



# IBNS 28<sup>th</sup> Annual Meeting

June 23-27, 2019  
Cairns, Queensland, Australia



## Presidential Lecture **Trevor Robbins**

University of Cambridge, Cambridge, England  
*Neural substrates of compulsivity: Neuropsychiatric implications*



## Bench-to-Bedside **Miguel Nicolelis**

Duke University Medical Center, Durham, NC, USA  
*Brain machine interfaces: From basic science to neurological rehabilitation*



## Keynote Speaker **Carol Barnes**

University of Arizona, Tucson, AZ, USA  
*Behavioral consequences of brain aging*



## Keynote Speaker **Gavan McNally**

UNSW, Sydney, NSW, Australia  
*Pathways promoting and preventing relapse*

### Important Dates

December 16, 2018: Travel Award Applications Due  
February 1, 2019: Abstract Submissions Due (Poster/Oral)

### Travel Awards

IBNS sponsors many Travel Awards for student and postdoc candidates so that they may have the opportunity to attend the annual meeting and present their research! Undergraduate, graduate, and postdoctoral students are eligible to apply if they are members of IBNS. Postdocs must be within 7 years of receiving their Ph.D. and do not have a regular, full-time position.

Travel Award applicants will be judged based on criteria specific to their level of training. In addition, travel costs will be taken into consideration in determining the final amount of the award. Travel award recipients will be required to present a poster as well as participate in a slide blitz session. Award recipients are required to attend the entire meeting.

### Special Symposia

*Feeling the emotions of others: From behavior to circuits.* **Chair:** Ewelina Knapska. **Co-Chair:** Francesca Manago. **Speakers:** Peggy Mason, Ewelina Knapska, Andrew Holmes, Francesca Manago.

...more on back!

*The translational potential of cannabinoids: From animal models to the clinic.* **Chair:** Michael Bowen. **Co-Chair:** Sarah Baracz. **Speakers:** Reinaldo Takahashi, Cathrin Rohleder, Iain Mcgregor, Lyndsey Anderson.

*Translational models of human neurodevelopmental and neuropsychiatric disease: Integrating neuroimmunology, neuroendocrinology and behavior.* **Chair:** Melissa Bauman. **Co-Chair:** Debra Bangasser. **Speakers:** Judy Van De Water, Melissa Bauman, Debra Bangasser, Cheryl Conrad.

*The importance of being earnest about sex and stress effects on cognition across the lifespan.* **Chair:** Liisa Galea. **Speakers:** Jared Young, Travis Hodges, Sarah Johnson, Lisa Kalynchuk.

*Animal brains gone wild: Neuroethological explorations of vertebrate nervous systems and adaptive functions.* **Chair:** Kelly Lambert. **Speakers:** Thomas Park, Kelly Lambert, Andrew Iwaniuk, Suzanaerculano-Houzel.

*Mood and motivation - behavioural outcomes from central challenges.* **Chair:** Zane Andrews. **Co-Chair:** Rosemary Brown. **Speakers:** Alon Chen, Stephanie Fulton, Sharon Ladyman, Joon Kim.

*Metabolic signals and adaptive survival behaviours.* **Chair:** Dave Grattan. **Co-Chair:** Sharon Ladyman. **Speakers:** Alfonso Abizaid, Zane Andrews, Yeka Aponte, Sarah Spencer.

*Food for thought: Diet and environmental impacts on behaviour and physiology.* **Chair:** Gretchen Neigh. **Co-Chair:** Ilia Karatsoreos. **Speakers:** Gretchen Neigh, Margaret Morris, Ilia Karatsoreos, Siobhan Banks.

*Stress, neuroimmune signaling and psychiatric disease.* **Chair:** Lisa Briand. **Speakers:** Natalie Tronson, Sara Jane Ward, Lisa Briand, Ryan Bachtell.

*Signaling: A key to the diverse mechanisms of steroid hormone action in the brain.* **Chair:** Shaila Mani. **Speakers:** Paul Micevych, Deepak Srivastava, Shaila Mani, Karl Iremonger.

*Healthy aging of the brain: Mixing old and new ways to improve cognition.* **Chair:** Andrew A. Butler. **Co-Chair:** Susan A. Farr. **Speakers:** Leonie Heilbronn, Andrew Butler, William Banks, Susan Farr.

*Pain, opioids, and the immune response.* **Chair:** Michelle Hook. **Speakers:** Michelle Hook, Peter Grace, Macdonald Christie, Nicholas Veldhuis.

*Early intervention for altered developmental trajectories in psychiatric disorders.* **Chair:** Francesco Papaleo. **Co-Chair:** Cecilia Flores. **Speakers:** Francesco Papaleo, Cecilia Flores, Tertia Purves-Tyson, Tsuyoshi Miyakawa.

*Recent perspectives on action control and decision-making.* **Chair:** Bernard Balleine. **Co-Chair:** Shauna Parkes. **Speakers:** Shauna Parkes, Bernard Balleine, Karly Turner, Andrew Holmes.

*Measuring impact of social interaction across species.* **Chair:** Femke Buisman-Pijlman. **Speakers:** Louk Vanderschuren, Jean-loup Rault, Femke Buisman-Pijlman, Adam Guastella.

*Factors contributing to the escalation of ethanol consumption.* **Chair:** F. Scott Hall. **Speakers:** F. Scott Hall, Christina Barr, Olivier George, Klaus Miczek.

*Neurobiology through lens of diverse models.* **Chair:** Ajai Vyas. **Co-Chair:** Serafino Teseo. **Speakers:** Frederic Libersat, Ajay Sriram Mathuru, Serafino Teseo, Ajai Vyas.

*Mining CNVs: Identification of CNV-encoded individual genes as potential therapeutic targets for neuropsychiatric disorders.* **Chair:** Noboru Hiroi. **Co-Chair:** Craig M. Powell. **Speakers:** Craig M. Powell, Christian Schaaf, Toru Takumi, Noboru Hiroi.

*New insights into basal-ganglia circuitry: Translational relevance for instrumental action and decision-making.* **Chair:** Miriam Matamales. **Co-Chair:** Vincent Laurent. **Speakers:** Christelle Baunez, Vincent Laurent, Miriam Matamales, Irina Baetu.

*Making the right choice: Decision making under conflict.* **Chair:** Elizabeth Manning. **Co-Chair:** Laura Bradfield. **Speakers:** Laura Bradfield, Elizabeth Manning, Susan Sangha, Mihaela Iordanova.

*Elucidation of novel microcircuits regulating aversive memories.* **Chair:** Luke Johnson. **Co-Chair:** Jason Radley. **Speakers:** Valerie Doyre, Jason Radley, Luke Johnson, Sumantra Chattarji.

*From phenotype to pharmacological intervention: Behavioral measures for enabling translational research.* **Chair:** Stacey Sukoff Rizzo. **Co-Chair:** Andre Der-Avakian. **Speakers:** Jill Silverman, Jared Young, Jess Nithianantharajah, Stacey Sukoff Rizzo.

*Tuning in to USVs and social behavior.* **Chair:** John Neumaier. **Co-Chair:** Kevin Coffey. **Speakers:** Kevin Coffey, Catherine Marler, David Euston, Bernhard Englitz.

*Cross species investigation of the neural substrates of decision making.* **Chair:** Kate Wassum. **Speakers:** Laura Bradfield, Kate Wassum, Vincent Costa, Benjamin Hayden.

*Construction and disruption of memory circuits during development.* **Chair:** Tallie Z. Baram. **Co-Chair:** Annabel K. Short. **Speakers:** Gregory L. Holmes, Christine M. Gall, Annabel K. Short, Tallie Z. Baram.

*Prediction error, dopamine and beyond.* **Chair:** Mihaela Iordanova. **Co-Chair:** Laura Corbit. **Speakers:** Geoffrey Schoenbaum, Laura Corbit, Michael McDannald, Mihaela Iordanova.

*Recent advances in the neurobiology of relapse to drug use in addiction.* **Chair:** Taco De Vries. **Speakers:** Yavin Shaham, Selena Bartlett, Nathan Marchant, Asheeta Prasad.

*Electrophysiological neural mechanisms underlying psychiatry-relevant behaviors.* **Chair:** Jared Young. **Co-Chair:** Jess Nithianantharajah. **Speakers:** Joshua Gordon, Steve Siegel, Dhakshin Ramanathan, Andre Der Avakian.

*Linking behavior with images of the tetrapartite synapse of the reward system circuitry.* **Chair:** Sade Spencer. **Co-Chair:** Davide Amato. **Speakers:** Davide Amato, Anna Kruyer, Constanza Garcia-Keller, Sade Spencer.

*Modeling depression effectively in animal work.* **Chair:** Aditya Panta. **Speakers:** Michelle Hook, Liisa Galea, Raquel Chacon Ruiz Martinez, Lyndsey Collins-Praino.

*Personality driven alcohol use and abuse - Distinct mechanisms revealed.* **Chair:** Christian P. Müller. **Co-Chair:** Kasia Radwanska. **Speakers:** Kasia Radwanska, Christian P. Müller, Olivier George, Louk J.M.J. Vanderschuren.

*Genetics and epigenetics of behavioral phenotypes in animal models of stress-related psychopathology.* **Chair:** Jordan Marrocco. **Co-Chair:** Laura Musazzi. **Speakers:** Jordan Marrocco, Maarten Van Den Buuse, Laura Musazzi, Rupshi Mitra.

*NMDA receptors, electrophysiology and behaviour: Implications for schizophrenia.* **Chair:** Nigel Jones. **Co-Chair:** Lauren Harms. **Speakers:** Bitu Moghaddam, Nigel Jones, Lauren Harms, Steven Siegel.