



6th AACCP International Symposium Sleep and Pain from Research to Reality

AACP Australian Chapter - 6th International Symposium
Sydney, Friday March 17th – Sunday March 19th 2017
at The Sydney Harbour Marriott Hotel

Programme for the 6th AACCP International Symposium

SLEEP AND PAIN FROM RESEARCH TO REALITY

DAY 1
7.45-8.15AM REGISTRATION:
Main Lobby

FRIDAY MARCH 17TH,
8.15AM-5.30PM
MAIN AUDITORIUM

8.15-8.30am
Presidents Welcome
ANDREW LEE

8.30-9.30am An overview
of orofacial pain and sleep
interaction
GILLES LAVIGNE

9.30-10.30am Brain Changes in
Pain
CHRIS PECK

10.30-11.00 am Morning Tea

11.00-12noon Looking beyond the
periphery: The role of the brain in
pain
TASHA STANTON

12.00-1.00pm Relevance of
cortical plasticity for orofacial pain
and oral rehabilitation
PETER SVENSSON

1.00-2.00 pm Lunch

2.00- 3.00pm The Toll of knowing
you are sick – the new world of
neuroimmunology
MARK HUTCHINSON

3.00-3.30pm Afternoon Tea

3.30- 4.30pm Sleep and pain in
traumatic brain injury patients
GILLES LAVIGNE

4.30- 5.30pm One mans headache
– another man's TMD pain?
PETER SVENSSON

DAY 2
SATURDAY MARCH 18TH,
8.30AM-5.30PM
MAIN AUDITORIUM

8.30-9.30am Sleep apnea and
Cancer: Illicit Partnerships
DAVID GOZAL

9.30-10.30am Using animal
genetic studies to further our
understanding of human pain and
sleep issues
GREG NEELY

10.30-11.00 am Morning Tea

11.00-12noon Optogenetics
Throwing Light on Pain and Mood
Disorders
HELEN GOOCH

12.00-1.00pm Plasma exosomes
and cognitive dysfunction in
children with OSA
LEILA KHEIRANDISH-GOZAL

1.00-2.00pm Lunch

2.00-3.00 Watch this space

3.00-3.30pm Afternoon Tea

3.30- 4.30pm. The Toll of knowing
you are sick – implications for
pain and how we treat it.
MARK HUTCHINSON

4.30-5.30pm Pediatric Obesity,
OSA, and Metabolic Dysfunction:
A Complicated Menage a Trois
LEILA KHEIRANDISH-GOZAL

DAY 3
SUNDAY MARCH 19TH,
8.00AM-5.30PM
MAIN AUDITORIUM

8.00-9.00am Sleep Apnea and the
Microbiome: More Than Just a
Gut Feeling
DAVID GOZAL

9.00-10.00am OSA Phenotypes
and Treatment response
PETER CISTULLI

10.00- 10.30 am Morning Tea

10.30-11.30 Thinking outside the
box: could venomous animals
provide the next generation of
analgesics?
GLENN KING

11.30-12.30pm An updated
approach to TMD diagnosis and
orofacial pain classification
PETER SVENSSON

12.30- 1.30 pm Lunch

1.30-2.30pm. Panel Discussion:
Sleep and Pain, what is the
future?

2.30- 3.00pm Afternoon Tea

3.00-4.00pm Sleep bruxism:
differential diagnosis, aetiology
and therapies
GILLES LAVIGNE

4.00-5.00pm Watch this space

5.00-5.30pm Conference Close
ANDREW LEE



contact us

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AACP Australian Chapter
March 17th-19th 2017
Sydney



Sleep and Pain From Research to Reality

IN 2009 THE AUSTRALIAN CHAPTER OF AACCP HELD ITS 1ST EVER SYMPOSIUM. THE TITLE WAS SLEEP AND PAIN. IN 2017 WE ARE READY TO REVISIT THE TOPIC. WE WILL COVER NOT ONLY DEVELOPMENTS THAT HAVE OCCURRED SINCE OUR 1ST SYMPOSIUM, BUT WE WILL LOOK TO THE FUTURE BY BRINGING YOU SOME OF THE WORLDS LEADING RESEARCHERS AND CLINICIANS TO DISCUSS WHERE THEY THINK THEIR RESEARCH AND THE FIELD IS TAKING US IN THE FUTURE. HERE IS A TASTE OF WHAT WE HAVE IN STORE FOR YOU IN 2017.

DAVID GOZAL

- Sleep and Cancer
- Sleep and the microbiome

GILLES LAVIGNE

- An overview of Sleep and Pain
- Sleep and pain in traumatic brain injury patients
- Sleep Bruxism

GLENN KING

- Venomous animals and analgesics

LEILA KHEIRANDISH-GOZAL

- Sleep and plasma exosomes.
- OSA and paediatric obesity and Metabolic dysfunction

PETER SVENSSON

- Cortical plasticity and orofacial pain and rehabilitation
- One man's headache-another man's TMD pain?

TASHA STANTON

- The role of the brain in pain.

MARK HUTCHINSON

- The Toll of knowing you are sick – the new world of neuroimmunology
- The Toll of knowing you are sick – implications for pain and how we treat it

GREG NEELY

- How animal studies inform human sleep and pain.

CHRIS PECK

- Brain changes in pain.

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Sleep and Pain from Research to Reality



DAVID GOZAL, MD, MBA

Dr. Gozal is currently the Herbert T. Abelson Professor at the University of Chicago, where he also holds the title of Pritzker Scholar. He received his M.D. from the Hebrew University of Jerusalem, completed his pediatric residency at the Haifa Medical Center in Israel, and then spent 2 years in Cameroon, West Africa, developing rural healthcare networks, for which he received the title of "Knight of the Order of Merit". He then completed his pediatric pulmonology and sleep medicine training at Childrens Hospital Los Angeles in 1993.

Dr Gozal's research interests emphasize bench to bedside approaches to pediatric sleep disorders, with projects encompassing a wide range of interests, such as gene and cellular regulation in hypoxia and sleep disruption, murine models of sleep disorders, and genomic and proteomic approaches to clinical and epidemiological aspects of sleep in children, including collaborative work in several countries around the world. David will become President of the American Thoracic Society in May of 2016, and was awarded the William C. Dement Academic Achievement Award by the American Academy of Sleep Medicine in 2013 and the 2016 Lifetime Achievement Award of the National Sleep Foundation.

GREGORY NEELY

Greg is the Head of Functional Genomics, Neuroscience Division at the Garvan Institute of Medical Research, and a NHMRC CDF Fellow, and Associate Professor at the University of Sydney

At the Garvan Institute Greg employs a functional genomics approach, complemented with bioinformatics analysis, to find and characterize novel conserved genes participating in human diseases. He has a primary focus on the conserved genomics of chronic pain perception. More recently he has initiated similar projects targeting lifespan extension, or preventing neurological diseases that increase with age including age-related dementia, Alzheimer's disease, Parkinson's disease and ALS. His work has helped to identify and validate novel human disease genes and discover new potential therapies. Greg is 1 of 7 board of governors for the pain genetics SAG of the International Association for the Study of Pain the major international organization devoted to pain

research, and acts as an external reviewer for multiple journals (Neuron, Pain, Journal of Immunology, Nature Methods, Current Biology etc.) and granting agencies, and is an invited member of the Australian federal NHMRC assigners academy and the CIHR panel on High Fatality Cancers.

HELEN GOOCH

Helen is currently a Postdoctoral Research Fellow in the Department of Developmental Neurobiology and the Department of Synaptic Plasticity, The Queensland Brain Institute at the University of Queensland. Helen graduated from Queensland University with a Bachelor of Science majoring in neuro and biomedical science in 2007. She completed her honours in 2008 winning 1st prize for her thesis from the Australian National University. She completed the Australian Course in Advanced Neuroscience in 2009 and her Ph.D at UQ in the Synaptic Plasticity Lab in 2013. He has published numerous journal articles, and has been the recipient of several awards and distinctions. Helen's current Post Doctoral research uses optogenetics to investigate neural pathways in the amygdala.

TASHA STANTON

Dr Tasha Stanton is a Senior Research Fellow at The University of South Australia, Adelaide and Neuroscience Research Australia, Sydney. Dr Stanton currently holds an NHRMC Early Career Fellowship (2014-2018). She has received >\$1.7m in competitive research funding and has been a keynote/invited speaker at 20 national and international conferences. Her research focusses on clinical pain neuroscience, with a specific interest in cortical body representation, somatosensation, multi-modal illusions, and pain. In February 2016 Dr Stanton was announced as the Ronald Dubner Research Prize Winner for 2016. This award has honoured the best clinical or basic science research paper, series of papers, or doctoral thesis in the field of pain.

GILLES LAVIGNE

Professor Gilles Lavigne DMD(University of Gilles Lavigne, DMD (U de Montreal, Canada), PhD (U of Toronto, Canada), and FRCD (Oral medicine, Georgetown U, USA), postdoctoral training on the neurobiology of pain at NIH, Bethesda, USA.

Gilles received a Doctor honoris causa from the University of Zurich, Switzerland. He holds a Canada Research Chair in Pain, Sleep & Trauma.

Gilles was Dean of the Faculty of Dental Medicine at the Université de Montréal, Canada (2008-2016). He was President of the Canadian Sleep Society and President of the Canadian Pain Society (2014-2016). He is co-founder and past Director of the three research networks for Oral Health, Pain and Placebo Mechanisms under the Fonds de la Recherche en Santé du Québec and the Canadian Institutes of Health Research (CIHR).

He is internationally recognized for his experimental and clinical research projects on sleep bruxism and the interactions between sleep, pain, and breathing disorders. He is a Researcher at the Pain and Sleep Laboratory, Trauma axis, Surgery department, Hôpital du Sacré-Cœur de Montréal. Current studies include 1) the role of sleep in placebo analgesia and pain relief expectations in emergency medicine, 2) the influence of opioids on sleep airway function and addiction, and 3) sleep and pain interactions in traumatic brain injury patients.

PETER CISTULLI

Peter Cistulli is the ResMed Chair in Sleep Medicine at the University of Sydney. He is an active clinician researcher with 25 years experience in respiratory and sleep medicine and is head of the Centre for Sleep Health & Research in the Department of Respiratory and Sleep Medicine at Royal North Shore Hospital. His research has focussed on the pathophysiology of Obstructive Sleep Apnea and novel therapeutic approaches. This work has been predominantly funded by the NHMRC of Australia. He has an extensive publication record, and has received international awards for his academic contributions to the sleep field. He is a former President of the Australasian Sleep Association. He currently serves on the board of directors of the Sleep Health Foundation (Australia), whose mission is to raise community and government awareness of the negative impact of untreated sleep disorders and poor sleep practices on health, safety, productivity and quality of life.

LEILA KHEIRANDISH-GOZAL

Leila is the Professor Director of Clinical Sleep Research Section of Pediatric Sleep Medicine Department of Pediatrics, The University of Chicago. She has a Bachelor Degree in Arabic Literature with Honors, from the Foreign Language Institute, Damascus, Syria, and attended Medical School at the University of Damascus, Syria, where she was awarded Doctor of Medicine. She holds a Master of Science in Epidemiology and Clinical Investigation Sciences, from the School of Public Health, the University of Louisville, KY, and Professional Certification in Translational Medicine from the European Society for Translational Medicine. In 2014 she became Professor of Pediatrics and Director of Clinical Sleep Research, Section of Pediatric Sleep Medicine, Department of Pediatrics, University of Chicago., Department of Pediatrics, University of Chicago, IL.

PETER SVENSSON

Peter was born in Aalborg 1963. He graduated from the School of Dentistry, University of Aarhus 1987 (DDS), and earned his Ph.D. degree in 1993 and Doctor of Odontology in 2000 at University of Aarhus. He had a Post-doc stay at the University of Michigan from 1995-1996, and was a visiting scientist University of Adelaide 2000, a visiting professor University of British Columbia 2007, visiting professor University of Sydney 2009, Professor and chairman of Department of Clinical Oral Physiology 2001. He was appointed clinical consultant at the Department of Oral Maxillofacial Surgery, Aarhus University Hospital in 2002 and consultant at the Danish Headache Center, University of Copenhagen in 2005. He was appointed honorary adjunct professor at Aalborg University from 2005-2010, Adjunct professor at the Center for Functionally Integrative Neuroscience 2009-2013 and visiting professor and honorary director of Sino-Denmark Orofacial Pain and TMD Research Center at Nanjing Medical University 2011-2017. He was Knighted by Queen Ridder af Dannebrog 2011.Honorary doctor (odont.Dr.h.c) Malmö University 2013. Appointed guest professor Department of Dental Medicine, Karolinska Institutet (2014-2017).

Peter's research has focused on orofacial pain mechanisms, trigeminal physiology, brain imaging and temporomandibular disorders. He was awarded the Codan Young Investigator Research Prize in 1995, the Strathmann Research Award in 1998 and the Zendium-Hoogendoorn Award in 2000, Bagger-Soerensen Grant 2004, and Ingeborg and Leo Dannin Award 2012. In 2014 he was presented the prestigious Bagger-Soerensen Senior Research Prize and the IADR Neuroscience

Senior Investigator Research Award 2015.

He is an editorial board member and reviewer for several international dental and neuroscience journals including Pain and the Journal of Orofacial Pain. He is Editor-in-Chief of Journal of Oral Rehabilitation (2004-present) and Co-editor of the Textbook on Clinical Oral Physiology, Quintessence 2004. Guest editor Cephalgia in a special issue on Facial Pain (2016). He has supervised many Ph.D projects, and is Past-president of the Special Interest Group on Orofacial Pain, International Association for the Study of Pain (IASP) (2008-2010), President of the International Consortium of Research Diagnostic Criteria for Temporomandibular Disorders (RDC/TMD), and the International Association for Dental Research (IADR) (2010-2012). Member of IASP classification task force (2014-2018).

CHRIS PECK

Professor Chris Peck is Dean of the Faculty of Dentistry, the University of Sydney and President of the Australian and New Zealand Academy of Orofacial Pain. Professor Peck manages complex orofacial pain and disorder patients and conducts research on biomechanical aspects of jaw function, evidence-based diagnosis and management of orofacial pain, and biopsychosocial contributors to pain perception and jaw dysfunction. A strong advocate for multidisciplinary patient management, he is internationally renowned for his leadership and contributions to translational research in orofacial pain and leading the clinical arm of projects involving researchers from biomedicine to mathematics. He is a senior facial pain expert in the NSW public health care system at the Royal North Shore Hospital's Pain Management Research Institute, involved in patient care, clinical supervision and research. Professor Peck is President-elect of the International Research Diagnostic Criteria for Temporomandibular Disorders Consortium Network, which develops reliable and valid diagnostic criteria for facial pain complaints. Other clinical pain research groups have emulated this consortium model. Additionally, he chaired an expert International Working Group to expand the taxonomy of temporomandibular disorders (Journal of Oral Rehabilitation 2014).

GLENN KING

Glenn did his PhD at the University of Sydney before postdoctoral studies at the University of Oxford. After academic stints at the University of Sydney and the University of Connecticut Health Center, he joined the Institute for Molecular Bioscience at The University of Queensland in 2007, where he is currently a NHMRC Principal

Research Fellow. The focus of Glenn's research is venoms-based drug discovery, in particular the development of novel analgesics based on venom peptides that modulate the activity of either ligand- or voltage-gated ion channels in sensory neurons. Several molecules discovered in his lab have progressed to preclinical studies. Glenn has published over 200 journal articles and book chapters. He currently serves on the Scientific Advisory Board of three companies and the Editorial Board of four journals. Recent awards include the Sir Bob Robertson Award from the Australian Society for Biophysics (2013), the Beckman Coulter Discovery Science Award from the Australian Society for Biochemistry & Molecular Biology (2013), and the ANZMAG Medal from the Australian & New Zealand Society for Magnetic Resonance (2015).

MARK HUTCHINSON

Professor Hutchinson is an ARC Australian Research Fellow and is the Director of the ARC Centre of Excellence for Nanoscale BioPhotonics (CNBP). He is also a Professor within the School of Medicine at the University of Adelaide.

Professor Hutchinson returned to the University of Adelaide in 2009 as an NHMRC CJ Martin Research Fellow, and established the Neuroimmunopharmacology research laboratory. From 2005 to 2009 Mark worked in the world leading laboratory of Prof Linda Watkins in the Center for Neuroscience at the University of Colorado at Boulder. Here he pioneered with Prof Watkins the research which has led to the discovery of novel drug activity at innate immune receptors.

Mark's research has implicated the brain immune-like cells in the action of drugs of dependence and the negative side effects of pain treatments. His work has enabled the translation of compounds at the lab bench to clinical agents used at the bedside. Mark has published over 100 papers in journals and refereed conference proceedings.

He has now added Director of the CNBP to his roles. The CNBP is an ARC Centre of Excellence with \$40M of funding committed for 7 years, headquartered at The University of Adelaide, with nodes at Macquarie University, Sydney and the RMIT, Melbourne. We are partnered with universities and companies in Europe, the US and China, as well as other Australian institutions.

The CNBP has a mission to "Discover new approaches to measure nano-scale dynamic phenomena in living systems".