

Overview

Wednesday 1 June 2022

12.30-15.30 Registration

15.30-16.00 Opening

16.00-17.00 Plenary 1: Daniel Haun (p.3)

17.00-17.45 General Assembly GfP

17.45-18.15 Drinks

Thursday 2 June 2022

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>
10.30-12.30	Symp: Emotional expression (p. 4)	Behaviour of wild primates (p. 5)	Symp: Social behaviour / Social behaviour (p. 5)	Symp: Great ape welfare (p. 6)
14.00-15.30	Symp: Emotional expression / Communication (p.7)	Symp: Economic behaviour (p. 8)	Physiology / Neurobiology (p. 8)	Symp: Great ape welfare / Welfare (p. 9)
16.00-17.30	Social behaviour (p. 10)	Cognition (p. 10)	Genetics / Phylogeny (p. 11)	Symp: Phase out NHP (p. 11)
17.30-18.30	Plenary 3: Tomas Marques-Bonet (p. 12)			
18.30-19.30	Film Night: Family of Chimps – Bert Haanstra			

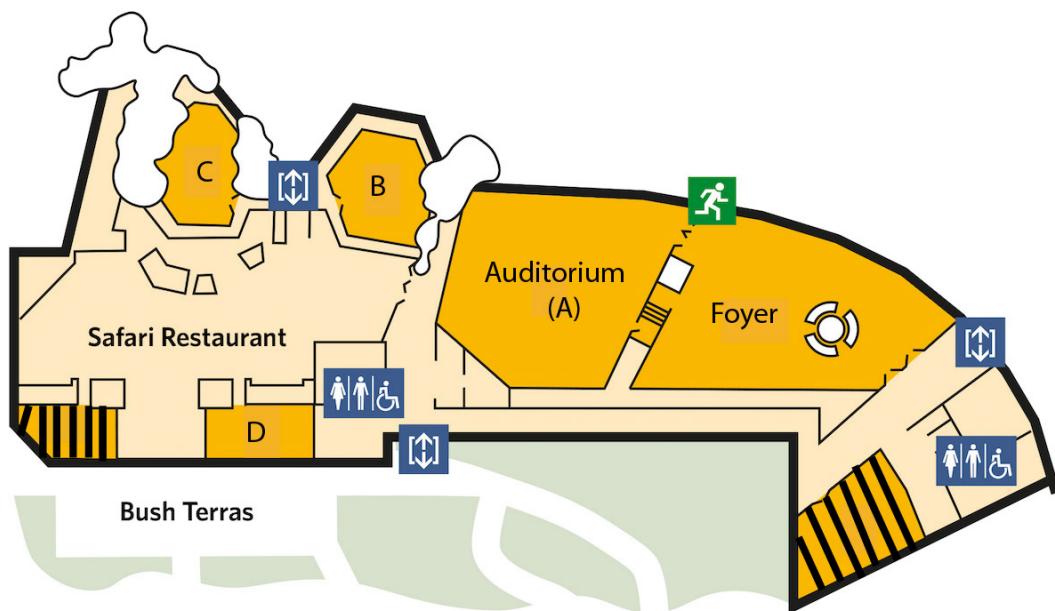
Friday 3 June 2022

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>
10.30-12.30	Symp: Communication / Communication (p. 13)	Cognition (p. 14)	Symp: Exchanging methods human & primates / Social behaviour (p. 14)	Symp: Mind of the forager (p. 15)
14.00-15.30	Communication (p. 16)	Cognition (p. 17)	Social behaviour (p. 17)	Symp: Mind of the forager / Behaviour of wild primates (p. 18)
16.00-17.30	Communication (p. 19)	Cognition (p. 19)	Social behaviour (p. 20)	Behaviour of wild primates (p. 20)
17.30-18.30	General Assembly EFP			
18.30-19.30	Plenary 5: Kathelijne Koops (p. 21)			
19.30-00.00	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 22 ff.

Ground Plan of Conference Venue



Auditorium (A) - Plenary and A sessions

B - Kilimanjaro Lodge

C - Mount Kenia Lodge

D - Canopy Lodge

Foyer - Drinks and Posters



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

10:00 – 10:30 | Coffee, tea + posters

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 (Video presentation)**

11:30 – 11:45 | Camille Lacroux , Emmanuel 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 Mascaro, 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

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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

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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

12:30 – 14:00 | Lunch + posters

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 Addessi (CNR, Rome), Francesca De Petrillo (Newcastle University) & Valerie Dufour (University of Tours)

Chairs: Elsa Addessi, 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 Zetzsche, 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

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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 Vaicekauskaitė, 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 Azis, 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*)?**

15:30 – 16:00 | Coffee, tea + posters

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, Arilton Araújo - **Food sharing under fluctuating food availability: long-term data from wild common marmosets (*Callithrix jacchus*)**

16:30 – 16:45 | Jenny Jaffe, Fabian Leendertz, Sébastien 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. Jaeggli
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 | Ivo Jacobs, Raquel Costa, Kata Horváth, André Gonçalves, Misato Hayashi
The origins of hominin fire use: Japanese macaques as living models

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, Fumihiro 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 Gerp'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 | Samantha López Clinton, Rachel A. Voyt, Axel Jensen, Gideon Erkenswick Watsa, Mrinalini Erkenswick 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

17:30 – 18:30 | Plenary 3

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

Chair: Jan Langermans

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 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 | Alexandra Langehennig-Peristénidou, Daniel Romero-Mujalli, Tjard Bergmann, Marina Scheumann - From simple to complex: vocal development of the trill call in grey mouse lemurs

Friday 3 June 2022

12:15 – 12:30 | Kirsty E. Graham, Marlen Fröhlich
A discussion on meaning, context and function

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 Addessi, 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

10:30 – 10:45 | Marie Rosenkrantz Lindegaard
Does Danger Level Affect Human Bystander Intervention in Real-Life Conflicts? Evidence from CCTV Footage

Friday 3 June 2022

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**

11:00 – 11:15 | 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

Friday 3 June 2022

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

12:30 – 14:00 | Lunch + posters

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

Chair: Paula Escriche 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

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

Friday 3 June 2022

15:15 – 15:30 | Adrian Soldati, Paweł Fedurek, Guillaume Dezecache, 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 tooluse 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, Hélène Meunier, Sébastien Ballesta, Marine Joly - **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. Hemelrijck
How to measure inter-sexual dominance?

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*)**

Friday 3 June 2022

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 | R. Adriana Hernandez-Aguilar, Trond Reitan

What ecological variables do chimpanzees (*Pan troglodytes*) evaluate before selecting a place to spend the night?

14:30 – 14:45 | 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*)**

14:45 – 15:00 | Sylvain Lemoine, Catherone Crockford, Roman Wittig

Tactical use of high elevation by wild chimpanzees to detect hostile neighbours

15:00 – 15:15 | 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**

15:15 – 15:30 | *Discussion / summary Symposium: Getting into the mind of the forager*

15:30 – 16:00 | Coffee, tea + posters

Friday 3 June 2022

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

Chair: Juan Olvido

16:00 – 16:15 | Adam Zeeman, Jorg Massen, Karline Janmaat, Debottam Bhattacharjee - **How animal personality shapes human-animal interactions: A visitor-effect study on crested macaque**

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 Willemse - **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. Willemse, 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-Simson, 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, Martí 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 Mikelinan, 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-Malabé, 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, Barthélémy 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

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

Posters

Poster 1

Sara Fontani, Giovanna Mariani, 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 zoohoused 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

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

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 lontailed 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

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

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

Poster 37

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 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

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

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