



DLC 50th Anniversary Symposium Event Schedule Washington Duke Inn

Wednesday, September 21, 2016

6:00 - 9:00 pm: Welcome reception for speakers and attendees (Washington Duke Inn – Presidents I):
"Anne Yoder and Peter Klopfer to welcome guests"

Thursday, September 22, 2016 (Presidents I & II)

Morning Session: Cognition & Behavior – Session Chair Erin Ehmke, DLC Research Manager

8:30 - 8:55: Brian Hare: *"Lemurs have gone from ignored to adored in cognitive research thanks to the Duke Lemur Center"*

9:00 - 9:25: Elizabeth M. Brannon: *"Counting on lemurs to uncover the evolutionary origins of quantitative cognition"*

9:30 - 9:55: Evan MacLean: *"Lemur Diversity as a Natural Experiment in Cognitive Evolution"*

10:00 - 10:30 (break- refreshments in the Rotunda)

10:30 - 10:55: Christine Drea: *"Female Lemurs Rule! Gaining Proximate and Ultimate Understanding of Social Dominance via Comparative Studies"*

11:00 - 11:30: Peter Kappeler: *"The evolution of lemur social systems"*

11:30 - 12:30 (lunch)

Afternoon Session: Evolution & One Health – Session Chair Robert Schopler, DLC Veterinarian

12:30 - 12:55: Anne-Claire Fabre: *"The evolution of prehensile behaviour and forelimb morphology in prosimians"*

1:00 - 1:25: David Weisrock: *"What do we really know about mouse lemur species diversity?"*

1:30 - 1:55: Marina B. Blanco: *"Dwarf lemur biodiversity through the lens of hibernation"*

2:00 - 2:30 (break – refreshments in the Rotunda)

2:30 - 2:55: Sheena Faherty: *"Gene expression and physiological extremes in primate hibernation"*

3:00 - 3:25: Erin McKenney: *"Gut Instincts: Lemur microbial community dynamics in health and disease"*

3:30 - 3:55: Fidy Rasambainarivo: *"One island, one health: transmission of pathogens between species at the human-wildlife interface"*

4:00 - 4:25: Meredith Barrett: *"Impacts of environmental change on lemur health"*

4:30 - 4:55: Peter Larsen: *"Pathogen discovery in Madagascar: the utility of next-generation disease surveillance for lemur conservation"*

Thursday Evening Poster Session

5:45 – 9:00 pm: Bus transport to and from Washington Duke Inn to the Duke Lemur Center

6:00 – 9:00 pm: Poster Session & Reception throughout the Lemur Center Grounds

- 6:00 – 7:00 pm: Poster presenters will be at their posters for questions

POSTERS

Into the Dark: Physiology & Behavior of Nocturnal Prosimians

1. **Rates of evolution among sperm genes and implications for speciation in a small nocturnal primate, genus *Microcebus*.** *C. Ryan Campbell, Matthew Dubin, Anne Yoder*
2. **Does food type and abundance affect foraging? Aye!** *Ethan Doherty*
3. **The value of captive individuals in isotope studies.** *Brooke Crowley*
4. **A comparison of navigation strategies in three nocturnal lemur species.** *Julie Teichroeb & Alexander Vining*
5. **A study on the induction of torpor in the western fat-tailed dwarf lemur (*Cheirogaleus medius*).** *Wade Hubbs*
6. **Use of color vision in aye-aye foraging decisions.** *Joe Sullivan*
7. **Anti-predator behaviors in four species of nocturnal strepsirrhines at the Duke Lemur Center.** *Cody Moser*
8. **Alcohol discrimination and preferences of nectar-feeding primates.** *Sam Gochman & Nathaniel Dominy*
9. **An analysis of the correlation between anxious behavior and cortisol levels in captive aye ayes (*Daubentonia madagascariensis*) at the Duke Lemur Center.** *Audra Bass*

Madagascar & the DLC: Past, Present, and Future

10. **Get your lemur, loris, and galago data here! 50 years of DLC data now available.** *Sarah Zehr*
11. **Geometric morphometric approaches to inferring bite force and diet in extinct strepsirrhines.** *Anthony Herrel, Maitena Dumont, Christine Wall, David Brewer, Erin Ehmke, Kay Welser, Elizabeth Dumont, Laurie Godfrey & Anne-Claire Fabre*
12. **New virtual endocasts of large-bodied subfossil lemurs from the Duke Lemur Center, Division of Fossil Primates collections.** *Kari Allen & Tara Clarke*
13. **Importance of Ranomafana-Andringitra corridor for biodiversity conservation.** *Tanjona Ramiadantsoa, Otso Ovaskainen, Joel Rybicki & Ilkka Hanski*
14. **Beyond biology: The education and technology behind lemur conservation.** *Kelly Chung & James Wu*
15. **Ra's legacy: Sympatry in two populations of crowned lemurs and Sanford's lemurs in Northern Madagascar.** *Ben Freed*
16. **Longitudinal health assessments of lemur populations at Ambatovy - preliminary results.** *Cathy Williams, Randall Junge, Vanessa Mass, Hajanirina Rakotondrainibe, Karine Mahefarisoa & Jhon Rasambainarivo*

Bodies & Brains: Physiology, Health, and Cognition

17. **SMARTA: Subject-Mediated Automatic Remote Testing Apparatus for color vision discrimination tasks in ruffed lemurs (*Varecia spp.*).** *Ray Vagell, Vance Vagell, Rachel Jacobs, James Gordon & Andrea Baden*
18. **Understanding female social dominance: Comparative behavioral endocrinology in the genus *Eulemur*.** *Joe Petty*
19. **Heads or tails? Influence of substrate orientation on method of descent in 5 species of strepsirrhine primates.** *Bernadette Perchalski*
20. **Messages From The upright lemur brigade! A preliminary descriptive study of how species-specific arboreal adaptations influence communicative strategies in *Propithecus coquereli*.** *Robin Rickli*
21. **Intraspecific semicircular canal variation — a missing element in adapt scenarios?** *Lauren Gonzales, Michael Malinzak & Richard Kay*
22. **Digital grasping pressures and contact surface area: A test for correlation.** *Kim Congdon*
23. **Personalized disease: Individual variation in gut-microbial response to *Cryptosporidium*.** *Lydia Greene & Erin McKenney*
24. **Water choices and disease: How do lemurs avoid exposure to parasites?** *Kyle Smith, Caroline Amoroso, & Charles Nunn*
25. **Genetic variation at the Major Histocompatibility Complex in ring-tailed lemurs (*Lemur catta*) and its impact on captive survival.** *Katie Grogan & Christine Drea*
26. **Bamboo cyanide does not protect *Hapalemur aureus* or *Prolemur simus* from gastrointestinal parasite infections.** *Isabelle Clark, A. Herman Rafalinirina, Jan Gogarten, & Patricia Wright*
27. **Is resistance futile: Antibiotic resistance in the gut microbiomes of wild and captive ring-tailed lemurs.** *Sally Bornbusch & Lydia Greene*
28. **One-locus differentiation of socially transmitted *E. coli* haplotypes in ringtailed lemurs (*Lemur catta*).** *Gena Sbeglia, Patricia Wright, Veronika Tchesnokova & Daniel Dykhuizen*
29. **Cathemerality, sleep, and cognition in seven captive lemur species.** *David Samson, Joel Bray & Charles Nunn*
30. **No evidence for yawn contagion in lemurs.** *Rachna Reddy, Christopher Krupenye, Evan MacLean & Brian Hare*
31. **Implicit sequence learning in ring-tailed lemurs (*Lemur catta*).** *Talia Baghdoyan, Caroline Drucker & Elizabeth Brannon*
32. **Lemur cognition, social brains, and the evolution of intelligence.** *Aaron Sandel*

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Friday, September 23, 2016 (Presidents I & II)

Morning Session: Cognition & Biomedicine – Session Chair Sarah Zehr, DLC Data Manager

8:30 - 8:55: Michael Platt: "The Evolution of Visual Decision Making in Primates"

9:00 - 9:25: Alexandra Rosati: "The ecology and evolution of primate spatial memory"

9:30 - 9:55: Jeffrey Rogers: "Decoding mouse lemurs: DNA sequencing, comparative genomics and the remarkable biology of an emerging research model"

10:00 – 10:30 (break – refreshments in the Rotunda)

10:30 - 10:55: Fabien Pifferi: "The mouse lemur as a model for research on aging"

11:00 - 11:25: Steven N. Austad: "Small bodied primates: a critical need for aging research"

11:30 - 12:30 (lunch)

Afternoon Session: Conservation & Biogeography – Session Chair Gregg Gunnell, Director Division of Fossil Primates

12:30 - 12:55: Alex Dehgan: "Conservation 3.0 - The Future of Conservation and Madagascar"

1:00 - 1:25: Charlie Nunn: "Cookstoves, Respiratory Health, and Conservation of Lemur Biodiversity in SAVA, Madagascar"

1:30 - 1:55: Kathleen Muldoon: "Biogeographic Evolution of Madagascar's Primate Communities: Endemism, Elevation, and the Fossil Record"

2:00 - 2:30 (break – refreshments in the Rotunda)

2:30 - 2:55: Jason L. Brown: "Predicting the genetic consequences of future climate change: the power of coupling spatial demography, the coalescent, and historical landscape changes"

3:00 - 3:25: Jörg U. Ganzhorn: "Tipping points in lemur ecology and conservation"

3:30 - 3:55: Jonah Ratsimbazafy: "Lemur conservation in Madagascar: Good news in bad times"

4:00 - 4:30: Patricia Wright: "Lemur Conservation in Madagascar-the next ten years"

Friday, September 23, 2016

Duke Lemur Center's 50th Anniversary Gala – Washington Duke Inn

6:00 – 7:00 pm: Cocktail Reception (Presidents Gallery)

7:00 – 8:30 pm: Dinner with Plenary Speaker, Dame Alison Richard (Presidents Ballroom)

8:30 – 10:00 pm: Music and dancing with Malagasy world beat musician, Razia Said