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AVIAN COGNITIVE NEUROSCIENCE

The bird's eye view on the evolution of cognition

Ruhr University Bochum, Germany. March 16-17 2020

Monday, March 16

08:30 Registration

09:30 Welcome

09:35 Session 1: Jonas Rose

Thomas Bugnyar *What constitutes 'social complexity' and 'social intelligence' in birds? Lessons from ravens*

Jessie Adriaense *The experimental investigation of avian emotions*

Victoria Lee *Jackdaws learn socially about dangerous people*

11:00 Coffee break

11:15 Session 2: Kaya von Eugen

Steve Briscoe *Evolutionary origins of the avian telencephalon*

Cristián Gutiérrez-Ibáñez *Evolution of forebrain-cerebellar pathways in birds: Convergence with mammals*

Felix Ströckens *Anatomical foundations of higher cognitive functions in avian species*

13:00 Lunch and Posters

14:30 Session 3.1: Aylin Apostel

Jayden van Horik *Killjoy explanations for cognitive ability*

Uwe Mayer *Hippocampal response to novel environments in domestic chicks*

15:55 Coffee break

16:10 Session 3.2

Will Clark *Developing methodology to investigate visual object recognition in the pigeon brain using fMRI*

Aylin Apostel *Color working memory accuracy in jackdaws*

Max Kirschhock *More than nothing: Neuronal correlates of numerosity zero in the NCL of carrion crows*

17:15 Reception

17:30 Keynote Lecture

Hermann Wagner *Some aspects of cognitive behavior in barn owls: data, observations, speculation*

19:00 Dinner: Q-West

Tuesday, March 17

10:00 Keynote Lecture

Sarah Woolley *Auditory preferences and individual recognition in a female songbird*

11:00 Coffee break

10:45 Session 4.1: Lukas Hahn

Daniela Vallentin *Neural mechanisms of vocal interactions in songbirds*

Lukas Hahn *Probing sequential working memory in crows*

12:20 Lunch

13:20 Session 4.2:

Alice Auersperg *CockaTools: Innovative problem solving in an Indonesian parrot*

Hiroshi Matsui *Movement as a window of cognition: quantification of behavior with open source tracking software*

Susan Healy *What does it take to make a nest?*

15:05 Coffee break

15:20 Panel Discussion *New trends and challenges of the field*

Michael Colombo, Sarah Woolley, Daniela Vallentin,

Thomas Bugnyar, Onur Güntürkün

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