermans, Jesse Bruijnesteijn, Natasja G. de Groot, Ronald E. Bontrop - **Genetic assays as tool for conservation management of non-human primate species**

**Poster 37**

Adam Zeeman, Jorg Massen, Karline Janmaat, Debottam Bhattacharjee - **How animal personality shapes human-animal interactions: A visitor-effect study on crested macaque**

**Poster 38**

Emily Elwell, Joshua Cox, Elysse Lloyd, Stefano Kaburu, Christopher Young, Stefano Vaglio - **A novel scent enrichment to trigger mating behaviour in ruffed lemurs**

**Poster 39**

Marie Padberg, Eckert,J., Thiele,M., Wang,D., Howart,L.H., Grosse Wiesmann,C, Haun,D.B.M. - **Don't You (Forget About Me) – The developmental trajectory of the social memory effect in great apes**

**Poster 40**

Leonie Pethig, Peter Kappeler, Claudia Fichtel - **Sex-specific drivers of an unusual adult sex ratio in redfronted lemurs (*Eulemur rufifrons*)**

**Poster 41**

Georgia Sandars, Jake Brooker, Zanna Clay - **The significance of positive behavioural contagion in chimpanzees**

**Poster 42**

Julia Lehmann - **How stressful is social tolerance? An investigation into rank, stress and health measures in two species of macaques**

**Poster 43**

Lena S. Pflüger, Richard L. Hahn, Johanna M. Schulz, Jana Jäckels, Martin Hofer, Helmut Schaschl, Bernard Wallner - **Non-invasive mRNA extraction for gene expression profiling in semi-free ranging Japanese macaques (*Macaca fuscata*)**

**Poster 44**

Sandra Roubos, Annet L Louwense, Jan AM Langermans, Jaco Bakker - **Longterm and reversible contraception in female common marmosets (*Callithrix jacchus*)**

**Poster 45**

Kaja Wierucka, Nikhil Phaniraj, Yvonne Zürcher, Judith M Burkart - **Machine learning and multiverse analysis approaches to studying marmoset vocal accommodation**



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