

11th Annual ZOO Research Symposium
Antwerp Zoo Centre for Research and Conservation & University of Antwerp
Bonobo Research Network – Workshop

Darwin Hall | ZOO Antwerpen | Wednesday 14 November 2018

08:00 - REGISTRATION - 08:30

08:30 Welcome and Introduction:
Jeroen Stevens – What can the EEP do for bonobo research

Topic I - Genetics / Genomics

- 08:45 Tomas Marques-Bonet (*Universitat Pompeu Fabra, Barcelona*) - Population history and diversity of all great apes.
- 09:00 Peter Frandsen (*Copenhagen Zoo*), Philippe Helsen, Jeroen M.G. Stevens, E. Lizano Gonzàles, J. Stenderup, C. Zacho, Emmanuel Gilissen, M.E. Allentoft, Zjef Pereboom, Tomas Marques-Bonet and Christina Hvilsom - Population genomic diversity in bonobos (*Pan paniscus*) – past, present, and future.
- 09:15 Natasja G. de Groot (*BPRC Rijswijk*), Corrine M.C. Heijmans, Philippe Helsen, Jeroen M.G. Stevens & Ronald E. Bontrop – Bonobo MHC class I variation and the functional consequences.
- 09:30 Nicky Staes (*Antwerp University / Antwerp Zoo Centre for Research & Conservation*) – Proximate origins of socio-cognitive differences in bonobos and chimpanzees: the past, present and future.

Topic II - Development & Endocrinology

- 09:45 Verena Behringer (*Max Plack Institute for Evolutionary Anthropology*), Tobias Deschner, Jeroen M. G. Stevens & Gottfried Hohmann – Physiological profiling of bonobo life-history.

10:00 - COFFEE BREAK - 10:30

Topic III - Behaviour & Cognition

- 10:30 Edwin van Leeuwen (*Antwerp University / Antwerp Zoo Centre for Research & Conservation*) - Cultural Panthropology: What's the extent of intraspecific variation in bonobos and chimpanzees and how does it affect fitness-determining behaviors like social learning, cooperation and prosociality?
- 10:45 Zanna Clay (*Durham University*) Investigating the basis of empathy in bonobos: Insights from eye-tracking experiments.
- 11:00 Laura Lewis (*Harvard University*), Chris Krupenye (*St Andrews University*) & Josep Call - Ingroup-outgroup discrimination and long-term recognition of past groupmates in bonobos and chimpanzees.

- 11:15 Sumir Keenan (*Université St Etienne*) - Identity in bonobo vocal communication – research with the Planckendael bonobos.
- 11:30 Aourell Lanfrey (*Université Lyon/St Etienne*), Jeroen Stevens, Nicolas Mathevon & Florence Levréro - Information decoding in acoustic and olfactory signals in Bonobos.
- 11:45 Jonas Verspeek & Jeroen M.G. Stevens (*Antwerp University / Antwerp Zoo Centre for Research & Conservation*) - In all fairness: behavioural and physiological measures of Inequity Aversion in bonobos.

12:00 - LUNCH BREAK - 13:00

Topic IV – Morphology

- 13:00 François Druelle (*Antwerp University*) - What the morphometry of bonobos is telling us about their locomotor performance.
- 13:15 Timo Van Leeuwen & Evie Vereecke (*KU Leuven Campus KULAK*) Insights into the morphology and function of the bonobo hand: kinematics.
- 13:30 Marie Vanhoof & Evie Vereecke (*KU Leuven Campus KULAK*) - Insights into the morphology and function of the bonobo hand: anatomy.
- 13:45 Sven Grawunder & Gottfried Hohmann (*Max Plack Institute for Evolutionary Anthropology*) - Comparing bonobo, chimpanzee and human larynx morphologies – first results and next steps.

Topic V - Welfare & Health

- 14:00 Daan Laméris (*Antwerp University / Antwerp Zoo Centre for Research & Conservation*) Marina Salas, Jeroen MG Stevens - A cognitive bias study into individual bonobo emotions: plans for future research
- 14:15 Francis Vercammen (*Antwerp University / Antwerp Zoo Centre for Research & Conservation*) - Respiratory viral disease in the Planckendael bonobos.
- 14:30 Sarah De Pauw (*Odisee University College*) – Browse preference in bonobos.
- 14:45 Ilse Gerits (*Ghent University*), Eline Wydooghe, Francis Vercammen, Jeroen M.G. Stevens & Cyriel Ververs - Semen collection, evaluation and freezing in the bonobo (*Pan paniscus*).

15:00 - COFFEE BREAK - 15:30

15:30 - CLOSED DISCUSSION - 18:00

11th Annual ZOO Research Symposium
Antwerp Zoo Centre for Research and Conservation
'Introducing ZOO Science'

Darwin Hall | ZOO Antwerpen | Thursday 15 November 2018

08:30 - **REGISTRATION** - 09:15

09:15 Welcome and Introduction: Zjef Pereboom

Wildlife monitoring

09:30 Steffi Dekegel, Nikki Tagg & Jacob Willie – Wildlife under pressure: assessing the effects of biophysical and anthropogenic factors on tropical forest mammals and their habitats in different land-use types in the Dja Conservation Complex, Cameroon.

09:50 Anne Laudisoit, Nikki Tagg, Jacob Willie, Tiffany Scholier, Pierre Huyghe, J. Asimonyio Anyio, J. Dz'na, B. Ndjoku, Erik Verheyen, C. Mande & Herwig Leirs - First glimpse at an enigmatic chimpanzee population in forest fragments of the Albert lake escarpment (Rafale), Ituri, DR Congo.

10:10 Roberto Fiorini-Torrico, Martine Vercauteren & Kristel De Vleeschouwer - Evaluating the importance of Golden-headed lion tamarins for the dispersal of fruiting tree species in South-Bahia, Brazil.

10:30 - COFFEE BREAK - 11:00

Population Genetics

11:00 Philippe Helsen – Vulture whereabouts at the next (DNA) level: scientific gossip or just another piece of information to study scavenger reintroductions.

11:20 Marloes Leeflang & Philippe Helsen – Are mothers cursing their sons? Prevalence of mtDNA induced sex-specific differences in survival and fertility in zoo populations.

11:40 Peter Galbusera & Kristel De Vleeschouwer - Genetic research for the conservation of Golden-headed lion tamarins: results so far and plans for the future.

Wellbeing and health in zoo animals

12:00 Marina Salas, Xavier Manteca, Teresa Abáigar, Maria Delclaux, Conrad Enseñat, Eva Martínez-Navado, Miguel Ángel Quevedo & Hugo Fernández-Bellon - Using farm animal welfare protocols as a base to develop protocols for the assessment of welfare of zoo animals.

12:20 Esther Lichtenauer & Sandra Nauwelaerts - Detecting early signs of lameness - Comparing the pressure patterns with a database collected for the individual limb.

12:40 Francis Vercammen - Elephant tusk repair in Zoo Antwerpen.

13:00 - LUNCH – 14:00

14:00 – POSTER SESSION – 14:30

14:30 – [MBUDHA, LA SOURCE DES CHIMPANZÉS](#) – 15:30

Film written and produced by Anne Laudisoit and Caroline Thirion (52' – 2018 – French Version)

14:30 - OPTIONAL ZOO VISIT - 17:00