

New perspectives on primate adaptations to complex environments and implications for early human evolution

Wenner-Gren Foundation Workshop at Gorongosa National Park,
Mozambique, 23-25 July 2019

Organizers: Susana Carvalho, René Bobe, and Felipe Martínez



Workshop Program – Draft 4 June 2019



New perspectives on primate adaptations to complex environments and implications for early human evolution

Monday 22 July 2019

Evening welcoming reception

Tuesday 23 July 2019

Introduction to Gorongosa National Park: conservation, ecology, and primates

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| 8.00 – 9.00am | Introduction to Gorongosa National Park
Marc Stalmans |
| 9.00 – 10.00am | The Paleo-Primate Project Gorongosa
Susana Carvalho and PPPG team |
| 10.00 – 10.30am | Discussion and coffee break |
| 10.30 – 10.50am | Bones of Gorongosa: mammal distribution and abundance
Jacinto Mathe |
| 10.50 – 11.10am | Baboon movement and leadership on the Gorongosa floodplain
Lynn Bevan-Lewis |
| 11.10 – 11.30am | Vocalisations and vigilance: Monitoring habituation and indicators of risk perception in baboons (<i>Papio ursinus</i>) in Gorongosa, Mozambique
Philippa Hammond |
| | Discussion |
| 12.15 – 1.45pm | Lunch |

Tuesday 23 July 2019 (continued)

Theme 1: What are the key behaviours that allow baboons (and primates generally) to adapt to highly complex and dynamic environments?

2.00 – 2.30pm **Birth and death in a changing environment: environmental influences and life history trade-offs in wild baboons**
Susan Alberts

2.30 – 3.00pm **Social learning in dynamic networks: is information transmission in chacma baboons robust to change?**
Alecia Carter

3.00 – 3.30pm **Primate responses to landscapes: managing the food versus predation risk trade-off in complex environments**
Russell Hill

3.30 – 4.00pm Discussion and coffee break

4.00 – 4.30pm **Baboon group-differences in a benign forest-woodland mosaic at Gombe**
Anthony Collins

4.30 – 5.00pm **Charting the neglected West: the social system of Guinea baboons**
Julia Fischer

Discussion

7.00pm Dinner

Wednesday 24 July 2019

Morning visit to the Park: The vegetation of Gorongosa, with Tongai Castigo

12.15 – 1.45pm Lunch

Theme 2: What are the processes that result in population divergence and hybridization in baboons (and primates generally), and what are the implications for our understanding of human evolution?

2.00 – 2.30pm **Gorongosa baboon phenostructure**
Felipe Martínez and Thomas Püschel

2.30 – 3.00pm **Phylogeography of African savanna monkeys**
Dietmar Zinner

3.00 – 3.30pm Discussion and coffee break

3.30 – 4.00pm **Genetic structure of Gorongosa baboons**
Maria Joana Ferreira da Silva, Cristian Capelli, Felipe Martínez

4.00 – 4.30pm **Genomic insights into the evolutionary relationships of Gorongosa baboons**
Cristian Capelli, Cindy Santander, Maria Joana Ferreira da Silva, Felipe Martínez

Discussion

5.30 – 6.30pm **Keynote lecture: Analogy and contingency in the evolution of baboons and humans**
Clifford Jolly

7.00pm Dinner

Thursday 25 July 2019

Theme 3: How can we best study ecological relationships in complex modern ecosystems to understand key variables relevant to early hominin evolution?

- 8.00 – 8.30am **The paleoecology of early hominins: key questions**
René Bobe
- 8.30 – 9.00am **The status of *Australopithecus***
Zeresenay Alemseged
- 9.00 – 9.30am **Living together in complex environments – neutral and adaptive models
in Plio-Pleistocene primate evolution and ecology**
Sarah Elton
- 9.30 – 10.00am **Primate technology in context: examining the broader ecological and
foraging landscapes**
Katarina Almeida-Warren
- 10.00 – 10.30am Discussion and coffee break
- 10.30 – 11.00am **Water: a critical resource that shaped hominin evolution**
Linda Marchant
- 11.00 – 11.30am **Comparison of wetland and dry savanna foraging productivity in the
Okavango: significance for human evolution**
Richard Wrangham and Andrew Cunningham
- 11.30 – 12.00pm **Mozambique in Island Africa**
Jonathan Kingdon
- Discussion
- 12.15 – 1.45pm Lunch
- 2.00 – 4.00pm **Roundtable: Answering the key questions, collaborations, and
publication plans**
- Epilogue: Late afternoon and evening in the Park**