

## Zoology – NVG 2019 Conference Programme

### Wednesday November 28, location Academy Building Heymanszaal (room 1111.0001)

- 19:00 – 20:00 Registration (Academy Building, Broerstraat 5, 9712 CP Groningen)  
20:00 – 20:10 Opening NVG part by Liesbeth Sterck (Chair of NVG)  
20:10 – 21:00 Dobberke Evening Lecture Jolle Jolles (Germany): *The role of individual heterogeneity in the collective behaviour of animal groups*;  
Chair Ruud van den Bos, Nijmegen

Thereafter: NVG-organized social @ Cafe de Keyzer, Turftorenstraat 4 9712 BP Groningen

### Thursday November 28, location Hanze Plaza, Protonstraat 16, Groningen

- 08:30 – Registration  
09:00 – 11:00 Program by NVG; **Session 1 Cognition and social behaviour**; Chair Wouter Halfwerk – Room Hamburg  
09:00 – 09:40 Jorg Massen, Utrecht: Prosociality in parrots and corvids  
09:40 – 10:05 Jonas Torfs, Antwerp: Comparative Cognition: Using lacertid lizards as a study system  
10:05 – 10:30 Alexander Kotrschal, Wageningen: The role of brain size in learning and memory  
10:30 – 10:55 Lauren Seex, Groningen: The interrelation of dominance style, cohesion and undecided fights in three species of lemur  
  
11:00 – 11:30 NVG General Meeting – Room Hamburg / opportunity to view posters  
  
11:30 – 12:15 Lunch  
  
12:15 – 12:30 Opening Zoology & NVG part by Eddy van der Zee, Ellen Decaestecker (President RBZS) and Jan Kammenga (Chair KNDV) – Room Hamburg  
12:30 – 13:15 BRILL Baerends lecture Susanne Åkesson (Sweden): *Long-distance navigation in birds: lessons learned from cage experiments and individual tracking*; Chair Barbara Helm – Room Hamburg

13:15 – 14:45 **Session 2**

Time	KNDV/ RBZS (parallel session A – Room Dinant)	NVG (parallel session B – Room Brugge)
	Chair: Gert Jansen, Rotterdam Learning and memory in <i>C. elegans</i>	Chair: Jorg Massen, Utrecht Spatial movement and learning
13:15 – 13:45	Isabel Beets, Leuven: Neuropeptide modulation of <i>C. elegans</i> learning and memory circuits.	Marion Nicolaus, Groningen: Unravelling the mechanisms of population phenotypic changes: do individual differences matter for colonisation?
13:45 – 14:05	Martin Harterink, Utrecht: The formation of axons and dendrites, center stage for the microtubule cytoskeleton	Gilles De Meester, Antwerpen: Simple habitats, simple lizards? The effect of habitat complexity on spatial memory in a Mediterranean lizard
14:05 – 14:25	Yiru Wang, Wageningen: The importance of <i>C. elegans</i> ' variable genetic backgrounds in alpha-synuclein pathology studies	Krista van den Heuvel, NIOO-KNAW: Individual variation in spatial reversal learning performance in captive and wild great tits ( <i>Parus major</i> )
14:25 – 14:45	Gert Jansen, Rotterdam: Plasticity in gustatory and nociceptive neurons balances salt navigation in <i>C. elegans</i>	Stephen Salazar, Bielefeld: More aggressive male blue tits take greater risks to provision their young

Time	KNDV/ RBZS (parallel session C - Room Hamburg)
	Chair: Ulrich L. M. Eisel, Groningen Animal models for cognitive disorders
13:15 – 13:45	Helmut Kessels: Effects of amyloid-beta on glutamatergic synapses
13:45 – 14:00	Wiggert van Ginkel: Neurocognitive problems in disorders of amino acid metabolism, are mice an adequate model?
14:00 – 14:15	Lara Barazzuol: Targeting protein aggregation to improve radiotherapy-induced neurocognitive dysfunction
14:15 – 14:30	Regien Schoemaker, Groningen: (Neuro)inflammation in postoperative cognitive decline; studies in a rat model
14:30 – 14:45	Jan Van Erum, Debby Van Dam, Peter Paul De Deyn, Groningen / Antwerp: Electroencephalographic characterization of dementia mouse models

14:45 – 15:15 Coffee/tea break

14:45 – 15:15 Joint board meeting of the KNDV and RBZS – Board Room

15:15 – 16:00 Plenary lecture Tomás Ryan (Ireland): *Information Storage in Memory Engrams*; Chair Robbert Havekes – Room Hamburg

16:00 – 17:30 **Session 3**

Time	KNDV/ RBZS (parallel session A – Room Dinant)	Session hosted by RBZS (parallel session B – Room Brugge)	NVG (parallel session C - Room Hamburg)
	Chair: Benno Roozendaal, Nijmegen Stress effects on memory generalization in mice, rats and humans	Chair: Peter Korsten, Bielefeld Acoustic development and its disruption	Chair: Yoran Gerritsma, Groningen Stress and social interaction
16:00 – 16:30	Harm Krugers, UvA Amsterdam: Glucocorticoid effects on memory strength and accuracy	Quanxiao Liu, Leiden: Combine behavioural tests and machine learning: study the effects of traffic noise on developing birds	Magdalena Kozielska & Elles Jetten, Groningen: A neural network modelling approach to the evolution of emotions and learning
16:30 – 16:50	Yannick Boddez, Leuven: Better sleep on it: the effect of sleep deprivation on fear expression	Annebelle Kok, Leiden: How short-term and long-term noise exposure interact to affect anti-predator behaviour	Neeraj Kumar, Groningen: Mechanisms of hormone mediated parent-offspring conflict
16:50 – 17:10	Linda de Voogd, Nijmegen: Consolidation and alteration of memories for stressful experiences in humans	Inge van der Knaap, Leiden: Effects of seismic sound on the movement and behaviour of Atlantic cod in the Belgian Part of the North Sea	Nicholas Per Huffeldt, Greenland: Corticosterone stress-response of a charadriiform seabird under the continuous light of polar summer
17:10 – 17:30	Chunan Guo, Nijmegen: Stress hormone effects on the accuracy of episodic-like memory and its neural correlates	Jeroen Hubert, Leiden: Effects of seismic airgun playbacks on swimming patterns and behavioural states of Atlantic cod	Haley Kenyon, Canada: Why do avian color patterns differ in sympatry? - Testing alternative selective pressures

17:30 – 19:15 Posters, drinks and diner

19:15 – 20:00 Transport from Hanze Plaza to Aletta Jacobshal (Bus in front of building)

**EVENING PROGRAMME, location [Aletta Jacobshal](#)**

20:00 – 21:30 Distinguished Zoologist Lecture Richard Morris (UK): *The making and keeping of memory*; Chair Robbert Havekes

Thereafter: possibility to socialize @ Cafe de Keyzer, Turftorenstraat 4 9712 BP Groningen

## Friday November 29, location Hanze Plaza

09:00 – 9:30 Registration

09:30 – 10:15 Plenary lecture Guy Bloch (Israel): *The Social Clock of the Bee*; Chair Jean-Christophe Billeter – Room Hamburg

### 10:15 – 11:45 Session 4

Time	KNDV/ RBZS (parallel session A – Room Dinant)	KNDV/ RBZS (parallel session B – Room Brugge)	NVG (parallel session C - Room Hamburg)
	Chair: Chiel Vellema, Utrecht Neural mechanisms of avian learned behaviours	Chairs: Jos Prickaerts & Arjan Blokland, Maastricht	Chair: Ellen Decaestecker, Leuven Signalling
10:15 – 10:45	Manfred Gahr, Seewiesen: Mechanisms of becoming an attractive singer bird	Arjan Blokland, Maastricht: Does object recognition reflects episodic memory in rats and mice?	Jérôme Delroisse, Mons: Perceive the light without eyes and brain: insights from the pentaradial echinoderms
10:45 – 11:05	Jacqueline van der Meij, Nijmegen: A birds' brain view on sleep-related memory consolidation	Samantha Hughes, Nijmegen: Memory and learning: An invertebrate perspective	Peter Korsten, Bielefeld: Begging Blue Tit Nestlings Discriminate Between the Odour of Familiar and Unfamiliar Conspecifics
11:05 – 11:25	Vincent van Meir, Antwerp: Population-based brain analysis reveals sexual dimorphism in previously-undetected regions of the songbird brain	Franz Josef van der Staay, Utrecht : The holeboard: a task for assessing spatial learning and memory in different species	Matías Muñoz, VU Amsterdam: Effects of leaf substrates on acoustic signal emission
11:25 – 11:45	Maggie Ko, Seewiesen: Characteristics of song, brain-anatomy and blood androgen levels in spontaneously singing female canaries	Ruud van den Bos, Nijmegen: Learning and memory: a (zebra)fish perspective	Jing Wei, Leiden: Effects of the early social environment on zebra finch song model choice and song learning

11:45 – 13:00 Posters + Lunch

13:00 – 13:45 Plenary lecture Caroline Nieberding (Belgium): *Maladaptive learning of mate preference in a butterfly facing climate change*; Chair Ellen Decaestecker – Room Hamburg

13:45 – 15:15 **Session 5**

Time	KNDV/ RBZS (parallel session A – Room Dinant)	NVG (parallel session B – Room Brugge)	Session hosted by RBZS (parallel session C - Room Hamburg)
	Chair: Huib Mansvelter, VU Amsterdam	Chair: Marion Nicolaus, Groningen Vocal communication	Chair: Caroline Nieberding, Louvain Plasticity and disruption
13:45 – 14:15	Onur Güntürkün, Bochum: Cognition without Cortex	Ralph Simon, VU Amsterdam: Development and application of a robotic zebra finch (RoboFinch) to study multimodal cues in vocal communication	Bertanne Visser, UCLouvain: Phenotypic plasticity explains violation of Dollo’s law of irreversibility
14:15 – 14:35	Pryanka Rao, VU Amsterdam: What memories Arc made of	Sanne Moorman, Utrecht: Altering neural activity in the songbird cortical-basal ganglia circuit drives long-lasting changes in learned song	Frank Raven, Groningen: A brief period of sleep deprivation reduces dendritic spine density in the mouse dentate gyrus
14:35 – 14:55	Katharina Riebel, Leiden: Song memorisation in song and song preference learning in zebra finches.	Judith Varkevisser, Leiden: Seeing voices: does multimodal exposure to a vocal model enhance vocal learning?	Carmen Bâlon, Liège: Assessing the maternal transfer of mercury in two species of Arctic seals: the harp seal and the hooded seal
14:55 – 15:15	Djai Heyer, VU Amsterdam: Neuronal Correlates of Mental Ability in Human Brain	Michiel Vellema, Utrecht: Adaptive strategy for a periodically returning vocal motor behavior	(no talk)

15:15 – 15:45 Coffee/tea break

15:45 – 16:30 Plenary lecture Boris Konrad (Netherlands): *Memory Champions - The methods and characteristics of memory athletes*;  
Chair Eddy van der Zee – Room Hamburg

16:30 – 16:50 Lecture of the KETS-prize winner Ilke Geladi (Brussels): Galapagos landbirds and agriculture: Assessing the conservation potential for working landscapes in Santa Cruz, Galapagos; Chair: Ellen Decaestecker, Leuven – Room Hamburg

16:50 – 17:15 Closing ceremony, proclamation of awards, and PhD, MSc prize winners; by Ellen Decaestecker, Liesbeth Sterck & Eddy van der Zee – Room Hamburg