

## **BIOMORA24**

## Unique biology of mole-rats - from husbandry to biomedical applications

28 Nov - 29 Nov, 2024 MPINB Bonn



	Thursday, November 28, 2024
09:30 - 09:45	<b>Welcome</b> Organizing Committee Alison Barker, Pascal Malkemper, Paul Friedemann Pohlig, Jane Reznick
09:45 - 10:45	Scientific session 1 Chair: tba Gary Lewin, Max Delbrück Center for Molecular Medicine, Berlin What is the sensory basis of underground navigation in mole-rats? Short talk (selected abstract) Short talk (selected abstract)
10:45 - 11:15	Coffee break
11:15 - 12:45	Husbandry session 1 Chair: tba Thomas Park, University of Illinois at Chicago, USA Mole-rat adaptations to living in low O2 and high CO2 and colony management in the lab setting Short talk (selected abstract) Martin Toft, QM Diagnostics, Nijmegen, Netherlands Establishment of health screening for naked mole-rats Short talk (selected abstract)
12:45 - 13:45	Lunch break
13:45 - 14:45	Husbandry session 2 - Establishing African mole-rat husbandry: legal aspects, difficulties and solutions Katharina Dinger, University of Cologne, Germany tba Nina Vogt, MPI for Brain Research, Frankfurt, Germany Veterinary approaches to health and breeding in the naked mole-rat Sandra Buhl, MPI for Biology of Ageing, Cologne, Germany tba
14:45 - 15:45	Husbandry session 3 Chair: tba Paul Friedemann Pohlig, CECAD University of Cologne, Germany The Establishment of a naked mole rat care program - we learn from our mistakes Sandra Honigs, Aquazoo Löbbecke Museum, Düsseldorf, Germany tba
15:45 - 16:15	Coffee break
16:15 - 17:00	Scientific session 2 Nigel Bennett University of Pretoria, South Africa Socially induced infertility in highly social mole-rats: a tale of two mechanisms of reproductive suppression
17:00 - 19:00	Poster session, followed by dinner and networking



	Friday, November 29, 2024
9:00 - 10:15	Scientific session 3 Hynek Burda, Charles University Prague, Czech Republic Research on subterranean rodents in its fifth decade: history, achievements and challenges Short talk (selected abstract) Short talk (selected abstract)
10:15 - 10:45	Coffee break
10:45 - 12:45	Scientific session 4 Kaori Oka, Kumamoto University, Japan Unique regulation of cell death in a long-lived cancer-resistant rodent, the naked mole-rat Short talk (selected abstract) Radim Sumbera, University of Budweis, Czech Republic News on African mole-rats diversity and phylogeny: museum material barcoding and genomic approaches Short talk (selected abstract) Michaela Frye tba
12:45 - 13:45	Lunch break
13:45 - 15:15	Scientific session 5 Jonathan Bayerl, UCSF, San Francisco, USA Long live the queen – how metabolic determinants shape lifespan in eusocial super agers
	Short talk (selected abstract) Sabine Begall, University of Duisburg-Essen, Germany Tensile skin properties of naked and Ansell's mole-rats Short talk (selected abstract)
15:15 - 15:45	Sabine Begall, University of Duisburg-Essen, Germany Tensile skin properties of naked and Ansell's mole-rats
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	Sabine Begall, University of Duisburg-Essen, Germany Tensile skin properties of naked and Ansell's mole-rats Short talk (selected abstract)  Coffee break  Scientific session 6 Rochelle Buffenstein, University of Illinois at Chicago, USA Insights into the extraordinary longevity and cancer resistance of the naked mole-rat Short talk (selected abstract) Melissa Holmes, University of Toronto, Canada Neuroendocrinology and plasticity of social phenotype in eusocial mammals

