



# Worldsleep2011

## Program

<b>Pr</b>	<b>Presidential Lecture</b>	94
<b>OL</b>	<b>Opening Lecture</b>	94
<b>PL</b>	<b>Plenary Lecture</b>	94
<b>PS</b>	<b>Plenary Symposium</b>	98
<b>EL</b>	<b>Educational Lecture</b>	107
<b>ES</b>	<b>Educational Symposium</b>	109
<b>IS</b>	<b>Industrial Symposium</b>	112
<b>AS</b>	<b>Abstract Symposium</b>	117
<b>LS</b>	<b>Luncheon Seminar</b>	139
<b>PO</b>	<b>Poster Presentation</b>	143

## Pr-1 Presidential Lecture 1

October 17 (Mon.)

18:00-19:00

Main Hall

*Chairperson:*

**Allan I. Pack**

Medicine/Sleep Division, University of Pennsylvania, USA

Pr-1-1

### SLEEP, HEALTH and SOCIETY

**Ronald R. Grunstein**

Sleep, Sydney University/RPA Hospital, Australia

## Pr-2 Presidential Lecture 2

October 19 (Wed.)

18:00-19:00

Main Hall

*Chairperson:*

**Anna Wirz-Justice**

Centre for Chronobiology, Psychiatric University Clinics, Switzerland

Pr-2-1

### New Horizons of Sleep Research for Our Planet -Sleep and Chronobiology-

**Masako Okawa**

Sleep Medicine, Shiga University of Medical Science, Japan

## OL-1 Opening Lecture 1

October 16 (Sun.)

18:00-18:30

Main Hall

*Chairperson:*

**Masako Okawa**

Chair of Local Organizing Committee, Japan /  
Sleep Medicine, Shiga University of Medical Science, Japan

OL-1

### Evolution of life history strategy in human and non-human primates

**Juichi Yamagiwa**

Dean, Graduate School and Faculty of Science, Kyoto University / President, International Primatological Society, Japan

## PL-1 Plenary Lecture 1

October 17 (Mon.)

9:00-10:00

Main Hall

*Chairperson:*

**Eus JW van Someren**

Sleep & Cognition, Netherlands Institute for Neuroscience, Netherlands

PL-1-1

### Neuroimaging study on brain pathophysiology of sleep disorders

**Seung Bong Hong**

Department of Neurology, Samsung Medical Center, Sungkyunkwan University, Korea

## PL-2 Plenary Lecture 2

October 17 (Mon.)

9:00-10:00

Room A

*Chairperson:*

**Derk-Jan Dijk**

Surrey Sleep Research Centre, University of Surrey, UK

PL-2-1

### Sleep disturbances, obesity and diabetes: Interacting epidemics

**Eve Van Cauter**

Department of Medicine, University of Chicago, USA

## PL-3 Plenary Lecture 3

October 17 (Mon.)

15:00-16:00

Main Hall

*Chairperson:*

**Tsuneto Akashiba**

Sleep and Respiratory Medicine, Nihon University, Japan

PL-3-1

### Phenotyping in the Pathogenesis of Obstructive Sleep Apnea: Implications for Future Therapies

**David P. White**

Sleep Medicine/ Medicine, Harvard Medical School, Brigham and Women's Hospital, USA

## PL-4 Plenary Lecture 4

October 17 (Mon.)

15:00-16:00

Room A

*Chairperson:*

**Jun Kohyama**

Pediatrics, Tokyo Bay Urayasu/Ichikawa Medical Center, Japan

PL-4-1

### The adaptive function of sleep

**Jerome Siegel**

UCLA Brain Reserch Institute, USA

## PL-5 Plenary Lecture 5

October 17 (Mon.)

15:00-16:00

Room B-1

*Chairperson:*

**Judith Owens**

Division of Pulmonology and Sleep Medicine, Children's National Medical Center, USA

PL-5-1

### Unanswered Questions about Adolescent Sleep

**Mary A. Carskadon**

Department of Psychiatry & Human Behavior, Brown University, USA

## PL-6 Plenary Lecture 6

October 18 (Tue.)

9:00-10:00

Main Hall

*Chairperson:*

**Carlos H. Schenck**

Minnesota Regional Sleep Disorders Center, University of Minnesota Medical School, Dept. of Psychiatry, USA

PL-6-1

### RBD research in Japan: past, present and future

Tetsuo Shimizu

Department of Neuropsychiatry, Akita University Graduate School of Medicine, Japan

## PL-7 Plenary Lecture 7

October 18 (Tue.)

9:00-10:00

Room A

*Chairperson:*

**Masako Okawa**

Sleep Medicine, Shiga University of Medical Science, Japan

PL-7-1

### Sleep, fatigue and circadian rhythms in cancer

Sonia Ancoli-Israel

Department of Psychiatry, University of California San Diego, USA

## PL-8 Plenary Lecture 8

October 19 (Wed.)

9:00-10:00

Main Hall

*Chairperson:*

**Kazuo Chin**

Department of Respiratory Care and Sleep Control Medicine, Graduate School of Medicine, Kyoto University, Japan

PL-8-1

### Obstructive sleep apnea and atherosclerosis - exploring the links

Mary SM. Ip

Department of Medicine, University of Hong Kong, China

## PL-9 Plenary Lecture 9

October 19 (Wed.)

9:00-10:00

Room A

*Chairperson:*

**Till Roenneberg**

Institute for Medical Psychology, Ludwig-Maximilians-University Munich, Germany

PL-9-1

### Circadian Clock and Sleep-Wake Cycle

Ken-ichi Honma

Department of Physiology, Graduate School of Medicine, Hokkaido University, Japan

## PL-10 Plenary Lecture 10

October 19 (Wed.)

15:00-16:00

Main Hall

*Chairperson:*

**Seung Bong Hong**

Department of Neurology, Samsung Medical Center, Sungkyunkwan University, Korea

PL-10-1

**Sleep and Stroke**

**Claudio F. Bassetti**

Neurology, Neurocentro della Svizzera Italiana, Ospedale Civico, Switzerland

## PL-11 Plenary Lecture 11

October 19 (Wed.)

15:00-16:00

Room A

*Chairperson:*

**Kazuo Mishima**

Department of Psychophysiology, National Institute of Mental Health, National Center for Neurology & Psychiatry, Japan

PL-11-1

**Alarm clocks are more costly than we think**

**Till Roenneberg**

Institute for Medical Psychology, Ludwig-Maximilians-University Munich, Germany

## PL-12 Plenary Lecture 12

October 20 (Thu.)

9:00-10:00

Main Hall

*Chairperson:*

**Eve Van Cauter**

University of Chicago, USA

PL-12-1

**From the Clinic to the Laboratory and Back Again: New Insights on Insomnia**

**Daniel J. Buysse**

Department of Psychiatry, University of Pittsburgh, USA

## PL-13 Plenary Lecture 13

October 20 (Thu.)

9:00-10:00

Room A

*Chairperson:*

**Sato Honma**

Department of Physiology, Hokkaido University Graduate School of Medicine, Japan

PL-13-1

**Brain circuitry for circadian regulation of sleep**

**Clifford B. Saper**

Dept of Neurology, Beth Israel Deaconess Med Ctr/ Harvard Med School, USA

## PS-1 Plenary Symposium 1

October 16 (Sun.)

15:00-17:00

Main Hall

Future Direction of Global Sleep Medicine in collaboration with World Sleep Federation (WSF), the Japanese Society of Sleep Research (JSSR), and World Health Organization (WHO)

*Organizers:*

**Masako Okawa**

Sleep Medicine, Shiga University of Medical Science, Japan

**Tetsuo Shimizu**

Department of Neuropsychiatry, Akita University Graduate School of Medicine, Japan

**Yuriko Doi**

National Institute of Public Health, Japan

*Chairpersons:*

**Ronald R. Grunstein**

President of World Sleep Federation, Australia

**Kiyohisa Takahashi**

National Center of Neurology and Psychiatry, Japan

**PS-1-1**

### Sleep, health, and society: an overview

Ronald R. Grunstein

Sleep and Circadian Group, Woolcock Institute and CIRUS, University of Sydney, Australia

President, World Sleep Federation (WSF), Australia

**PS-1-2**

### Sleep and Mental Health: What We Know and Still Need to Know

Daniel J. Buysse

Department of Psychiatry, University of Pittsburgh, USA

**PS-1-3**

### Public Health Policy and Services for Sleep and Health

Hideo Shinozaki

National Institute of Public Health, Japan

**PS-1-4**

### Scaling up Identification and Management of Mental Disorders; the Importance of Sleep disorders

Shekhar Saxena

Department of Mental Health and Substance Abuse, World Health Organization (WHO), Switzerland

## PS-2 Plenary Symposium 2

October 17 (Mon.)

10:00-12:00

Main Hall

Cross-cultural differences in sleep and sleep disturbances in young children

*Organizers / Chairpersons:*

**Daniel Goh**

Department of Paediatrics, National University of Singapore, Singapore

**Jodi A. Mindell**

Sleep Center, Children's Hospital of Philadelphia/Saint Joseph's University, USA

**PS-2-1**

### Sleep in young children in Oceania and Asia

Daniel Y. T. Goh

Department of Paediatrics, National University of Singapore, Singapore

**PS-2-2**

### Sleep in young children in the USA and around the world

Jodi A. Mindell

Sleep Center, Children's Hospital of Philadelphia/Saint Joseph's University, USA

PS-2-3

**Cross-cultural differences in sleep and sleep disturbances in young children. Sleep in Young Children in South America**

Rosana S. Alves  
Neurology, University of Sao Paulo, Brazil

PS-2-4

**Sleep in young children in Europe**

Patricia Franco  
University of Lyon 1, France

**PS-3 Plenary Symposium 3**

October 17 (Mon.)

10:00-12:00

Room A

**Sleep in Women: gender differences in sleep-wake control**

*Organizers / Chairpersons:*

**Tarja Porkka-Heiskanen**

Biomedicine, University of Helsinki, Finland

**Mayumi Kimura**

Neurogenetics of Sleep, Max Planck Institute of Psychiatry, Germany

PS-3-1

**Mechanisms Underlying Ovarian Hormone Modulation of Sleep: what rodent studies tell us about the implications on women's health**

Jessica A. Mong  
Department of Pharmacology, University of Maryland, School of Medicine, USA

PS-3-2

**Modulation of sleep and response to sleep loss by ovarian hormones in rats**

Kazue Semba  
Department of Anatomy & Neurobiology, Dalhousie University, Canada

PS-3-3

**Sex differences and menstrual-related effects on sleep**

Fiona C. Baker  
Center for Health Sciences, SRI International, USA

PS-3-4

**Age- and Sex-related Differences in Slow-Wave Activity in Healthy and Depressed Children and Adolescents**

Roseanne Armitage  
Department of Psychiatry, Sleep & Chronophysiology Laboratory, University of Michigan, USA

PS-3-5

**Gender differences in human peptidergic sleep regulation**

Axel Steiger  
Department of Psychiatry, Max Planck Institute of Psychiatry, Germany

## PS-4 Plenary Symposium 4

October 17 (Mon.)

16:00-18:00

Main Hall

### The Burden of Sleep-Disordered Breathing Across the Globe

*Organizers / Chairpersons:*

**Naresh M. Punjabi**  
**Tsuneto Akashiba**

Division of Pulmonary and Critical Care Medicine, Johns Hopkins University, USA  
Sleep and Respiratory Medicine, Nihon University, Japan

PS-4-1

#### The Sleep Heart Health Study: A Look Back at Lessons Learned

Naresh M. Punjabi

Division of Pulmonary and Critical Care Medicine, Johns Hopkins University, USA

PS-4-2

#### Public Health Implications of the Busselton Health Study

Nathaniel S. Marshall

Sleep Research Group, Woolcock Institute, University of Sydney, Australia

PS-4-3

#### Hypertension and atherosclerosis in sleep apnea

Geraldo Lorenzi-Filho

Pulmonary Division, University of São Paulo, Brasil

PS-4-4

#### Metabolic syndrome, Hypertension, Diabetes Mellitus and sleep apnea in Japan

Kazuo Chin

Department of Respiratory Care and Sleep Control Medicine, Graduate School of Medicine, Kyoto University, Japan

## PS-5 Plenary Symposium 5

October 17 (Mon.)

16:00-18:00

Room A

### Integrative understandings between basic and clinical findings of sleep dependent learning

*Organizers / Chairpersons:*

**Yuka Sasaki**

Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, USA

**Kenichi Kuriyama**

Department of Adult mental Health, National Institute of Mental Health, NCNP, Japan

PS-5-1

#### Cortical activation changes during sleep for visual perceptual learning

Yuka Sasaki

Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, USA

PS-5-2

#### Memory processing during sleep: Implications for healthy and dysfunctional memory

Ken A. Paller

Department of Psychology, Northwestern University, USA

PS-5-3

#### Shift in the neural network associated with declarative memory consolidation

Atsuko Takashima

Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Netherlands



PS-5-4

## Cognitive Processes and Memory Consolidation in Sleep and Sleep-related Disorders

Philippe Peigneux

Neuropsychology and Functional Neuroimaging Research Unit, Universit Libre de Bruxelles, Belgium

## PS-6 Plenary Symposium 6

October 17 (Mon.)

16:00-18:00 Room B-1

### Sleep in neurodevelopmental disabilities

*Organizers / Chairpersons:*

**Judith A. Owens**

Division of Pulmonology and Sleep Medicine, Children's National Medical Center, USA

**Jun Kohyama**

Pediatrics, Tokyo Bay Urayasu/Ichikawa Medical Center

PS-6-1

### Sleep In Children with Autism Spectrum Disorders

Judith Owens

Division of Pulmonology and Sleep Medicine, Children's National Medical Center, USA

PS-6-2

### Sleep in Children with Attention Deficit Hyperactivity Disorder

Judith Owens

Division of Pulmonology and Sleep Medicine, Children's National Medical Center, USA

PS-6-3

### Behavioral Interventions in Children with Neurodevelopmental Disabilities

Jodi A. Mindell

Sleep Center, Children's Hospital of Philadelphia/Saint Joseph's University, USA

PS-6-4

### Polysomnography in Children with Neurodevelopmental Disorders

Manisha Witmans

Pediatric Respiratory, University of Alberta Stollery Childrens Hospital, Canada

## PS-7 Plenary Symposium 7

October 18 (Tue.)

10:00-12:00 Main Hall

### Update on RBD

*Organizers / Chairpersons:*

**Jacques Montplaisir**

Centre d'Etude du Sommeil, Hôpital du Sacre-Coeur de Montreal, Canada

**Yuichi Inoue**

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

PS-7-1

### RBD: Update on Recent Studies and New Developments

Carlos H. Schenck

Minnesota Regional Sleep Disorders Center, University of Minnesota Medical School, Dept. of Psychiatry, USA

PS-7-2

### Combination neuroimaging markers provide clues to the underlying neurodegenerative disorder in idiopathic REM sleep behavior disorder

Tomoyuki Miyamoto

Department of Neurology, Dokkyo Medical University, Japan

PS-7-3

**Significance of REM sleep behavior disorders in synucleinopathies such as Parkinson disease**

Takashi Nomura

Department of Neurology, Tottori University, Japan

PS-7-4

**RBD - preclinical PD, LBD, or both?**

Ronald B. Postuma

Department of Neurology, McGill University, Canada

**PS-8 Plenary Symposium 8**

October 18 (Tue.)

10:00-12:00

Room A

**Japanese Society for Chronobiology (JSC) Joint Symposium**

*Organizers / Chairpersons:*

**Ken-ichi Honma**

Department of Physiology, Graduate School of Medicine, Hokkaido University, Japan

**Shizufumi Ebihara**

School of Bioagricultural Sciences, Nagoya University, Japan

PS-8-1

**Circadian and sleep disruption in mental health: humans to mouse models**

Russel Foster

Nuffield Laboratory of Ophthalmology, University of Oxford, UK

PS-8-2

**Light-induced impairment of mood and learning requires melanopsin-expressing ganglion cells**

Samer Hattar

Biology, Johns Hopkins University, USA

PS-8-3

**Rhythm and the blues**

Toru Takumi

Graduate School of Biomedical Sciences, Hiroshima University, Japan

PS-8-4

**Deubiquitination and behavior**

Shizufumi Ebihara

School of Bioagricultural Sciences, Nagoya University, Japan

## PS-9 Plenary Symposium 9

October 19 (Wed.)

10:00-12:00

Main Hall

### Yutaka Honda Memorial Symposium

*Organizers / Chairpersons:*

**Yuichi Inoue**  
**Makoto Honda**

Japan Somnology Center, Neuropsychiatric Research Institute, Japan  
Psychiatry and Behavioral Sciences, Sleep Research Project, Tokyo Metropolitan  
Institute of Medical Science, Japan

PS-9-1

#### Morphological and functional neuroimaging of human narcolepsy

Claudio F. Bassetti

Neurology, Neurocentro della Svizzera Italiana, Ospedale Civico, Switzerland

PS-9-2

#### Deciphering the Genetic Predisposition to Human Narcolepsy

Katsushi Tokunaga

Department of Human Genetics, University of Tokyo, Graduate School of Medicine, Japan

PS-9-3

#### Movement disorders in Narcolepsy

Yves A. Dauvilliers

Department of Neurology, Gui de Chauliac Hospital, Montpellier University, France

PS-9-4

#### Spectrum concept of narcolepsy and its clinical significance

Yuichi Inoue

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

PS-9-5

#### Work of Dr. Yutaka Honda on narcolepsy and its subsequent development

Makoto Honda

Psychiatry and Behavioral Sciences, Sleep Research Project, Tokyo Metropolitan Institute of Medical  
Science, Japan

## PS-10 Plenary Symposium 10

October 19 (Wed.)

10:00-12:00

Room A

### Chronotherapy (sleep deprivation, light therapy, sleep-wake phase modulation) for depression

*Organizers / Chairpersons:*

**Anna Wirz-Justice**  
**Tetsuo Shimizu**

Centre for Chronobiology, Psychiatric University Clinics, Switzerland  
Department of Neuropsychiatry, Akita University Graduate School of Medicine, Japan

PS-10-1

#### Combined chronotherapy in drug-resistant depression

Masaru Echizenya

Department of Neuropsychiatry, Bioregulatory Medicine, Akita University Graduate School of Medicine,  
Japan

PS-10-2

## **RAPID AND SUSTAINED ANTIDEPRESSANT RESPONSE WITH SLEEP DEPRIVATION AND CHRONOTHERAPY IN BIPOLAR DISORDER**

Joseph C. Wu

Psychiatry, University of California Irvine College of Medicine, USA

PS-10-3

## **Neuroimaging and genetics of sleep deprivation in depression: from monoamines and glutamate to neuroplasticity**

Francesco Benedetti

Department of Clinical Neurosciences, Scientific Institute and University Vita-Salute San Raffaele, Milano, Italy

## **PS-11 Plenary Symposium 11**

October 19 (Wed.)

16:00-18:00

Main Hall

### **Regulation of muscular tonus during REM sleep -implications of the hypothalamus, brainstem and spinal cord-**

*Organizers / Chairpersons:*

**Yoshimasa Koyama**

Department of Science and Technology, Fukushima University, Japan

**Yuan Yang Lai**

Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, USA

PS-11-1

### **Brainstem and spinal cord neural circuitry of REM sleep and atonia**

Jun Lu

Department of Neurology, Beth Israel Deaconess Medical Center and Harvard Medical School, USA

PS-11-2

### **Common grounds and difficult to reconcile differences between the disfacilitation and active inhibition concepts of the atonia of REM sleep**

Leszek Kubin

Department of Animal Biology, University of Pennsylvania, USA

PS-11-3

### **Pontomedullary regulation of REM sleep atonia**

Yuan-Yang Lai

Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, USA

PS-11-4

### **Atonia mediating mechanisms from the forebrain structures to spinal cord**

Kaoru Takakusaki

Research Center for Brain Function and Medical Engineering, Asahikawa Medical University, Japan

## PS-12 Plenary Symposium 12

October 19 (Wed.)

16:00-18:00

Room A

**Genetic and physiological phenotyping of human clock system and its psycho-sociological impact on modern human society**

*Organizers / Chairpersons:*

**Kazuo Mishima**

Department of Psychophysiology, National Institute of Mental Health, National Center for Neurology & Psychiatry, Japan

**Diane B. Boivin**

Faculty of Medicine/Psychiatry, McGill University, Canada

**PS-12-1**

**How individual genetic differences affect daily behavior**

Steven A. Brown

Institute of Pharmacology and Toxicology, University of Zurich, Switzerland

**PS-12-2**

**Potential therapeutic and diagnostic targets for circadian rhythm sleep disorders**

Shigenobu Shibata

School of Advanced Science and Engineering, Waseda University, Japan

**PS-12-3**

**Circadian and homeostatic evaluation of sleep-wake disturbances in humans**

Derk-Jan Dijk

Surrey Sleep Research Centre, University of Surrey, UK

**PS-12-4**

**Genetic and physiologic phenotyping of circadian rhythm sleep disorders**

Akiko Hida

Department of Psychophysiology, National Institute of Mental Health, National Center of Neurology and Psychiatry, Japan

**PS-12-5**

**Social application of human sleep and circadian phenotyping for shift workers**

Diane B. Boivin

Faculty of Medicine/Psychiatry, McGill University, Canada

## PS-13 Plenary Symposium 13

October 20 (Thu.)

10:00-12:00

Main Hall

**Impact of insomnia on human life**

*Organizers / Chairpersons:*

**Makoto Uchiyama**

Department of Psychiatry, Nihon University School of Medicine, Japan

**Damien Léger**

Centre du Sommeil et de la Vigilance de l'Hôtel Dieu de Paris, Université Paris Descartes. APHP, France

**PS-13-1**

**Turning around daytime impact of insomnia in the daily life of patients**

Damien Léger

Centre du Sommeil et de la Vigilance de l'Hôtel Dieu de Paris, Université Paris Descartes. APHP, France

PS-13-2

### Longitudinal outcome of insomnia - psychiatric & medical consequences

Yun Kwok Wing

Psychiatry, The Chinese University of Hong Kong, China

PS-13-3

### Sleep problems and suicide

Xianchen Liu

School of Public Health, Shandong University, China / Department of Psychiatry, Indiana University, USA

PS-13-4

### Natural History of Insomnia: Factors Moderating the Course of Insomnia over Time

Charles M. Morin

Psychology, Laval University, Canada

PS-13-5

### Life style and genesis of insomnia

Michiko Konno

Department of Psychiatry, Nihon University School of Medicine, Japan

Makoto Uchiyama

Department of Psychiatry, Nihon University School of Medicine, Japan

## PS-14 Plenary Symposium 14

October 20 (Thu.)

10:00-12:00

Room A

### Seasonality in sleep and circadian rhythms

*Organizers / Chairpersons:*

**Sato Honma**

Department of Physiology, Hokkaido University Graduate School of Medicine, Japan

**Douglas G. McMahon**

Department of Biological Sciences, Vanderbilt University, USA

PS-14-1

### How animal knows the daylength

Takashi Yoshimura

Graduate School of Bioagricultural Sciences, Nagoya University, Japan

PS-14-2

### Mammalian circadian clocks detecting morning light and evening lights

Sato Honma

Department of Physiology, Hokkaido University Graduate School of Medicine, Japan

PS-14-3

### Nature and Nurture in the Seasonality of Circadian Rhythms

Douglas G. McMahon

Department of Biological Sciences, Vanderbilt University, USA

PS-14-4

### Seasonality in human sleep and mood in health and disease

Anna Wirz-Justice

Centre for Chronobiology, Psychiatric University Clinics, Switzerland

## PS-15 Plenary Symposium 15

October 20 (Thu.)

14:00-16:00

Main Hall

### The neural circuit of orexin: regulation of sleep and wakefulness

*Organizer / Chairperson:*

**Takeshi Sakurai**

Faculty of Medicine, Kanazawa University, Japan

PS-15-1

#### Discovery and history of orexin

Takeshi Sakurai

Faculty of Medicine, Kanazawa University, Japan

PS-15-2

#### Afferent and Efferent Control of the Orexin System

Thomas E. Scammell

Department of Neurology, Harvard Medical School, USA

PS-15-3

#### Orexin neurons as sensors of extracellular nutrients

Denis Burdakov

Department of Pharmacology, University of Cambridge, UK

PS-15-4

#### Neurochemistry of hypersomnia

Seiji Nishino

Psychiatry and Behavioral Sciences, Stanford University, USA

## EL-1 Educational Lecture 1

October 19 (Wed.)

16:00-17:00

Room E

*Chairperson:*

**Yuichi Inoue**

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

EL-1-1

#### Neurobehavioral dynamics of sleep restriction and recovery

David F. Dinges

Department of Psychiatry, University of Pennsylvania School of Medicine, USA

## EL-2 Educational Lecture 2

October 19 (Wed.)

11:00-12:00

Room E

*Chairperson:*

**Kazuki Honda**

Sleep Science Laboratories, Hamri Co., Ltd., Japan

EL-2-1

#### Genetics of sleep disorders

Mehdi Tafti

Center for Integrative Genomics, University of Lausanne, Switzerland

## EL-3 Educational Lecture 3

October 19 (Wed.)

10:00-11:00

Room E

*Chairperson:*

**Yoshimasa Koyama** Department of Science and Technology, Fukushima University, Japan

EL-3-1

**The neuronal network responsible for paradoxical (REM) sleep and its dysfunctions causing narcolepsy and REM behavior disorder**

Pierre-Herv Luppi

team "Physiopathology of the neuronal network of the sleep-waking cycle" of the CRNL, UMR 5292 CNRS/U1028 INSERM, France

## EL-4 Educational Lecture 4

October 19 (Wed.)

17:00-18:00

Room E

*Chairperson:*

**Makoto Uchiyama** Department of Psychiatry, Nihon University School of Medicine, Japan

EL-4-1

**Epidemiology, Insomnia, Mental disorders**

Maurice M. Ohayon

Stanford Sleep Epidemiology Research Center, School of Medicine, Stanford University, USA

## EL-5 Educational Lecture 5

October 20 (Thu.)

10:00-11:00

Room E

*Chairperson:*

**Tetsuo Shimizu** Department of Neuropsychiatry, Akita University Graduate School of Medicine, Japan

EL-5-1&2

**Violent Parasomnias: Forensic Implications**

Michel A. Cramer Bornemann

Minnesota Regional Sleep Disorders Center, Hennepin County Medical Center, USA

Mark W. Mahowald

Hennepin County Medical Center and University of MN Medical School, Minneapolis, MN, USA

## EL-6 Educational Lecture 6

October 20 (Thu.)

11:00-12:00

Room E

*Chairperson:*

**Yoshihiro Urade** Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

EL-6-1

**Circadian Rhythm, Human, Sleep-Wake**

Charles Czeisler

Harvard Medical School, USA



## EL-7 Educational Lecture 7

October 20 (Thu.)

14:00-15:00

Room E

*Chairperson:*

**Hiroshi Kimura**

Nara Medical University, Japan

EL-7-1

### Sleep Apnea Syndromes

**Kingman P. Strohl**

Medicine, Case Western Reserve University, USA

## EL-8 Educational Lecture 8

October 20 (Thu.)

15:00-16:00

Room E

*Chairperson:*

**Takashi Ebisawa**

Tokyo Metropolitan Police Hospital, Japan

EL-8-1

### Molecular characterization of human sleep variants

**Ying-Hui Fu**

Department of Neurology, University of California, San Francisco, USA

## ES-1 Educational Symposium 1

October 16 (Sun.)

13:00-15:00

Room E

### Humoral regulation of sleep

*Organizer:*

**Yoshihiro Urade**

Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

*Chairperson:*

**Clifford Saper**

Beth Israel Deaconess Med Ctr/ Harvard Med School, Beth Israel Deaconess Med Ctr/ Harvard Med School, USA

ES-1-1

### Humoral and neural regulation of sleep - Lessons from prostaglandin D<sub>2</sub> induced sleep

**Yoshihiro Urade**

Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

ES-1-2

### Key roles of the histaminergic system for the somnogenic effect of prostaglandin D<sub>2</sub> and adenosine

**Zhi-Li Huang**

Department of Pharmacology, Shanghai Medical College, Fudan University, China

ES-1-3

### Diurnal Variation of Prostaglandin Metaboites D and Lipocalin Type Prostaglandin D Synthase in Healthy Volunteers

**Janet M. Mullington**

Beth Israel Deaconess Medical Center and Harvard Medical School, USA

ES-1-4

## Humoral Regulation of Sleep: Past, Present and Future

Mark R. Opp

Anesthesiology & Pain Medicine, University of Washington, USA

## ES-2 Educational Symposium 2

October 17 (Mon.)

16:00-18:00

Room D

### Transcriptome Analysis-Applications To Studies of Sleep

*Organizer / Chairperson:*

**Allan I. Pack**

Medicine/Sleep Division, University of Pennsylvania, USA

ES-2-1

#### Overview of transcriptome approaches to sleep and wake and sleep disorders

Allan I. Pack

Medicine/Sleep Division, University of Pennsylvania, USA

ES-2-2

#### Molecular and neuroanatomical signatures of sleep deprivation

Thomas S. Kilduff

Center for Neuroscience, SRI International, USA

ES-2-3

#### Computational approaches to analysis of microarray data sets

Ron C. Anafi

Division of Sleep Medicine, University of Pennsylvania, USA

ES-2-4

#### Using microarrays to identify novel biomarkers

Erna S. Arnardottir

Dept of Resp Medicine and Sleep, Landspítali University Hospital, Iceland

## ES-3 Educational Symposium 3

October 17 (Mon.)

16:00-18:00

Room E

### Mathematical Modeling as a Tool for Exploring Sleep-Wake Control Mechanisms

*Organizer / Chairperson:*

**Mitsuyuki Nakao**

Graduate School of Information Sciences, Tohoku University, Japan

ES-3-1

#### On the neuronal regulation of sleep-wakefulness-Neurophysiological approaches-

Yoshimasa Koyama

Department of Science and Technology, Fukushima University, Japan

ES-3-2

#### Physiologically Based Quantitative Modeling of Sleep Dynamics

Peter A. Robinson

School of Physics, University of Sydney, Australia

ES-3-3

### Insights from mathematical modeling of sleep-wake behavior

Cecilia G. Diniz Behn

Department of Mathematics, Gettysburg College, USA

ES-3-4

### From Flip-Flop to Cycles: Neural Regulation Mechanism of Sleep-Wake States

Mitsuyuki Nakao

Graduate School of Information Sciences, Tohoku University, Japan

## ES-4 Educational Symposium 4

October 17 (Mon.)

16:00-18:00 Room C-1

### Losing the struggle to stay awake

*Organizer:*

**Richard D. Jones**

Neurotechnology Research Programme, Van der Veer Brain Research Institute, New Zealand

*Chairperson:*

**David F. Dinges**

Department of Psychiatry, University of Pennsylvania School of Medicine, USA

ES-4-1

### Arousal-related lapses of responsiveness: Characteristics, detection, and underlying mechanisms

Richard D. Jones

Neurotechnology Research Programme, Van der Veer Brain Research Institute, New Zealand

ES-4-2

### Capacity limits of information processing when sleep deprived

Michael WL. Chee

Research / NBD, Duke-NUS Graduate Medical School Singapore, Singapore

ES-4-3

### A mobile EEG device for on-line assessment of sleep quality

Li-Wei Ko

Department of Electrical Engineering / Brain Research Center National Chiao Tung University, Taiwan

## ES-5 Educational Symposium 5

October 18 (Tue.)

10:00-12:00

Room E

### Hypersomnia

*Organizers / Chairpersons:*

**Makoto Honda**

Psychiatry and Behavioral Sciences, Sleep Research Project, Tokyo Metropolitan Institute of Medical Science, Japan

**Isabelle Arnulf**

Sleep Disorder Unit, Pitie-Salpetriere Hospital, France

ES-5-1

### Narcolepsy and Idiopathic Hypersomnia

Makoto Honda

Psychiatry and Behavioral Sciences, Sleep Research Project, Tokyo Metropolitan Institute of Medical Science, Japan

ES-5-2

### Symptomatic narcolepsy and hypersomnia

Seiji Nishino

Psychiatry and Behavioral Sciences, Stanford University, USA

ES-5-3

### Kleine-Levin syndrome

Isabelle Arnulf

Sleep Disorder Unit, Pitie-Salpetriere Hospital, France

ES-5-4

### Hypersomnia associated with mood disorders

Naoto Yamada

Department of Psychiatry, Shiga University of Medical Science, Japan

## IS-1 Industrial Symposium 1

October 16 (Sun.)

13:00-15:00 Main Hall

### Multi-faceted actions of melatonin and melatonin receptor agonists on human sleep

*Chairpersons:*

**Makoto Uchiyama**

Department of Psychiatry, Nihon University School of Medicine, Japan

**Geert Mayer**

Department of Neurology, Hephata Klinik/ Philipps-Universitt Marburg, Germany

IS-1-1

### Interaction of melatonin and light on wake & sleep EEG and thermoregulation

Christian Cajochen

Psychiatric University Clinics, Centre for Chronobiology, University of Basel, Switzerland

IS-1-2

### Effects of Ramelteon on Temperature and Sleep Physiology During Circadian Misalignment

Kenneth P. Wright Jr.

Department of Integrative Physiology, University of Colorado Boulder, USA

IS-1-3

### Melatonin and melatonin receptor agonist in the treatment of circadian rhythm sleep disorders

Makoto Uchiyama

Department of Psychiatry, Nihon University School of Medicine, Japan

IS-1-4

### Ramelteon's Effects on Insomnia

Geert Mayer

Department of Neurology, Hephata Klinik/ Philipps-Universitt Marburg, Germany

Sponsored by Takeda Pharmaceutical Company Limited.

## IS-2 Industrial Symposium 2

October 16 (Sun.)

15:00-17:00

Room E

### Current update on the strategy for diagnosis and treatment of chronic insomnia

*Chairperson:*

**Yuichi Inoue**

Japan Somnology Center, Neuropsychiatric Research Institute/  
Department of Somnology, Tokyo Medical University, Japan

#### IS-2-1

### An International Survey on Quality-of-life and Utility Scores in Chronic Insomniacs Compared to Good Sleepers of Japan, France and United States of America

Damien Léger

Centre du Sommeil et de la Vigilance de l'Hôtel Dieu de Paris, Université Paris Descartes. APHP, France

#### IS-2-2

### Guideline for the Evaluation and Management of Chronic Insomnia: USA Perspective

Phyllis C. Zee

Center for Sleep & Circadian Biology, Northwestern University, USA

#### IS-2-3

### Importance of Sleep to Suppress Cardiovascular Events After the Great East Japan Earthquake

Kazuomi Kario

Division of Cardiovascular Medicine/School of Medicine, Jichi Medical University, Japan

#### IS-2-4

### Making Japanese consensus report on the management of insomnia in general practice

Makoto Uchiyama

Department of Psychiatry, Nihon University School of Medicine, Japan

Sponsored by sanofi-aventis K.K.

## IS-3 Industrial Symposium 3

October 17 (Mon.)

10:00-12:00

Room B-1

### Daytime Sleepiness and Society

*Chairperson:*

**Yuichi Inoue**

Japan Somnology Center, Neuropsychiatric Research Institute/  
Department of Somnology, Tokyo Medical University, Japan

#### IS-3-1

### Sleepiness and Safety: Where Biology Needs Technology

David F. Dinges

Department of Psychiatry, University of Pennsylvania School of Medicine, USA

#### IS-3-2

### Night Work Sleepiness

Torbjorn G. Akerstedt

Stress Research, Stockholm University, Sweden

IS-3-3

### **Epidemiology of Daytime Sleepiness**

Markku Partinen

Helsinki Sleep Clinic, Vitalmed Research Centre & University of Helsinki, Finland

IS-3-4

### **Accidents Risk in Sleep Disorders**

Yuichi Inoue

Japan Somnology Center, Neuropsychiatric Research Institute/  
Department of Somnology, Tokyo Medical University, Japan

IS-3-5

### **Movement Disorders in Narcolepsy**

Yves A. Dauvilliers

Department of Neurology, Gui de Chauliac Hospital, Montpellier University, France

Sponsored by Cephalon, Inc.

## **IS-4 Industrial Symposium 4**

October 18 (Tue.)

10:00-12:00 Room B-1

*Chairpersons:*

**Kazuo Chin**

Department of Respiratory Care and Sleep Control Medicine, Graduate School of  
Medicine, Kyoto University, Japan

**Naresh Punjabi**

Division of Pulmonary and Critical Care Medicine, Johns Hopkins University, USA

IS-4-1

### **Metabolic Risk of Sleep Apnea**

Naresh M. Punjabi

Division of Pulmonary and Critical Care Medicine, Johns Hopkins University, USA

IS-4-2

### **Effects of Intermittent Hypoxia on Several Parameters for Cardiovascular Risk Factors**

Kiminobu Tanizawa

Graduate School of Medicine, Department of Respiratory Medicine, Kyoto University, Japan

IS-4-3

### **Molecular Effects of Obstructive Sleep Apnea: Summary and Perspectives**

Vsevolod (Seva) Polotsky

Division of Pulmonary and Critical Care Medicine/Department of Medicine, Johns Hopkins University  
School of Medicine, USA

IS-4-4

### **Cardiovascular and Metabolic Consequences of Obstructive Sleep Apnea: Mechanisms**

Patrick Levy

Physiology, Grenoble University, France

Sponsored by ResMed

## IS-5 Industrial Symposium 5

October 19 (Wed.)

10:00-12:00 Room B-1

*Chairpersons:*

**David P. White**

Sleep Medicine/ Medicine, Harvard Medical School, Brigham and Women's Hospital, USA

**Hiroshi Kimura**

2nd Dept. of Internal Medicine, Nara Medical University, Japan

**IS-5-1**

### Genetic Underpinnings of Ventilatory Control

Kingman P. Strohl

Medicine, Case Western Reserve University, USA

**IS-5-2**

### OSA Phenotype and Breathing Irregularity

Motoo Yamauchi

Department of Respiratory Medicine, Nara Medical University, Japan

**IS-5-3**

### Mechanical Properties and Compensatory Neuromuscular Responses of the Upper Airway in Obstructive Sleep Apnea

Takao Ayuse

Department of Clinical Physiology, Nagasaki University Graduate School of Biomedical Sciences, Japan

**IS-5-4**

### The Neurobiology of Obstructive Sleep Apnea

Leszek Kubin

Department of Animal Biology, University of Pennsylvania, USA

Sponsored by Philips Respironics

## IS-6 Industrial Symposium 6

October 19 (Wed.)

16:00-18:00 Room B-1

### Recent Advances in the Diagnosis and Treatment of Restless Legs Syndrome

**IS-6-1**

#### Clinical significance and diagnosis of restless legs syndrome

*Chair:* Koichi Hirata MD, PhD

Professor and Chairman, Department of Neurology, Dokkyo Medical University

*Speaker:* Yuichi Inoue MD, PhD

Director, Japan Somnology Center, Neuropsychiatric Research Institute Professor, Department of Somnology, Tokyo Medical University

**IS-6-2**

#### Headache and their association with sleep - Comorbidity of restless legs syndrome in migraine

*Chair:* Yuichi Inoue MD, PhD

Director, Japan Somnology Center, Neuropsychiatric Research Institute Professor, Department of Somnology, Tokyo Medical University

*Speaker:* Koichi Hirata MD, PhD

Professor and Chairman, Department of Neurology, Dokkyo Medical University

IS-6-3

## Current Diagnostic and Management Strategies of Restless Legs Syndrome in United States

*Chair:* Yuichi Inoue MD, PhD

Director, Japan Somnology Center, Neuropsychiatric Research Institute  
Professor, Department of Somnology, Tokyo Medical University

*Speaker:* Clete A. Kushida MD, PhD

Professor, Med Center Line, Psychiatry & Behavioral Science, Stanford Sleep Medicine Center, USA

Simultaneous Interpreting Service (JPN-ENG)

Sponsored by Astellas Pharma Inc.

## IS-7 Industrial Symposium 7

October 20 (Thu.)

10:00-12:00 Room B-1

*Chairpersons:*

**Yuichi Inoue**

Japan Somnology Center, Neuropsychiatric Research Institute/  
Department of Somnology, Tokyo Medical University, Japan

**Wolfgang Oertel**

Department of Neurology, Philipps University Marburg, Germany

IS-7-1

### Overview of Current RLS Therapy with Dopamine Agonists

Wolfgang Oertel

Department of Neurology, Philipps University Marburg, Germany

IS-7-2

### Pathophysiology of RLS from Genetic Research Perspective

Jacques Montplaisir

Centre d'Etude du Sommeil, Hopital du Sacre-Coeur de Montreal, Canada

IS-7-3

### RLS-Related Neuropathy

Koichi Hirata

Department of Neurology, Dokkyo Medical University, Japan

IS-7-4

### Augmentation and Complications due to Dopamine Therapy

Birgit Högl

Head of the Sleep Disorders Clinic, Department of Neurology, Innsbruck Medical University, Austria

IS-7-5

### RLS in End-Stage Renal Disorder Patients

Yuichi Inoue

Japan Somnology Center, Neuropsychiatric Research Institute/  
Department of Somnology, Tokyo Medical University, Japan

Sponsored by OTSUKA PHARMACEUTICAL CO., LTD.



## AS-1 Abstract Symposium 1

October 16 (Sun.)

10:00-12:00 Room B-2

### The Clinical efficacy and indications of Cognitive Behavior Therapy for Insomnias

*Organizer / Chairperson:*

**Hiroshi Itoh** Department of Psychiatry, The Jikei University School of Medicine, Japan

*Chairperson:*

**Michael V. Vitiello** Psychiatry and Behavioral Sciences, University of Washington, USA

#### AS-1-1

### Cognitive Behavior Therapy for Insomnia Improves Sleep and Decreases Pain in Older Adults with Co-morbid Insomnia and Osteoarthritis

Michael V. Vitiello

Psychiatry and Behavioral Sciences, University of Washington, USA

#### AS-1-2

### The role of self-help CBT-I in the management of insomnia symptoms associated with chronic disease

Kevin Morgan

Sleep Research Centre, SSEHS, Loughborough University, UK

#### AS-1-3

PO-1-008

### Effects of cognitive behavioral therapy on patients with pharmacological treatment-resistant insomnia

Isa Okajima

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

#### AS-1-4

PO-1-005

### Night-to-night sleep variability in insomnia patients participating in group CBTI

Sooyeon Suh

Department of Psychiatry, Department of Sleep Medicine, Stanford University, USA

#### AS-1-5

PO-1-016

### The Clinical trial of group Cognitive Behavior Therapy for Primary Insomnia in Outpatients

Wataru Yamadera

Department of Psychiatry, Jikei University School of Medicine, Japan

## AS-2 Abstract Symposium 2

October 16 (Sun.)

10:00-12:00 Room D

### Inflammation in Children with OSA

*Organizer / Chairperson:*

**Meiho Nakayama** Good Sleep Center, Nagoya City University, Japan

#### AS-2-1

### Seasonal Changes of Obstructive Sleep Apnea Syndrome (OSAS) in Children

Meiho Nakayama

Good Sleep Center, Nagoya City University, Japan

AS-2-2

**Vascular dysfunction in children with obstructive sleep apnoea: is it only obesity?**

Albert Martin Li

Department of Paediatrics, Prince of Wales Hospital, The Chinese University of Hongkong, Singapore

AS-2-3

PO-1-162

**A Comparison between pre and post-operative sleep structures in pediatric Obstructive Sleep Apnea patients**

Yoichi Nishimura

Department of Otorhinolaryngology, Fujita Health University, Japan

AS-2-4

PO-1-032

**Association between symptoms of sleep-disordered breathing and daytime sleepiness with school-aged children in Japan: A large-scale cross-sectional survey**

Eriko Tsukada

Department of Psychophysiology, National Institute of Mental Health, National Center of Neurology and Psychiatry, Japan

## AS-3 Abstract Symposium 3

October 16 (Sun.)

10:00-12:00 Room C-1

### Translational research of lighting effects on biological rhythms and sleep: Creating a path to next generation lighting

*Organizer / Chairperson:*

**Hiroki Noguchi**

Lighting R&D Center, Panasonic Electric Works, Japan

AS-3-1

**Non-visual light responses in humans**

Joshua J. Gooley

Neuroscience and Behavioral Disorders, Duke-NUS Graduate Medical School, Singapore

AS-3-2

**Non-visual effect of light and sleep: new findings from the studies in children and melanopsin gene polymorphism**

Shigekazu Higuchi

Department of Human Science, Kyushu University, Japan

AS-3-3

PO-2-069

**Effect of scheduled physical exercise on re-entrainment of human circadian rhythms to 8 h advanced sleep schedule in isolation facility**

Yujiro Yamanaka

Department of Physiology, Hokkaido University Graduate School of Medicine, Japan

AS-3-4

PO-2-070

**Effects of single exposure to evening blue light on latency to persistent sleep, slow wave activity, melatonin production and cognitive performance**

Carmen Irma Garcia

Department of Interdisciplinary Sleep Medicine, Charité Universitätsmedizin Berlin, Germany

AS-3-5

PO-2-147

**Multi-Colored Effects of LED Light on Cognitive Function and Psychological Parameter in the Evening**

Marie Goto

Department of Medicine, Kyoto University, Japan

## AS-4 Abstract Symposium 4

October 16 (Sun.)

10:00-12:00 Room C-2

### Cross-cultural comparisons between sleep and daytime functioning in adolescents.

*Organizer / Chairperson:*

**Anne Marie Meijer**

Research Institute of Child Development and Education, University of Amsterdam,  
The Netherlands

#### AS-4-1

### A cross-national comparison of teen sleep between Australia and the U.S.: The role of school start time, parental limit-setting and extra-curricular activities.

Michelle A. Short

School of Psychology, Flinders University, Australia

#### AS-4-2

### A cross-cultural comparison between Australian and Dutch adolescents, that relates chronic sleep reduction to sleep measures as well as to school performance

Julia F. Dewald

Research Institute of Child Development and Education, University of Amsterdam, Netherlands

#### AS-4-3

PO-2-144

### Media usage as a predictor of irregular sleeping patterns

Vnnen Teija

Health promotion, Folkhlsan Research Center, Finland

#### AS-4-4

PO-1-018

### Sleep disturbance and attention deficit/hyperactivity symptoms in young adults

Bogdan I. Voinescu

Department of Psychology, Babes Bolyai University, Romania

#### AS-4-5

PO-2-216

### Predictors of sleeping difficulties in young women

Dorothy Bruck

Social Sciences and Psychology, Victoria University, Australia

## AS-5 Abstract Symposium 5

October 16 (Sun.)

15:00-17:00 Room B-2

### Clinical aspects of circadian rhythm sleep disorder

*Organizer / Chairperson:*

**Makoto Imai**

Department of Psychiatry, Shiga University of Medical Science, Japan

#### AS-5-1

### Clinical significance of phase determination of melatonin rhythms for the treatment of circadian rhythm sleep disorders

Minori Enomoto

Department of Psychophysiology, National Institute of Mental Health, National Center of Neurology &  
Psychiatry, Japan

#### AS-5-2

### Clinical Practice of Circadian Rhythm Sleep Disorders

Tsuyoshi Kitajima

Department of Psychiatry, School of Medicine, Fujita Health University, Japan

AS-5-3

PO-1-195

## Timing Non-adherence is Associated with Chronotype in Renal Transplant Recipients

Hanna Burkhalter

Institute of Nursing Science, Basel University, Switzerland

AS-5-4

PO-2-059

## Animal models of human sleep-wake cycle: non-SCN circadian behavior rhythms in rodents

Akiyo Kameyama

Department of Physiology, Hokkaido University, Japan

## AS-6 Abstract Symposium 6

October 16 (Sun.)

15:00-17:00

Room D

### Dentofacial and craniofacial features in obstructive sleep apnea

*Organizers / Chairpersons:*

**Satoru Tsuiki**

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

**Alan A. Lowe**

Department of Oral Health Sciences, Faculty of Dentistry, The University of British Columbia, Canada

AS-6-1

### Craniofacial Comparisons Between Asian and Caucasian Patients with Obstructive Sleep Apnea

Alan A. Lowe

Department of Oral Health Sciences, Faculty of Dentistry, The University of British Columbia, Canada

AS-6-2

### Anatomical balance of the upper airway in Japanese and Caucasian patients with obstructive sleep apnea

Satoru Tsuiki

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

AS-6-4

PO-1-159

### Unusually Severe REM Sleep Apnea Hypopnea in a Child, Strengthens Genetic Linkage with Parents

Antonio Q. Chan

Chanwell Clinic Institute for Heart & Sleep Disorders, Stanford University School of Medicine, USA

## AS-7 Abstract Symposium 7

October 16 (Sun.)

15:00-17:00

Room C-1

### Epilepsy research: overall outcomes related to sleep

*Organizer / Chairperson:*

**Sergio Tufik**

Department of Psychobiology, Universidade Federal de Sao Paulo, Brazil

AS-7-1

### Interaction of sexual and sleep problems related to epilepsy

Monica L. Andersen

Department of Psychobiology, Universidade Federal de Sao Paulo, Brazil

AS-7-2

PO-1-104

### **Epilepsy and dementia coexist frequently in obstructive sleep apnea syndrome**

Masakazu Wakai

Department of Neurology, Kakegawa Municipal General Hospital, Japan

AS-7-3

PO-2-045

### **The role of prostaglandin D2 in causing post-ictal sleep following seizures**

Mahesh K. Kaushik

Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

AS-7-4

PO-2-064

### **Kindling stimuli delivered at distinct zeitgeber time points alter homeostatic factor and circadian rhythm differently**

Pei-Lu Yi

Department of Veterinary Medicine, National Taiwan University, Taiwan /

Department of Sports, Health & Leisure, Aletheia University, Taiwan

## **AS-8 Abstract Symposium 8**

October 16 (Sun.)

15:00-17:00 Room C-2

### **Social Determinants of Sleep: From Epidemiology to Health Policy**

*Organizer / Chairperson:*

**Michikazu Sekine**

Department of Epidemiology, University of Toyama, Japan

AS-8-1

### **Policy Implications of Socioeconomic Inequalities in Sleep: Results from International Comparative Studies on British, Finnish and Japanese civil servants**

Michikazu Sekine

Department of Epidemiology, University of Toyama, Japan

AS-8-2

### **Examining a pathway between social inequality in sleep and health related behaviors using the National Child Development Study**

Noriko Cable

Epidemiology and Public Health, University College London, UK

AS-8-3

### **Economic difficulties and poor sleep: longitudinal associations and international comparisons**

Tea M. Lallukka

Hjelt Institute, Department of Public Health, University of Helsinki, Finland

AS-8-4

PO-2-225

### **Tired and insignificant**

Tina Sundelin

Department of Psychology, Stockholm University, Sweden

AS-8-5

PO-2-143

### **Promoting Sleep Quality Through Meditation**

Jai Prakash Narain Mishra

DEPARTMENT OF SCIENCE OF LIVING, P.M. AND YOGA, JAIN VISHVA BHARATI UNIVERSITY, India

## AS-9 Abstract Symposium 9

October 17 (Mon.)

10:00-12:00 Room B-2

**Intermittent hypoxia model and clinical trials: evidence regarding cardiovascular and metabolic morbidities in sleep apnea**

*Organizer / Chairperson:*

**Patrick Levy**

Physiology, Grenoble University, France

**AS-9-1**

**OSA and Intermittent Hypoxia: from clinical research to hypoxic experiments and vice-versa**

Patrick Levy

Physiology, Grenoble University, France

**AS-9-2**

**Intermittent hypoxia in rodents: evidence for a role of hypoxia in metabolic changes and atherosclerosis**

Vsevolod Y. Polotsky

Division of Pulmonary and Critical Care Medicine/Department of Medicine, Johns Hopkins University School of Medicine, USA

**AS-9-3**

**Clinical trials addressing OSA associated cardiovascular and metabolic outcomes: past, present and future**

Jean-Louis Pepin

INSERM U1042, HP2 laboratory and Locomotion, Rehabilitation and Physiology Department, University Joseph Fourier and Grenoble University Hospital, France

**AS-9-4**

PO-1-119

**Cardiometabolic and neurobehavioural changes after continuous positive airway pressure (CPAP) treatment for OSA: A 12-week randomised sham-controlled study**

Camilla M. Hoyos

Endocrine and Cardiometabolic Group, Woolcock Institute of Medical Research, Australia

**AS-9-5**

PO-1-034

**The Role of Obesity, Different Fat Compartments and Sleep Apnea Severity in Circulating Leptin Levels: The ISAC Study**

Erna S. Arnardottir

Dept of Resp Medicine and Sleep, Landspítali University Hospital, Iceland

## AS-10 Abstract Symposium 10

October 17 (Mon.)

10:00-12:00 Room D

**Beyond the AHI - Novel assessment techniques in sleep disordered breathing**

*Organizer / Chairperson:*

**Jan Hedner**

Sleep Disorders Centre, Sahlgrenska University Hospital, Sweden

**AS-10-1**

**Can a composite analysis of autonomic and vascular signals predict cardiovascular risk? - the ASIC approach**

Ludger Grote

Department of Pulmonary Medicine, Sahlgrenska University Hospital, Sweden

AS-10-2

### Nocturnal transcutaneous CO<sub>2</sub> monitoring - A new message from an old technique

Olli Polo

Department of Respiratory Medicine, Tampere University Hospital, Finland

AS-10-3

PO-1-048

### The effects of body mass index (BMI) on genioglossus motion in awake healthy subjects

Shaokoon Cheng

Neuroscience Research Australia, University of New South Wales, Australia

AS-10-4

PO-1-089

### An index based on the Hilbert transform of the airflow signal that assess regularity and quantifies disturbed breathing during sleep

Javier Diaz

Programa de Fisiologia y Biofisica, Universidad de Chile, Chile

AS-10-5

PO-1-106

### Oral flow measurement for accurate recognition of respiratory events

Masaaki Suzuki

Dept. of Otolaryngology, Teikyo University, Japan

## AS-11 Abstract Symposium 11

October 17 (Mon.)

10:00-12:00

Room E

### Arousal-related lapses

*Organizer / Chairperson:*

**Richard D. Jones**

Neurotechnology Research Programme, Van der Veer Brain Research Institute, New Zealand

AS-11-1

### To lapse or not to lapse: a question of prior sleep, circadian timing and environmental distracters

Clare Anderson

School of Psychology and Psychiatry, Monash University, Australia

AS-11-2

### A paradoxical relationship between usual sleep efficiency and behavioural microsleep propensity following a single night of sleep restriction

Carrie R. H. Innes

Department of Medical Physics and Bioengineering, Van der Veer Institute for Parkinson's and Brain Research, New Zealand

AS-11-3

PO-2-206

### Can relative vulnerability to the effects of sleep deprivation on psychomotor vigilance be estimated using features of daytime performance?

Joshua J. Gooley

Neuroscience and Behavioral Disorders, Duke-NUS Graduate Medical School, Singapore

AS-11-4

PO-1-164

### Ambulant Skin Temperature Regulation and Sleep Attacks in Narcoleptic Patients

Rolf Fronczek

Neurology, Leiden University Medical Centre, Netherlands

AS-11-5

PO-1-243

## Effects of triazolam were influenced by circadian timing of administration

Hirokuni Tagaya

Department of Health Science, Kitasato University, School of Allied Health Sciences, Japan

## AS-12 Abstract Symposium 12

October 17 (Mon.)

10:00-12:00 Room C-1

### Genetic biomarkers for sleep and response to sleep loss in humans

*Organizer / Chairperson:*

**Namni Goel**

Department of Psychiatry, University of Pennsylvania School of Medicine, USA

AS-12-1

### Sleep and Circadian Genes: Predictors for Response to Sleep Restriction

Namni Goel

Department of Psychiatry, University of Pennsylvania School of Medicine, USA

AS-12-2

### The PER3 VNTR and sleep and circadian interaction in humans and animal models

Simon N. Archer

Faculty of Health & Medical Sciences, University of Surrey, UK

AS-12-3

PO-2-217

### Cellular effects of sleep restriction in healthy young men

Hanna M. Ollila

Medical genetics, National Institute for Health and Welfare, University of Helsinki, Finland

AS-12-4

PO-1-028

### A genome-wide linkage study in obstructive sleep apnea phenotypes and sub-phenotypes

Annette Fedson

Center for Sleep and Circadian Neurobiology, University of Pennsylvania, USA

AS-12-5

PO-2-053

### Depressed Mood, Chronic Short Sleep, and 5HTTLPR Polymorphism: Preliminary Report of a Gene X Environment Interaction

Mary A. Carskadon

Department of Psychiatry & Human Behavior, Brown University, USA

## AS-13 Abstract Symposium 13

October 17 (Mon.)

10:00-12:00 Room C-2

### Population-based studies in sleep epidemiology

*Organizer / Chairperson:*

**Nicholas Glozier**

University of Sydney, University of Sydney, Australia

AS-13-1

PO-2-137

### The sleep and technology use of Americans: Results from the 2011 National Sleep Foundation's *Sleep in America Poll*

Michael Gradisar

School of Psychology, Flinders University, Australia



AS-13-2

PO-2-128

### **Sleep habits and sleep problems in school-aged children in Japan: A cross-sectional study**

Shingo Kitamura

Department of Psychophysiology, Natl Ctr of Neurol and Psychiatry Natl Inst of Mental Health, Japan

AS-13-3

### **Time trends in sleep duration - an international review**

Nicholas Glozier

University of Sydney, University of Sydney, Australia

AS-13-4

PO-2-200

### **Work-family conflicts and sleep medication: a longitudinal register-based study**

Ossi J. Rahkonen

Department of Public Health, University of Helsinki, Finland

## **AS-14 Abstract Symposium 14**

October 17 (Mon.)

10:00-12:00

Room I

### **Advances in Neuroimaging of Insomnia**

*Organizer / Chairperson:*

**Thomas C. Neylan**

University of California, San Francisco, University of California, San Francisco, USA

AS-14-1

### **MRI structural and spectroscopic markers of disturbed sleep in Posttraumatic Stress Disorder**

Thomas C. Neylan

University of California, San Francisco, University of California, San Francisco, USA

AS-14-2

PO-1-004

### **Gray matter changes in Brains of Primary Insomnia**

Yong Wan Joong

Department of Neurology, Samsung Medical Center, Korea

AS-14-3

### **Imaging in primary insomnia: Structure, function, sleep, wake**

Peter Franzen

Department of Psychiatry, University of Pittsburgh, USA

AS-14-4

PO-2-213

### **Sleep Deprivation Increases Serotonin 2A Receptor Density in the Human Brain: a [18F] Altanserin PET Study**

David Elmenhorst

Institute for Neuroscience and Medicine, Forschungszentrum Juelich GmbH, Germany

AS-14-5

PO-2-215

### **Cerebral blood flow following acute sleep restriction measured using arterial spin labeling**

Govinda Poudel

Medical Physics and Bioengineering, Van der Veer Institute for Parkinson's and Brain Research, New Zealand

AS-14-6

## **Structural and functional neuroimaging studies in primary insomnia and good sleeper controls**

Dieter Riemann

Department of Psychiatry and Psychotherapy, Freiburg University Medical Center, Germany

## **AS-15 Abstract Symposium 15**

October 17 (Mon.)

16:00-18:00 Room B-2

### **Chronic Insomnia - from psychology to neurobiology**

*Organizer / Chairperson:*

**Dieter Riemann**

Department of Psychiatry and Psychotherapy, Freiburg University Medical Center, Germany

AS-15-1

## **New ways to understand insomnia: brain imaging and web-based phenotyping**

Eus JW Van Someren

Sleep & Cognition, Netherlands Institute for Neuroscience, Netherlands

AS-15-2

## **Phenotyping cognitive factors and cortical arousal in psychophysiological insomnia**

Colin A. Espie

Institute of Neuroscience & Psychology, College of Medical, Veterinary & Life Sciences, University of Glasgow Sleep Centre, UK

AS-15-3

PO-1-002

## **Poor sleep and EEG sleep spindle activity in children and adults with autism**

Roger Godbout

Psychiatry - Sleep Laboratory & Clinic, Université de Montréal, Canada

AS-15-4

PO-2-207

## **Effect of sleep deprivation on sleep, mood and emotional processing**

Kate Porcheret

Nuffield Laboratory of Ophthalmology, University of Oxford, UK

AS-15-5

PO-1-015

## **Efficacy of internet and group administered cognitive behavioral therapy for insomnia in adolescents; a pilot study**

Eduard J. de Bruin

Department of Education, University of Amsterdam, Netherlands

## AS-16 Abstract Symposium 16

October 17 (Mon.)

16:00-18:00 Room C-2

### Geriatric Sleep Medicine- Chance or Burden for the Sleep Societies

*Organizer / Chairperson:*

**Nikolaus C. Netzer**

Hermann Buhl Institute for Hypoxia and Sleep Medicine Research, Paracelsus Medical University Salzburg, Germany

**AS-16-1**

#### Prevalence of nightly hypoxia in the elderly- preliminary data from the international NihyGerDem study

Daniel Dupre

Dept. Psychiatry, UCSD, San Diego, California, USA

**AS-16-2**

#### Sleep disordered breathing in the elderly and its link to frailty and dementia

Helmut Frohnhofen

Dept. Geriatric Medicine, Kliniken Essen Mitte, University of Essen, Germany

**AS-16-3**

PO-2-159

#### Sleep related occupational impairment decreases with age in male workers in the UK.

Erica Kucharczyk

Sleep Research Centre, SSEHS, Loughborough University, UK

**AS-16-4**

PO-2-134

#### The effect of increasing artificial light levels on rest-activity rhythms of older people living in care homes

Debra J. Skene

Centre for Chronobiology, University of Surrey, UK

**AS-16-5**

PO-2-194

#### Recommended levels of walking predict sleep and health outcomes among older people

Iuliana Hartescu

Sleep Research Centre, SSEHS, Loughborough University, UK

## AS-17 Abstract Symposium 17

October 17 (Mon.)

16:00-18:00 Room I

### Novel, non-invasive methods for the study of the interactions between human sleep, circadian rhythmicity, and gene expression

*Organizer / Chairperson:*

**Simon N. Archer**

Faculty of Health & Medical Sciences, University of Surrey, UK

**AS-17-1**

#### Evaluation of the human circadian clock using hair follicle cells

Makoto Akashi

The Research Institute for Time Studies, Yamaguchi University, Japan

AS-17-2

### Light exerts powerful non-visual effects in humans

Christian Cajochen

Psychiatric University Clinics, Centre for Chronobiology, University of Basel, Switzerland, Switzerland

AS-17-3

PO-2-067

### Human circadian rhythm polymorphisms are correlated with climate

Brian E. Cade

Sleep Medicine, Brigham and Women's Hospital / Harvard Medical School, USA

## AS-18 Abstract Symposium 18

October 18 (Tue.)

10:00-12:00 Room B-2

### Pathophysiology of sleep in affective disorders: from animal models to clinical research

*Organizer / Chairperson:*

**Axel Steiger**

Department of Psychiatry, Max Planck Institute of Psychiatry, Germany

AS-18-1

### Sleep phenotyping validates new mouse models of affective disorders

Mayumi Kimura

Neurogenetics of Sleep, Max Planck Institute of Psychiatry, Germany

AS-18-2

### Neurobiological Mechanisms of therapeutic Sleep Deprivation in Depression

Ulrich M. Hemmeter

Center of Education and Research (COEUR), Psychiatric Service of the Canton of St.Gallen, Switzerland

AS-18-3

PO-2-013

### Lower brain activity during sleep and wakefulness; induced by exposure to long maternal separation and chronic mild stress in rats

Jelena Mrdalj

Department of Biological and Medical Psychology, University of Bergen, Norway

AS-18-4

PO-2-220

### Melatonin changes in the pineal gland of sleep deprived rats following habenular nucleus lesion

Hua Zhao

Department of Physiology, Norman Bethune College of Medicine, Ji Lin University, China

## AS-19 Abstract Symposium 19

October 18 (Tue.)

10:00-12:00 Room D

### Patient-focused determinants of CPAP adherence

*Organizer / Chairperson:*

**Angela J. Campbell**

WellSleep, Otago University Wellington, New Zealand

AS-19-1

### Ethnic disparities in CPAP USAGE: QUANTITATIVE effects of socioeconomic STATUS, HEALTH LITERACY AND SELF-EFFICACY

Alister M. Neill

WellSleep, Otago University Wellington, New Zealand

AS-19-2

### The Impact of SLEEP CONSULTATION PRIOR TO A DIAGNOSTIC POLYSOMNOGRAM ON CPAP ADHERENCE

Angela Campbell

WellSleep, Otago University Wellington, New Zealand

AS-19-3

PO-1-120

### The effect of continuous positive airway pressure usage on symptoms of obstructive sleep apnea: real effects or expectation of benefit?

Nathaniel S. Marshall

Sleep Research Group, Woolcock Institute, University of Sydney, Australia

AS-19-4

PO-1-123

### The role of social cognitive theory (SCT) in CPAP adherence: Data from two randomised controlled studies

Delwyn J. Bartlett

Sleep & Circadian Research group, Woolcock Institute of Medical Research, Australia

AS-19-5

PO-1-127

### Mask desensitization improves nasal PAP compliance in non-adherent patients with sleep apnea

Rose C. Wei

Chanwell Clinic Institute for Heart & Sleep Disorders, University of California L.A., USA

## AS-20 Abstract Symposium 20

October 18 (Tue.)

10:00-12:00 Room C-1

### Sleep bruxism - from benchside to CHAIRSIDE

*Organizer / Chairperson:*

**Nelly T. Huynh**

Faculty of Dentistry, University of Montreal, Canada

AS-20-1

#### Sleep bruxism from benchside to CHAIRSIDE

Nelly T. Huynh

Faculty of Dentistry, University of Montreal, Canada

AS-20-2

#### Sleep bruxism: from human research to clinical perspective

Maria Clotilde Carra

Faculty of Dentistry, University of Montreal, Canada

AS-20-3

PO-1-058

#### Sleep bruxism, Sleep Apnea and CPAP compliance: The Icelandic Sleep Apnea Cohort

Thorarinn Gislason

Faculty of Medicine, University of Iceland, Iceland

AS-20-4

PO-2-027

#### The patterns of close-open jaw movement during sleep in normal subjects

Kazuo Okura

Department of Fixed Prosthodontics, The University of Tokushima Graduate School, Japan

AS-20-5

## Sleep bruxism: transfer knowledge between human research and basic science

Takafumi Kato

Department of Oral Anatomy and Neurobiology, Osaka University Graduate School of Dentistry, Japan

## AS-21 Abstract Symposium 21

October 18 (Tue.)

10:00-12:00 Room C-2

### Response to Chronic Sleep Restriction: Homeostatic or Allostatic?

*Organizer / Chairperson:*

**Robert Strecker**

Research Service and Psychiatry, VABHS & Harvard Medical School, USA

AS-21-1

### Decoupling of sleepiness from sleep time and intensity during chronic sleep restriction: the role of adenosine and norepinephrine system

Youngsoo Kim

Department of Psychiatry, Harvard Medical School, USA

AS-21-2

### Time-of-day modulation of sleep homeostasis and adaptation in a rat model of chronic sleep restriction

Samuel Deurveilher

Anatomy and Neurobiology, Dalhousie University, Canada

AS-21-3

PO-2-226

### Consistent increases of delta sleep in individuals exposed to chronic sleep restriction

John Axelsson

Clinical Neuroscience, Karolinska Institute, Sweden

AS-21-4

PO-2-219

### Endothelial function in healthy adults with insufficient sleep

Akiko Noda

Department of Biomedical Sciences, Chubu University, Japan

AS-21-5

PO-2-218

### The effects of sleep deprivation on sympathoadrenal system and hypothalamic-pituitary-adrenocortical axis using salivary stress markers

Masayuki Konishi

Graduate School of Sport Sciences, Waseda University, Japan

## AS-22 Abstract Symposium 22

October 19 (Wed.)

10:00-12:00 Room B-2

### Dissection of sleep-wake circuitry using conditional transgenics

*Organizer / Chairperson:*

**Patrick M. Fuller**

Department of Neurology, Beth Israel Deaconess Medical Center and Harvard Medical School, USA

AS-22-1

### Remote control of sleep-wake states using viral vectors

Patrick M. Fuller

Department of Neurology, Beth Israel Deaconess Medical Center and Harvard Medical School, USA

AS-22-2

**The role of adenosine A<sub>2A</sub> receptors in the nucleus accumbens for sleep-wake regulation**

Michael Lazarus

Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

AS-22-3

**Orexin/hypocretin neurons specific control of gene expression reveals its physiological role in vivo**

Akihiro Yamanaka

Cell Signaling, National Institute for Physiological Sciences, Japan

AS-22-4

PO-2-062

**Prostaglandin D2 produced by Lipocalin-type Prostaglandin D Synthase in the leptomeninges of the brain is involved in sleep regulation**

Yoan Chrasse

Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

AS-22-5

PO-2-060

**Non-circadian direct effects of light on sleep and alertness are mediated via several hypothalamic pathways including the SCN and the VLPO**

Patrice Bourgin

Sleep clinic and Neuroscience Institute, CNRS and University of Strasbourg, France

AS-22-6

PO-1-239

**Relative contribution of orexin-1 and orexin-2 receptors to the sleep effects induced by a dual OX1/2R antagonist**

Christine Dugovic

Neuroscience, Johnson & Johnson PRD, USA

## AS-23 Abstract Symposium 23

October 19 (Wed.)

10:00-12:00 Room C-1

### Sleep and energy: new data on an old question

*Organizer / Chairperson:*

**Radhika Basheer**

Psychiatry, Harvard Medical School-VA Boston Healthcare System

AS-23-1

**Adenosine, Homeostasis and Brain Energy**

Anna Kalinchuk

Harvard Medical School, Harvard University, USA

AS-23-2

**Sleep is for a Surge in Brain Energy**

Radhika Basheer

Psychiatry, Harvard University and VA Boston Healthcare System, USA

AS-23-3

**Neuroglial metabolic coupling during the sleep-wake cycle**

Jean-Marie Petit

NeuroEnergetic and Cellular Dynamic Laboratory, CHUV - EPFL, Switzerland

AS-23-4

PO-2-043

## **Vesicular Nucleotide Transporter is Dominantly Express in Sleep-Wake Centers of the Central Nervous System**

Elizabeth K. Mitamura

Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

AS-23-5

PO-2-034

## **Feeding-induced cataplexy and c-Fos expression in brain areas projecting to the brainstem in orexin knockout mice**

Yo Oishi

Department of Neurology, E/CLS-717, Beth Israel Deaconess Medical Center and Harvard Medical School, USA

## **AS-24 Abstract Symposium 24**

October 19 (Wed.)

10:00-12:00 Room C-2

### **Novel Mechanisms of Sleep Regulation - Hypothalamus and Neocortex**

*Organizer / Chairperson:*

**Ronald Szymusiak**

Departments of Medicine and Neurobiology, University of California, Los Angeles, USA

AS-24-1

### **Preoptic hypothalamic neurons are activated by homeostatic sleep pressure**

Ronald Szymusiak

Departments of Medicine and Neurobiology, University of California, Los Angeles, USA

AS-24-2

### **Optogenetic manipulation of the activity of orexin neurons controls sleep/wakefulness state in mice**

Tomomi Tsunematsu

Section of Cell Signaling, National Institute for Physiological Sciences, Japan

AS-24-3

### **Activation of Cortical Interneurons During Slow Wave Sleep: An Anatomical Link to Sleep Homeostasis?**

Thomas S. Kilduff

Center for Neuroscience, SRI International, USA

AS-24-4

PO-1-256

### **Differential roles of orexin receptor-1 and -2 in the regulation of non-REM and REM sleep**

Michihiro Mieda

Department of Molecular Neuroscience and Integrative Physiology, Kanazawa University, Japan

AS-24-5

PO-2-008

### **Substance P depolarizes sleep-active cortical neurons and induces EEG synchronization**

Jaime E. Heiss

Biosciences Division, SRI International, USA



### Electrophysiological study of neural sleep-wake systems in the forebrain

*Organizer / Chairperson:*

**Barbara E. Jones** Montreal Neurological Institute, McGill University, Canada

#### AS-25-1

### How cholinergic, gabaergic and glutamatergic basal forebrain neurons regulate sleep-wake states

**Barbara E. Jones**  
Montreal Neurological Institute, McGill University, Canada

#### AS-25-2

### ROLES OF PREOPTIC AND ADJACENT BASAL FOREBRAIN NEURONS IN THE CONTROL OF SLEEP-WAKING SWITCH

**Kazuya Sakai**  
Neuroscience Research Center, INSERM U1028, CNRS UMR5292, France

#### AS-25-3

### How projection and inter-neurons in the thalamus and cortex modulate EEG activity across sleep-wake states

**Igor Timofeev**  
Psychiatry and Neuroscience, Laval University, Canada

#### AS-25-4

PO-2-049

### Basal forebrain histamine: increases during wakefulness, induces wakefulness and activates the cortex

**Janneke C. Zant**  
Institute of Biomedicine/Physiology, University of Helsinki, Finland

#### AS-25-5

PO-2-004

### Physiological significance of serotonergic inhibitory inputs to orexin neurons

**Sawako Tabuchi**  
Cell Signaling, NIPS, Japan

#### AS-25-6

PO-1-241

### Essential Roles of GABA transporter-1 in Controlling Rapid Eye Movement Sleep and Increased Slow Wave Activity after Sleep Deprivation

**Xin-hong Xu**  
Department of Pharmacology, Shanghai Medical College, Fudan University, China

## AS-26 Abstract Symposium 26

October 19 (Wed.)

16:00-18:00

Room D

### Treatment options for mild to moderate sleep apnea patients.

*Organizer / Chairperson:*

**Fernanda R. Almeida** Department of Oral Health Sciences, Faculty of Dentistry, The University of British Columbia, Canada

AS-26-1

#### Treatment options for mild to moderate sleep apnea patients

Fernanda R. Almeida

Department of Oral Health Sciences, Faculty of Dentistry, The University of British Columbia, Canada

AS-26-2

PO-1-121

#### A Comparative Effectiveness Trial of Continuous Positive Airway Pressure (CPAP) versus Oral Appliance (OA) Therapy in Obstructive Sleep Apnea (OSA)

Craig L. Phillips

Department of Respiratory & Sleep Medicine, Royal North Shore Hospital, Australia

AS-26-3

PO-1-154

#### Effectiveness of a Nasal Airway Stent on Obstructive Sleep Apnea

Makoto Satoh

Sleep Medicine, Tsukuba University, Japan

## AS-27 Abstract Symposium 27

October 19 (Wed.)

16:00-18:00

Room C-1

### Sleep Disorders Cause, predictor, risk or result of Mental Disorders / Diseases

*Organizer / Chairperson:*

**Antje Buettner-Teleaga** Institute of Sleep Research, Woosuk University, Korea

AS-27-1

#### Central role of Sleep Disorders in Mental Disorders / Diseases

Antje Buettner-Teleaga

Institute of Sleep Research, Woosuk University, Korea

AS-27-2

#### Possible Mechanism of Cytomorphological and Apoptotic Changes in Rat Brain Neurons Induced By Rapid Eye Movement Sleep Deprivation

Birendra N. Mallick

SCHOOL OF LIFE SCIENCES, JAWAHARLAL NEHRU UNIVERSITY, India

AS-27-3

#### Links between RBD, RLS, PLM and M. Parkinson & Links between OSAS and Dementia, Depression, Anxiety

Han Fang

Department of Respiratory Sleep Center, Peking University People's Hospital, China

AS-27-4

PO-1-003

**Residual sleep disturbances after remission of major depressive disorder - A 4- year naturalistic follow-up study**

Xin Shirley Li

Psychiatry, The Chinese University of Hong Kong, China

AS-27-5

PO-1-191

**Not current, but recent weather is associated with suicidal attempts in trains in Japan**

Hiroshi Kadotani

Center for Genomic Medicine, Kyoto University Graduate School of Medicine, Japan

## AS-28 Abstract Symposium 28

October 19 (Wed.)

16:00-18:00 Room C-2

### Neural connectivity in sleep and wake states

*Organizer / Chairperson:*

**Philippe Peigneux**

Neuropsychology and Functional Neuroimaging Research Unit, Universit Libre de Bruxelles (ULB), Belgium

AS-28-1

**Large-scale functional brain networks in human sleep; insights from EEG/fMRI studies**

Victor I. Spoormaker

RG Neuroimaging, Max Planck Institute of Psychiatry, Germany

AS-28-2

**Sleep shapes small-world properties of subsequent spontaneous waking brain activity**

Ysbrand D. Van Der Werf

Sleep and Cognition, Netherlands Institute for Neuroscience, Netherlands

AS-28-3

PO-2-025

**Decreases in Connectivity between the Centromedian Nucleus of the Thalamus and the Neocortex during Human Slow-Wave Sleep**

Dante Picchioni

Department of Behavioral Biology, Walter Reed Army Institute of Research, USA

AS-28-4

PO-2-001

**Parvalbumin-positive basal forebrain neurons entrains cortical gamma oscillations and promotes wakefulness: an optogenetic study**

Tae Kim

Department of Psychiatry, Harvard Medical School & VA Boston Healthcare System, USA

AS-28-5

PO-2-002

**Both orexin and ghrelin depolarize the rat laterodorsal and pedunculopontine tegmental neurons via phospholipase C signaling pathway: an in vitro study**

Juhyon Kim

Department of Anatomy and Neurobiology, The University of Tennessee College of Medicine, USA

## AS-29 Abstract Symposium 29

October 20 (Thu.)

10:00-12:00 Room B-2

### Recent Views and Concepts on cellular and molecular mechanisms of sleep-dependent memory processing

*Organizer / Chairperson:*

**Subimal Datta**

Psychiatry/Sleep and Cognitive Neuroscien, Boston University School of Medicine, USA

**AS-29-1**

#### **Gift of Sleep: How Today's Experiences Become Tomorrow's Memories**

Subimal Datta

Psychiatry/Sleep and Cognitive Neuroscience, Boston University School of Medicine, USA

**AS-29-2**

#### **Theta wave phase specific hippocampal reactivation during REM sleep influences synaptic plasticity and learning**

Gina R. Poe

Department of Anesthesiology, University of Michigan, USA

**AS-29-3**

#### **Pontine-wave associated synchronization between hippocampal and amygdala theta waves: a physiological process for sleep-dependent memory processing**

Akihiro Karashima

Graduate School of Information Sciences, Tohoku University, Japan

**AS-29-4**

PO-2-079

#### **Sex and menstrual cycle effects on sleep dependent memory consolidation**

Lisa Genzel

Sleependocrinology, Max Planck Institute of Psychiatry, Germany

**AS-29-5**

PO-2-047

#### **Sleep-dependent mRNA translation consolidates cortical plasticity in vivo**

Julie Seibt

Department of Physiology, University of Bern, Switzerland

**AS-29-6**

PO-2-082

#### **Sleep and memory consolidation in memory champions**

Martin Dresler

Sleep Research, Max Planck Institute of Psychiatry, Germany

## AS-30 Abstract Symposium 30

October 20 (Thu.)

10:00-12:00

Room D

**Understanding the mechanisms for the Sudden Infant Death Syndrome: what we can learn from infant sleep studies**

*Organizer / Chairperson:*

**Rosemary S.C. Horne** The Ritchie Centre, Monash Institute of Medical Research, Monash University, Australia

**AS-30-1**

**Cardiovascular Control and the risk factors for SIDS**

Stephanie R. Yiallourou

Ritchie Centre, Monash Institute of Medical Research, Monash University, Australia

**AS-30-2**

**The importance of arousal from sleep in SIDS**

Rosemary S.C. Horne

The Ritchie Centre, Monash Institute of Medical Research, Monash University, Australia

**AS-30-3**

PO-2-130

**Culture and sleep: How do sleep habits compare between high and low altitude dwelling Bolivian children and a low land Northern European population?**

Catherine M. Hill

Division of Clinical Neuroscience, University of Southampton, UK

## AS-31 Abstract Symposium 31

October 20 (Thu.)

10:00-12:00

Room C-1

**New Look in to Preoptic Area Functions in Sleep**

*Organizer / Chairperson:*

**Hruda Nanda Mallick** DEPARTMENT OF PHYSIOLOGY, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, India

**AS-31-1**

**Re emergence of the preoptic area in sleep regulation**

Hruda Nanda Mallick

DEPARTMENT OF PHYSIOLOGY, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, India

**AS-31-2**

**Sleep to survival: Emerging role of the Preoptic Area networking**

Kamalesh Kumari Gulia

Comprehensive Centre for Sleep Disorders, Sree Chitra Tirunal Institute for Medical Sciences and Technology, India

**AS-31-3**

**Sleep is auto-regulated: Basal fore-brain areas modify sleep as per homeostatic needs**

Velayudhan Mohan Kumar

Comprehensive Centre for Sleep Disorders, Sree Chitra Tirunal Institute for Medical Sciences & Technology, India

AS-31-4

PO-2-033

### **Optogenetic activation of preoptic area GABAergic neurons inhibited activity of orexin neurons**

Yuki Saito

Department of molecular neuroscience and integrative physiology, Kanazawa University, Japan

AS-31-5

PO-2-003

### **Firing properties of the neurons in the amygdala during sleep and wakefulness in rats**

Toshifumi Aoyagi

Faculty of Science and Technology, Fukushima University, Japan

AS-31-6

PO-1-183

### **PITOLISANT, AN INVERSE AGONIST OF THE HISTAMINE H3 RECEPTOR: AN ALTERNATIVE TREATMENT FOR SEVERE EXCESSIVE DAYTIME SLEEPINESS IN CHILDREN WITH NARCOLEPSY**

Patricia Franco

Integrative Physiology of Brain Arousal System, CRNL, INSERM-U1028, CNRS-UMR5292, University Lyon1; Pediatric Sleep Unit, Hôpital Femme Mère Enfant, University Lyon 1; National reference centre for orphan diseases, narcolepsy, idiopathic hypersomnia and Kleine-Levin Syndrome (CNR narcolepsie-hypersomnie), CRNL, INSERM-U1028, CNRS-UMR5292, University Lyon 1, France

## **AS-32 Abstract Symposium 32**

October 20 (Thu.)

10:00-12:00 Room C-2

### **Subcortical Modulation of Slow Oscillations during Sleep**

*Organizer / Chairperson:*

**Juan Mena-Segovia**

Department of Pharmacology, MRC Anatomical Neuropharmacology Unit, University of Oxford, UK

AS-32-1

### **Spike Timing of Pedunculopontine Neurons during Slow Oscillations and their Involvement in the Modulation of Phasic Events during Sleep**

Juan Mena-Segovia

Department of Pharmacology, MRC Anatomical Neuropharmacology Unit, University of Oxford, UK

AS-32-2

### **Noradrenergic Neurons of the Locus Coeruleus are Phase-locked to Cortical Up-Down States during Sleep**

Susan J. Sara

CNRS-LPPA, Collège de France, France

AS-32-3

PO-2-081

### **MEG cortical activity during NREM sleep correlated with improvement of a motor sequence learning**

Masako Tamaki

Department of Neuroinformatics, Advanced Telecommunications Research Institute International, Japan

AS-32-4

PO-2-006

### **Electrophysiological effects of orexin on laterodorsal and pedunculopontine tegmental neurons in rats in vitro**

Takuya Hirao

Division of Bio-Information Engineering, University of Toyama, Japan

## AS-33 Abstract Symposium 33

October 20 (Thu.)

10:00-12:00

Room I

### Advances in Operational Fatigue Risk Management

*Organizer / Chairperson:*

**Torbjorn Akerstedt**      Stress Research, Stockholm University, Sweden

**AS-33-1**

#### **Awake at night - how extreme does sleepiness get?**

**Torbjorn G. Akerstedt**

Stress Research, Stockholm University, Sweden

**AS-33-2**

#### **Recovery Sleep and Napping as Countermeasures to Fatigue: Benefits and Consequences in Industrial Settings**

**Tomohide Kubo**

Health Administration and Psychosocial Factor Research Group, National Institute of Occupational Safety and Health, Japan

**AS-33-3**

#### **The Effectiveness of a Restart Break to Sustain Performance across Consecutive Work Shifts Depends on the Circadian Timing of the Shifts**

**Hans P.A. Van Dongen**

Sleep and Performance Research Center, Washington State University, USA

**AS-33-4**

PO-2-182

#### **Sleeping aboard airplanes: unknown risks**

**Eva-Maria Elmenhorst**

Institute of Aerospace Medicine, German Aerospace Center, Germany

**AS-33-5**

PO-2-169

#### **Sleep and fatigue management in extreme environment: case of solo sailors**

**Rmy Hurdie**

Departement of Sport Science, Université du Littoral Cte d'Opale, France

## LS-6 Luncheon Seminar 6

October 16 (Sun.)

12:00-13:00

Room A

*Chairperson:*

**Hiroshi Itoh**      Psychiatry, The Jikei University School of Medicine, Japan

**LS-6-1**

#### **Treatment of chronic insomnia: An update for 2011**

**Daniel J. Buysse**

Department of Psychiatry, University of Pittsburgh, USA

Sponsored by Astellas Pharma Inc., sanofi-aventis K.K.

## LS-9 Luncheon Seminar 9

October 16 (Sun.)

12:00-13:00

Room D

*Chairperson:*

**Yuichi Inoue**

Japan Somnology Center, Neuropsychiatric Research Institute/  
Department of Somnology, Tokyo Medical University, Japan

LS-9-1

### Sleep disorder in depression and its current management

Jun Ishigooka

Department of Psychiatry, Tokyo Women's Medical University, Japan

Sponsored by Pfizer Japan Inc.

## LS-11 Luncheon Seminar 11

October 17 (Mon.)

12:00-13:00

Room A

*Chairperson:*

**Naoto Yamada**

Department of Psychiatry, Shiga University of Medical Science, Japan

LS-11-1

### Potential of the Melatonin Receptor in the Development of New Therapeutics

Gary K. Zammit

Clinilabs, Inc., Columbia University College of Physicians and Surgeons, USA

Sponsored by Takeda Pharmaceutical Company Limited.

## LS-12 Luncheon Seminar 12

October 17 (Mon.)

12:00-13:00

Room B-1

*Chairperson:*

**Tsuneto Akashiba**

Department of Medicine, Nihon University School of Medicine, Japan

LS-12-1

### Obstructive Sleep Apnoea (OSA) and Type 2 Diabetes: A Sleeping Giant

Paul Zimmet

Baker IDI Heart and Diabetes Institute, Australia

Sponsored by ResMed

## LS-13 Luncheon Seminar 13

October 17 (Mon.)

12:00-13:00

Room B-2

### Wake Promoting Systems in the Brain

*Chairperson:*

**Takeshi Sakurai**

Department of Molecular Neuroscience and Integrative Physiology, Kanazawa  
University Faculty of Medicine, Japan

LS-13-1

### Orexin: A Central Regulator of Wake-Promoting Systems in the Brain

Thomas E. Scammell

Department of Neurology, Harvard Medical School, USA



LS-13-2

## Insomnia: An Imbalance Between Sleep and Wake-Promoting Systems

Thomas Roth

Sleep Disorders and Research Center, Henry Ford Hospital, USA

Sponsored by Merck & Co., Inc.

## LS-14 Luncheon Seminar 14

October 17 (Mon.)

12:00-13:00

Room D

*Chairperson:*

**Yuichi Inoue**

Japan Somnology Center, Neuropsychiatric Research Institute/  
Department of Somnology, Tokyo Medical University, Japan

LS-14-1

### Restless Legs Syndrome

Claudia Trenkwalder

University of Goettingen, Germany

Sponsored by Nippon Boehringer Ingelheim Co., Ltd.

## LS-15 Luncheon Seminar 15

October 17 (Mon.)

12:00-13:00

Room E

*Chairperson:*

**Koichi Hirata**

Department of Neurology, Dokkyo University School of Medicine, Japan

LS-15-1

### Anthropology of One's Sleepless Nights

Makoto Uchiyama

Department of Psychiatry, Nihon University School of Medicine, Japan

Sponsored by Eisai Co., Ltd.

## LS-16 Luncheon Seminar 16

October 17 (Mon.)

12:00-13:00

Room C-1

*Chairperson:*

**Kiyohisa Takahashi**

Japan Foundation for Neuroscience and Mental Health, Japan

LS-16-1

### Systematic reviews and beyond

#### - for the evidence-based treatment of major depression -

Toshiaki Furukawa

Department of Health Promotion and Human Behavior, Kyoto University Graduate School of Medicine /  
School of Public Health, Japan

Sponsored by Pfizer Japan Inc.

## LS-17 Luncheon Seminar 17

October 19 (Wed.)

12:00-13:00

Room A

*Chairperson:*

**Yuichi Inoue**

Japan Somnology Center, Neuropsychiatric Research Institute/  
Department of Somnology, Tokyo Medical University, Japan

**LS-17-1**

### Sleep and risk of Diabetes Mellitus

**Yun Kwok Wing**

Psychiatry, The Chinese University of Hong Kong, China

Sponsored by Nippon Boehringer Ingelheim Co., Ltd.

## LS-18 Luncheon Seminar 18

October 19 (Wed.)

12:00-13:00

Room B-1

### Comorbidities in Sleep Apnoea

*Chairperson:*

**David P. White**

Clinical Professor of Sleep Medicine, Brigham and Women's Hospital, Harvard  
Medical School, MA & Chief Medical Officer, Philips Respironics, PA, USA

**LS-18-1**

### Sleep Apnoea, Type 2 Diabetes and the Metabolic Syndrome

**Mary SM. Ip**

Department of Medicine, Queen Mary Hospital, University of Hong Kong, China

**LS-18-2**

### Sleep Apnoea and Cardiovascular Disease

**Matthew T. Naughton**

Head, General Respiratory and Sleep Medicine Service Dept of Allergy, Immunology and Respiratory  
Medicine, Alfred Hospital & Monash University, Australia

Sponsored by Philips Respironics

## Poster Presentations

Odd number: 13:00-14:00 / Even number: 14:00-15:00

Event Hall

### Worldsleep2011

Date	Poster No.	Category
Oct. 17 (Mon)	PO-1-001 ~ 266	Clinical
Oct. 19 (Wed)	PO-2-001 ~ 118	Basic
	PO-2-119 ~ 230	Sociology

**PO-1-001**

#### **Bidirectional associations between sleep problems and behavioural risk factors**

Peppi Lyytikäinen

Department of Public Health, University of Helsinki, Finland

**PO-1-002** AS-15-3 Presenter

#### **Poor sleep and EEG sleep spindle activity in children and adults with autism**

Roger Godbout

Psychiatry - Sleep Laboratory & Clinic, Université de Montréal, Canada

**PO-1-003** AS-27-4 Presenter

#### **Residual sleep disturbances after remission of major depressive disorder - A 4- year naturalistic follow-up study**

Xin Shirley Li

Psychiatry, The Chinese University of Hong Kong, China

**PO-1-004** AS-14-2 Presenter

#### **Gray matter changes in Brains of Primary Insomnia**

Yong Wan Joong

Department of Neurology, Samsung Medical Center, Korea

**PO-1-005** AS-1-4 Presenter

#### **Night-to-night sleep variability in insomnia patients participating in group CBTI**

Sooyeon Suh

Department of Psychiatry, Department of Sleep Medicine, Stanford University, USA

**PO-1-006**

#### **Withdrawn**

**PO-1-007**

#### **The daytime impact of DSM-5 Insomnia Disorder: comparative analysis of insomnia subtype from the Great British Sleep Survey (n=11,129)**

Colin A. Espie

Institute of Neuroscience & Psychology, College of Medical, Veterinary & Life Sciences, University of Glasgow Sleep Centre, UK

**PO-1-008** AS-1-3 Presenter

#### **Effects of cognitive behavioral therapy on patients with pharmacological treatment-resistant insomnia**

Isa Okajima

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

**PO-1-009**

**Brief Behavioral Therapy for Refractory Insomnia in Residual Depression:  
Assessor-blind, Randomized Controlled Trial**

Norio Watanabe

Department of Psychiatry and Cognitive-Behavioral Medicine, Nagoya City University Graduate School of  
Medical Sciences, Japan

**PO-1-010**

**Efficacy of co-morbid cognitive behavioral therapy for insomnia combined with  
depression prevention program in patients with remit depression**

Kimiyoshi Aoki

Department of Psychiatry, Jikei University School of Medicine, Japan

**PO-1-011**

**Self-help treatment for insomnia symptoms associated with chronic conditions in  
older adults: a randomised controlled trial**

Kevin Morgan

Sleep Research Centre, SSEHS, Loughborough University, UK

**PO-1-012**

**Subjective sleep quality, depression and anxiety in Australian adolescents**

Joanna M. Waloszek

Psychological Sciences, University of Melbourne, Australia

**PO-1-013**

**Evening state Anxiety and autonomic modulation of heart among good sleepers and  
chronic primary insomnia**

Genevive Scavone

Center for advanced research in sleep medicine, Hôpital du Sacré-Coeur de Montréal, Canada

**PO-1-014**

**The course of insomnia and health-related quality of life over two years: a  
longitudinal study in the general population in Japan**

Yoko Komada

Department of Somnology, Tokyo Medical University, Japan

**PO-1-015**

AS-15-5 Presenter

**Efficacy of internet and group administered cognitive behavioral therapy for  
insomnia in adolescents; a pilot study**

Eduard J. de Bruin

Department of Education, University of Amsterdam, Netherlands

**PO-1-016**

AS-1-5 Presenter

**The Clinical trial of group Cognitive Behavior Therapy for Primary Insomnia in  
Outpatients**

Wataru Yamadera

Department of Psychiatry, Jikei University School of Medicine, Japan

**PO-1-017**

**INTERNET ADDICTION AND ITS RELATION TO SLEEP AND DEPRESSION IN  
KOREAN ADOLESCENTS**

Song Ho-Kwang

Department of Psychiatry, Seoul Medical Center, Korea

**PO-1-018**

AS-4-4 Presenter

**Sleep disturbance and attention deficit/hyperactivity symptoms in young adults**

Bogdan I. Voinescu

Department of Psychology, Babes Bolyai University, Romania

**PO-1-019**

**Personality and Mood characteristics in Patients with Psychophysiological Insomnia**

Chae Jung Hoon

Department of Neurology, Samsung Medical Center, Korea

**PO-1-020**

**Insomnia and health-related quality of life in hospitalized diabetic patients**

Kaori Mori

Center for Sleep Medicine, Saiseikai Nagasaki Hospital, Japan /  
Department of Internal Medicine, Saiseikai Nagasaki Hospital, Japan

**PO-1-021**

**Relationship between insomnia and future development of depression**

Naoko Nishitani

Department of Nursing, Sugiyama Jogakuen University, Japan

**PO-1-022**

**Sleep complaints among Finnish adolescents with major depressive disorder**

Anna S. Urrila

Department of Adolescent Psychiatry, Helsinki University Central Hospital, Finland

**PO-1-023**

**Hyperarousal Among Chronic Insomnia Patients and Individuals Prone to Stress-Related Sleep Disturbances**

Chien-Ming Yang

Department of Psychology, National Chengchi University, Taiwan

**PO-1-024**

**Insomnia and quality of life of patients with dementia in long-term care facilities**

Seishi Terada

Department of Neuropsychiatry, Okayama University Graduatet School, Japan

**PO-1-025**

**The relationship between sleep patterns and mental health in elderly people suffering minor depression**

Yoshinori Kitabatake

Academic Institution, Meiji Yasuda Life Foundation of Health and Welfare, Japan

**PO-1-026**

**Association between Depression Symptoms and Insomnia in Small Offices**

Hideko Ishii

School of Nursing, Sugiyama Jogakuen University, Japan

**PO-1-027**

**Analysis of genetic expression in the soft palate of patients with obstructive sleep apnea**

Jeong-Whun Kim

Otorhinolaryngology, Seoul National University Bundang Hospital, Korea

**PO-1-028**

AS-12-4 Presenter

**A genome-wide linkage study in obstructive sleep apnea phenotypes and sub-phenotypes**

Annette Fedson

Center for Sleep and Circadian Neurobiology, University of Pennsylvania, USA

**PO-1-029**

**The Influence of Age on Arousal Density for Obstructive Sleep Apnea Syndrome**

Liang-wen Hang

Sleep Medicine, China Medical University Hospital, Taiwan

**PO-1-030**

**Frequently used sleep questionnaires in genetic and epidemiological research for obstructive sleep apnea: A review**

Annette Fedson

Center for Sleep and Circadian Neurobiology, University of Pennsylvania, USA

**PO-1-031**

**The Prevalence of Sleep Apnea in Pomerania / Germany - Preliminary Results from the SHIP-TREND Study**

Thomas Penzel

Interdisciplinary Center For Sleep Medicine, Charité University Clinic, Germany

**PO-1-032**

AS-2-4 Presenter

**Association between symptoms of sleep-disordered breathing and daytime sleepiness with school-aged children in Japan: A large-scale cross-sectional survey**

Eriko Tsukada

Department of Psychophysiology, National Institute of Mental Health, National Center of Neurology and Psychiatry, Japan

**PO-1-033**

**Prevalence of Restless Leg Syndrome among Adolescent Children in the Tucson Childrens Assessment of Sleep Apnea Study TuCASA**

James L. Goodwin

College of Medicine, University of Arizona, USA

**PO-1-034**

AS-9-5 Presenter

**The Role of Obesity, Different Fat Compartments and Sleep Apnea Severity in Circulating Leptin Levels: The ISAC Study**

Erna S. Arnardottir

Dept of Resp Medicine and Sleep, Landspítali University Hospital, Iceland

**PO-1-035**

**Morbidity prior and after a diagnosis of sleep disordered breathing. A controlled national study**

Poul Professor Jennum

Danish Centre for Sleep Medicine, Glostrup Hospital, 2600 Glostrup, Faculty of Health, University of Copenhagen, Denmark

**PO-1-036**

**Association of worse glycemic control and hypoxemia in middle-aged Chinese patients with type II diabetes and obstructive sleep apnea**

Jamie C. Lam

Division of Respiratory Medicine, Department of Medicine, The University of Hong Kong, Queen Mary Hospital, China

PO-1-037

## **QUALITY OF LIFE IN SLEEP APNEA COMPARED TO CONTROLS**

Sigurur Juliusson

Department of ENT, Landspítali University Hospital, Iceland

PO-1-038

## **Gender differences in the relationships between polysomnography and physical factors in patients with obstructive sleep apnea-hypopnea syndrome**

Hideo Toyoshima

Sleep Medicine, Fukuoka Urasoe Clinic, Japan

PO-1-039

## **Association between sleep disordered breathing (SDB) and psychomotor vigilance task (PVT) in general population: a cross-sectional study**

Sakurako Tanno

Department of Public Health, Ehime University, Japan

PO-1-040

## **Longitudinal Study of sleep breathing disorder(SBD) in the General Population of Korea**

Seung Chul Hong

Department of Psychiatry, The catholic of University, Korea

PO-1-041

## **A Survey on the Management of Sleep Apnea in Europe**

Ingo Fietze

Dept. of Cardiology, Charité - Universitätsmedizin Berlin, Germany

PO-1-042

## **Serum ferritin levels in patients with obstructive sleep apnoea (OSA), compared to the general population. - An epidemiological case-control study-**

Bryndis Benediktsdottir

Medical Faculty, University of Iceland, Iceland

PO-1-043

## **Prevalence of Hypertension in Indonesian Sleep Apnea Patients**

Rimawati Tedjasukmana

Departement of Neurology, RS MEDISTRA, Indonesia

PO-1-044

## **Associations between sleep apnea syndrome and gastroesophageal reflux disease (GERD)**

Akihito Uematsu

Respiratory Internalmedicine, Nihon University School of Medicine, Japan

PO-1-045

## **Prevalence of risk factors for undiagnosed obstructive sleep apnoea is high in truck drivers on UK roads**

Ashleigh J. Filtness

Sleep Research Centre, Loughborough University, Australia

PO-1-046

## **Which factor relates to subjective sleepiness in Japanese snorers? A prospective study based on data collected from the internet**

Tokusei Tanahashi

Department of Psychosomatic Medicine, Kyushu University Hospital, Japan

**PO-1-047**

**Association between snoring and carotid atherosclerosis in non-obese women**

Jinyoung Kim

School of Nursing, University of Pennsylvania, USA

**PO-1-048**

AS-10-4 Presenter

**The effects of body mass index (BMI) on genioglossus motion in awake healthy subjects**

Shaokoon Cheng

Neuroscience Research Australia, University of New South Wales, Australia

**PO-1-049**

**The association of obstructive sleep apnea with single nucleotide polymorphisms located near the CDKN2A/2B loci on chromosome 9p21**

Annette Fedson

Center for Sleep and Circadian Neurobiology, University of Pennsylvania, USA

**PO-1-050**

**Interaction between CO<sub>2</sub> and dorsomedial medullary 5-HT<sub>2</sub> receptor activity in hypoxic ventilatory airway responses**

Mitsuko Kanamaru

Department of Physiology, Showa University School of Medicine, Japan

**PO-1-051**

**Brain functions in response to oral and cognitive tasks assessed by near-infrared spectroscopy in obstructive sleep apnea syndrome**

Kazuya Yoshida

Department of Oral and Maxillofacial Surgery, National Hospital Organization, Kyoto Medical Center, Japan

**PO-1-052**

**PREVALENCE OF PATENT FORAMEN OVALE AND ITS IMPACT ON OXYGEN DESATURATION IN OBSTRUCTIVE SLEEP APNEA**

Edmund M.T. Lau

Woolcock Institute of Medical Research, University of Sydney, Australia

**PO-1-053**

**Association between obstructive sleep apnea and elevated levels of B-type natriuretic peptide in a community based sample of women**

Eva Lindberg

Dept of Medical Sciences, Respiratory Medicine and Allergology, Uppsala university, Sweden

**PO-1-054**

**Common Pre-Motor Drive to Genioglossus and Tensor Palatini Motor Neurons**

John Trinder

School of Psychological Science, University of Melbourne, Australia

**PO-1-055**

**Effect of deep sleep on the regulation of the reproductive function -Assessment of plasma kisspeptin levels in OSAS-**

Tsuguo Nishijima

Department of Laboratory Medicine, Division of Sleep Medicine, Iwate Medical University, Japan



**PO-1-056**

**The Cardiovascular Risks according to the Framingham Heart Study in Patients with Sleep Apnea**

Yasutaka Moritsuchi

Sleep Respiratory center, Kirigaoka Tsuda Hospital, Japan

**PO-1-057**

**Lipocalin-type prostaglandin D synthase (L-PGDS) Is Associated With Obstructive Sleep Apnea**

Yuchi Chihara

Department of Respiratory Medicine, Kyoto University Hospital, Japan

**PO-1-058**

AS-20-3 Presenter

**Sleep bruxism, Sleep Apnea and CPAP compliance: The Icelandic Sleep Apnea Cohort**

Thorarinn Gislason

Faculty of Medicine, University of Iceland,, Iceland

**PO-1-059**

AS-6-3 Presenter

**The severity of OSA is related to the collapsibility of upper airway in expiratory phase**

Ning-Hung Chen

Sleep Center, Pulmonary and Critical Care Medicine, Chang Gung Memorial Hospital, Taiwan

**PO-1-060**

**Role of Carbon Dioxide monitoring during Polysomnography in Paediatric Obstructive Sleep Apnoea (OSA)**

Chloe L. Parsley

Respiratory and Sleep Medicine, Mater Children's Hospital, Australia

**PO-1-061**

**Predictive factors to depression in patients with obstructive sleep apnea syndrome**

Min Ju Kim

Department of Neurology, Ulsan University, Korea

**PO-1-062**

**Desaturation at high altitude in patients with mild obstructive sleep apnea syndrome.**

Takero Fukutome

The director, Fukuoka Sleep Clinic, Japan

**PO-1-063**

**Probing the Dynamics of Interactions between Autonomic Systems during Obstructive Sleep Apnea**

Chia Chi Chen

Sleep Center, Shin Kong Wu Ho-Su Memorial Hospital, Taiwan

**PO-1-064**

**Central Sleep Apnea influenced by position change**

Sunjae Hwang

Department of Neurology, Pusan National University Yangsan Hospital, Korea

**PO-1-065**

**Evaluation of Quality of life and Mood status in Patients with Obstructive Sleep Apnea Syndrome**

Hye Jung Kim

Department of Neurology, Samsung Medical Center, Korea

PO-1-066

## **IS IT IMPORTANT TO IDENTIFY NOCTURNAL WHEEZE IN THE SLEEP LABORATORY?**

Jeremy M. Goldin

DEPARTMENT OF RESPIRATORY & SLEEP MEDICINE, ROYAL MELBOURNE HOSPITAL, Australia

PO-1-067

## **New Significance of Measuring Plasma Vaspin Concentrations in Obstructive Sleep Apnea Syndrome**

Keisuke Hosokawa

Department of Laboratory, Division of Sleep Medicine, Iwate Medical University, Japan

PO-1-068

## **The Role of Sleep Position in Obstructive Sleep Apnea Syndrome in Korean People**

Tae Won Kim

Department of Psychiatry, St.Vincent Hospital, The Catholic University of Korea, Korea

PO-1-069

## **Relationship between reduced lung function and metabolic syndrome in an urban male working population in Japan**

Chikara Yoshimura

Department of Respiratory Care and Sleep Control Medicine, Kyoto University, Japan

PO-1-070

## **Effects of sleep duration and obstructive sleep apnea on serum lipid profiles in working age males in Japan**

Yoshiro Toyama

Department of Respiratory Medicine, Kyoto University Graduate School of Medicine, Japan

PO-1-071

## **Sleep-disordered breathing in patients with motor neuron disease**

Kwang Ki Kim

Department of Neurology, Dongguk University Ilsan Hospital, Korea

PO-1-072

## **The Relationship Between Obstructive Sleep Apnea and Carotid Artery Atherosclerosis**

Jae Wook Cho

Department of Neurology, Pusan National University Yangsan Hospital, Other

PO-1-073

## **Does increasing the ventilatory response to arousal induce genioglossus muscle hypotonia on the resumption of sleep?**

Amy S. Jordan

Psychological Sciences, University of Melbourne, Australia

PO-1-074

## **Transcutaneous CO<sub>2</sub> Decreases During Repetitive Episodes of Apnea and Hypopnea**

Ville P.O. Rimpila

Department of Pulmonology, Tampere University Hospital, Finland

PO-1-075

## **Relationship between arterial stiffness and insulin resistance in obstructive sleep apnea syndrome with metabolic syndrome patients**

Hiromi Mitsubayashi

Division of sleep disorders, NIPPON DENTAL UNIVERSITY HOSPITAL, Japan

**PO-1-076**

**Impact of insomnia and depression in patients with obstructive sleep apnea syndrome**

Hironao Otake

Department of Otorhinolaryngology, Nagoya University Graduate School of Medicine, Japan

**PO-1-077**

**Daytime hypercapnia in patients with sleep apnea hypopnea syndrome**

Wang H. Ling

Department of Respiratory Medicine, Handan Central Hospital, China

**PO-1-078**

**Differential Contribution of REM- and NREM-Related Abnormal Breathing to Daytime Sleepiness in Patients with OSA**

Kazuhiro Yamaguchi

The First Department of Medicine (Respiratory Medicine), Tokyo Women's Medical University Medical Center East, Japan

**PO-1-079**

**Association of Orexin Genes Mutations and Obstructive Sleep Apnea A Multi-Stages Sequential Study**

Wael A. Ahmed

School of Medicine, Second Hospital, Department of Otolaryngology, Fujita Health University, Japan

**PO-1-080**

**Quality and quantity of sleep in patients with COPD admitted to an acute respiratory ward**

Kim L. Ambrogetti

Department of Respiratory & Sleep Disorder, John Hunter Hospital, Australia

**PO-1-081**

**Clinical Features of Respiratory Failure and Heart Failure in Patients with Sleep Disordered Breathing**

Dong X. Song

Department of Respiratory Medicine, Peking University People's Hospital, China

**PO-1-082**

**Relationship between airway volume and sleep-disordered breathing**

Hiroyuki Nakano

Department of Oral and Maxillofacial Surgery, Yamaguchi University, Japan

**PO-1-083**

**Complicated Effects of REM- and NREM-Related Ventilatory Impediments on Minimum SO<sub>2</sub> in OSA Patients**

Shigemitsu Onizawa

The First Department of Medicine, Tokyo Women's Medical University, Japan

**PO-1-084**

**Pathogenesis of Obstructive Sleep Apnoea in Quadriplegia**

Laura L. Gainche

Department of Psychology, University of Melbourne, Australia

**PO-1-085**

**Impact of masked hypertension/morning BP surge in obstructive sleep apnea syndrome**

Seiko Miyata

Department of Biomedical Sciences, Chubu University, Japan

**PO-1-086**

**Differential expression of hemi-chorea in intra-sleep awakenings: evidence from one case of diabetic striatopathy with sleep apnea syndrome**

Alessandra maria Coeytaux

Department of clinical neurosciences-Division of neurology, Geneva University Hospitals-, Switzerland

**PO-1-087**

**Insomnia among sleep apnea patients and controls**

Erla Bjornsdottir

Faculty of Medicine, University of Iceland, Iceland

**PO-1-088**

**Detection of Sleep Apnea in Patients with Atrial Fibrillation using Berlin Questionnaire and Portable Monitoring**

Christoph Schoebel

Department for Cardiology, Center for Sleep Medicine, Charité - Universitätsmedizin Berlin, Germany

**PO-1-089**

AS-10-4 Presenter

**An index based on the Hilbert transform of the airflow signal that assess regularity and quantifies disturbed breathing during sleep**

Javier Diaz

Programa de Fisiologia y Biofisica, Universidad de Chile, Chile

**PO-1-090**

**Clinical performance of the SD-101 for the diagnosis of obstructive sleep apnea syndrome**

Takashi Kanemura

Sleep Medicine, Shiga University of Medical Science, Japan

**PO-1-091**

**Comparison of facial photographic dimensions and bony measurements from MRI in OSA patients**

Kate Sutherland

Centre for Sleep Health and Research, Royal North Shore Hospital, Australia

**PO-1-092**

**Sleep Perception in Chronic Primary Insomniacs, Obstructive sleep Apnea Syndrome Patients, and Healthy volunteers**

Su Jung Choi

Department of Neurology, Samsung Medical Center, Korea

**PO-1-093**

**Application of 3D-CT evaluation of upper airway morphology of OSAS patients for selection of surgical treatment candidates**

Hirotaaka Hara

Department of Otolaryngology, Yamaguchi University Graduate School of Medicine, Japan

**PO-1-094**

**Detection of specific obstruction sites using fluid-structure interaction analysis in children with obstructive sleep apnea syndrome.**

Tomonori Iwasaki

Department of Pediatric Dentistry, Kagoshima University Medical and Dental Hospital, Japan

**PO-1-095**

**A preliminary study of estimating severity for sleep apnea syndrome using a nonwear device (NEMURI SCAN)**

Takamasa Kogure

Paramount Bed Sleep Research Laboratory, PARAMOUNT BED CO. LTD., Japan

**PO-1-096**

**Neurocognitive function in obstructive sleep apnea: a case control study**

Ajantha Raguparan

Sleep and Circadian, Woolcock Institute of Medical Research, Australia

**PO-1-097**

**Development of a diagnostic model for sleep apnea in primary care**

Keith KH. Wong

Department of Respiratory and Sleep Medicine, Royal Prince Alfred Hospital, Australia

**PO-1-098**

**Predictors of weight gain in patients with suspected sleep apnea**

Tarja Saaresranta

Pulmonary Diseases, Turku University Hospital, Finland

**PO-1-100**

**Correlation Analysis between Sleep Videofluoroscopy and Polysomnography**

Woo-Hyun Lee

Department of Rhinology, Seoul national university, Korea

**PO-1-101**

**The Study of Geometric Parametric for the Upper Airway of OSA**

Tzu-I Tseng

Applied Computational Engineering, National Center for High-performance Computing, Taiwan

**PO-1-102**

**Evaluation of Neuromuscular Activity in Patients with Obstructive Sleep Apnea Using Chin Surface Electromyography of Polysomnography**

Jingying Ye

Otolaryngology Head and Neck Surgery, Affiliated Beijing Tongren Hospital, Capital Medical University, China

**PO-1-103**

**Sleep-Apnea Analysis with a New Noninvasive Piezoelectric Sensor**

Shinichi Sato

Department of Cell Physiology, Akita University Graduate School of Medicine, Japan

**PO-1-104**

AS-7-2 Presenter

**Epilepsy and dementia coexist frequently in obstructive sleep apnea syndrome**

Masakazu Wakai

Department of Neurology, Kakegawa Municipal General Hospital, Japan

**PO-1-105**

**Acoustic rhinometry In OSA patients**

Hiroto Moriwaki

Department of Otorhinolaryngology, Asahi General Hospital, Japan

**PO-1-106**

AS-10-5 Presenter

**Oral flow measurement for accurate recognition of respiratory events**

Masaaki Suzuki

Dept. of Otolaryngology, Teikyo University, Japan

**PO-1-107**

**Detection for judging method to move mandible forward in the middle**

Minfang Huang

Department of Orthodontics, People's Hospital of Guangxi Zhuang Autonomous Region, China

**PO-1-108**

**Effects of breathing adjustment on sleepiness and sleep latency**

Hideo Tsugawa

Department of Psychology, Kibi International University, Japan

**PO-1-109**

**Utility of portable device with airflow, oxygen saturation and respiratory effort in the diagnosis of sleep apnea hypopnea syndrome**

Yan Han

Department of Respiratory Medicine, Peking University People's Hospital, China

**PO-1-110**

**PSG Spectral Analysis in OSA participants from a Brazilian population based study: Clinical implications and neural connectivity using Partial Directed Coherence**

Altay Alves Lino de Souza

Department of Psychobiology, Universidade Federal de São Paulo, Brazil

**PO-1-111**

**A Case of Central Sleep Apnea in Chiari Malformation Type I Syndrome**

Takuro Kitamura

Department of Sleep Medicine, Shiga University, Japan

**PO-1-112**

**Polysomnographic findings in patients with obstructive sleep apnea with and without excessive daytime sleepiness**

Khosro Sadeghniaat-Haghighi

Center for Research on Occupational Diseases, Tehran University of Medical Sciences, Iran

**PO-1-113**

**Presumptive Diagnosis of Sleep Apnea via Skype, Cost-effective Access to Sleep Medicine Physician**

Antonio Q. Chan

Chanwell Clinic Institute for Heart & Sleep Disorders, Stanford University School of Medicine, USA

**PO-1-114**

**Can a small change in oximeter averaging time affect the Respiratory Disturbance Index?**

Jackie T. Eritaia

Respiratory and Sleep Medicine, Royal Melbourne Hospital, Australia

**PO-1-115**

**Positive Effect of nasal continuous positive airway pressure on Cerebral Perfusion in Patients with Obstructive Sleep Apnea syndrome**

Kim Jeong Sik

Department of Neurology, Samsung Medical Center, Korea

**PO-1-116**

**What short-term adherence of CPAP therapy should be used to determine its effectiveness on mortality in patients with obstructive/central sleep apnea (OSA/CSA)?**

Hiroshi Nakamura

Sleep Respiratory Center, Nakamura Clinic, Japan

**PO-1-117**

**Improvement in neurocognitive function in compliant continuous positive airway pressure (CPAP) users**

Clarice J. Field

Centre for Integrated Research and Understanding of Sleep, Woolcock Institute of Medical Research, Australia

**PO-1-118**

**One night CPAP withdrawal impairs performance at a driving simulator task faster than sleep restriction to 5 hours with treatment in OSA patients**

Ashleigh J. Filtiness

Sleep Research Centre, Loughborough University, Australia

**PO-1-119**

AS-9-4 Presenter

**Cardiometabolic and neurobehavioural changes after continuous positive airway pressure (CPAP) treatment for OSA: A 12-week randomised sham-controlled study.**

Camilla M. Hoyos

Endocrine and Cardiometabolic Group, Woolcock Institute of Medical Research, Australia

**PO-1-120**

AS-19-3 Presenter

**The effect of continuous positive airway pressure usage on symptoms of obstructive sleep apnea: real effects or expectation of benefit?**

Nathaniel S. Marshall

Sleep Research Group, Woolcock Institute, University of Sydney, Australia

**PO-1-121**

AS-26-2 Presenter

**A Comparative Effectiveness Trial of Continuous Positive Airway Pressure (CPAP) versus Oral Appliance (OA) Therapy in Obstructive Sleep Apnea (OSA)**

Craig L. Phillips

Department of Respiratory & Sleep Medicine, Royal North Shore Hospital, Australia

**PO-1-122**

**Long-term Compliance of CPAP in Patients with Obstructive Sleep Apnea Syndrome**

Kim Min Sung

Department of Neurology, Samsung Medical Center, Korea

**PO-1-123**

AS-19-4 Presenter

**The role of social cognitive theory (SCT) in CPAP adherence: Data from two randomised controlled studies.**

Delwyn J. Bartlett

Sleep & Circadian Research group, Woolcock Institute of Medical Research, Australia

**PO-1-124**

**Transvenous phrenic nerve stimulation improves Cheyne-Stokes respiration in patients with chronic heart failure**

Zhang Xilong

Department of Respiriology, The First Affiliated Hospital of Nanjing Medical University, China

**PO-1-125**

**Effect of CPAP therapy on Neuropsychological Functions for patients with Sleep Apnea Syndrome**

Takao Yamanaka

Department of Medicine, NHO Minami Okayama Medical Center, Japan

**PO-1-126**

**Hours of nightly nasal continuous positive airway pressure use is associated with weight change in patients with OSAHS**

Tsuguo Nishijima

Department of Laboratory Medicine, Division of Sleep Medicine, Iwate Medical University, Japan

**PO-1-127**

AS-19-5 Presenter

**Mask desensitization improves nasal PAP compliance in non-adherent patients with sleep apnea**

Rose C. Wei

Chanwell Clinic Institute for Heart & Sleep Disorders, University of California L.A., USA

**PO-1-128**

**Withdrawn**

**PO-1-129**

**Insomnia among sleep apnea patients before and after treatment with continuous positive airway pressure (CPAP)**

Erla Bjornsdottir

Faculty of Medicine, University of Iceland, Iceland

**PO-1-130**

**Transient increase in interictal spikes after introduction of nasal continuous positive airway pressure for obstructive sleep apnea and epilepsy**

Takefumi Hitomi

Respiratory Care and Sleep Control Medicine, Graduate School of medicine, Kyoto University, Japan

**PO-1-131**

**Early effects of continuous positive airway pressure (CPAP) in a rodent model of allergic rhinitis**

Josep M. Montserrat

Respiratory Medicine, Hospital Clinic Barcelona-University of Barcelona, Spain

**PO-1-132**

**Web-based follow-up of CPAP compliance in Obstructive Sleep Apnea Syndrome**

Josep M. Montserrat

Respiratory Medicine, Hospital Clinic Barcelona-University of Barcelona, Spain

**PO-1-133**

**Treatment effect of continuous positive airway pressure on Attention in untreated patients with obstructive sleep apnea syndrome**

Kim So Hee

Department of Neurology, Samsung Medical Center, Korea



**PO-1-134**

**An Audit of CPAP Titration Studies performed in a Singapore Teaching Hospital Sleep Laboratory**

Sridhar Venkateswaran

Respiratory, Changi General Hospital, Singapore

**PO-1-135**

**The degree of sleep disturbed breathing affects the cardiac supporting effects of bi-level positive airway pressure ventilation in patients with heart failure**

Masayoshi Yoshida

Department of Cardiology, Saiseikai Futsukaichi Hospital, Japan

**PO-1-136**

**Continuous Positive Airway Pressure effect on Adipose Tissue in Obstructive Sleep Apnea**

Sheila Sivam

Respiratory and Sleep Medicine, Woolcock Institute of Medical Research, Australia

**PO-1-137**

**The results of Two-piece palatopharyngoplasty (Two-P4: modified uvulopalatopharyngoplasty) for severe OSAS**

Ichiro Komada

Otorhinolaryngology, Social Insurance Shiga Hospital, Japan

**PO-1-138**

**Effects of Orthognathic Surgery on Airway and Sleep Disordered Breathing**

Asuka Matsushita

Department of Oral and Maxillofacial Surgery, Yamaguchi University, Japan

**PO-1-139**

**Effect of nasal surgery on Japanese OSA patients**

Subaru Watanabe

otorhinolaryngology, Ota sleep disorder center, Ota general hospital, Japan

**PO-1-140**

**The effect of tonsillectomy or adenotonsillectomy on quality of life in pediatric sleep-disordered breathing patients**

Syuhei Yoshida

Department of Otolaryngology, Yamaguchi University Graduate School of Medicine, Japan

**PO-1-141**

**Role of the dentistry and oral-maxillofacial surgery in management of patients with obstructive sleep apnea syndrome by a panel of doctors**

Takayuki Nakai

Dentistry oral - maxillofacial surgery, Tokyo Medical University Hospital, Japan

**PO-1-142**

**Perioperative management in the surgical treatment of OSAS in our hospital**

Hisashi Ooka

Department of Otorhinolaryngology, Kansai Medical School, Japan

**PO-1-143**

**Glycated hemoglobin improvement by oral appliance therapy in obstructive sleep apnea syndrome patients with diabetes mellitus**

Kazuya Yoshida

Department of Oral and Maxillofacial Surgery, National Hospital Organization, Kyoto Medical Center, Japan

**PO-1-144**

**Dental and skeletal changes after long-time oral therapy of obstructive sleep apnea**

Xue-Mei Gao

Department of Orthodontics, Stomatology school and hospital, Peking University, China

**PO-1-145**

**Treatment of obstructive sleep apnea and hypopnea syndrome with oral appliance: long-term follow-up**

Xu Gong

Department of Orthodontics, Peking university school and hospital of stomatology, China

**PO-1-146**

**Comparison between Monoblock and Dualblock type OA (SomnoDent MAS) for the same OSA patients**

Minoru Furuhashi

Dentistry, Furuhashi Sleep-disordered Breathing Research Institute, Japan

**PO-1-147**

**Optimal CPAP pressure as a predictor of oral appliance treatment outcome in OSA**

Kate Sutherland

Centre for Sleep Health and Research, Royal North Shore Hospital, Australia

**PO-1-148**

**Differences between a rigid oral appliance and a semi-rigid appliance for the treatment of Obstructive Sleep Apnea Syndrome**

Hokuto Suga

Department of Oral and Maxillofacial Surgery, Yamaguchi University, Japan

**PO-1-149**

**Multiple assessments improve prediction of oral appliance treatment outcome in OSA: potential importance of patient phenotyping**

Kate Sutherland

Centre for Sleep Health and Research, Royal North Shore Hospital, Australia

**PO-1-150**

**A mandibular advancement appliance therapy for a case with comorbidity of sleep bruxism and mild obstructive sleep apnea**

George Umemoto

Department of Oral and Maxillofacial Surgery, Faculty of Medicine, Fukuoka University, Japan

**PO-1-151**

**Effects of the silensor treatment for the Obstructive Sleep Apnea Syndrome cases**

Mayumi Matsumura

Department of Oral and Maxillofacial Surgery, Yamaguchi University, Japan

**PO-1-152**

**Increased sexual desire with testosterone administration in men with obstructive sleep apnea: An 18-week randomized double-blind placebo controlled study**

Kerri L. Melehan

Sleep Group, Woolcock Institute of Medical Research, Australia

**PO-1-153**

**Sleep Disordered Breathing and long-acting hypnotic use affect daytime physical activity among inpatients with schizophrenia**

Junichi Murakami

Department of Psychiatry, Biwako Hospital, Japan

**PO-1-154**

AS-26-3 Presenter

**Effectiveness of a Nasal Airway Stent on Obstructive Sleep Apnea.**

Makoto Satoh

Sleep Medicine, Tsukuba University, Japan

**PO-1-155**

**The effects of testosterone on ventilatory responses in men with obstructive sleep apnoea - a randomised, placebo controlled trial**

Roo Killick

Endocrine and Metabolic Group, Woolcock Institute of Medical Research, Australia

**PO-1-156**

**Sleep disturbance in pre-school children with obstructive sleep apnoea syndrome**

Rosemary S.C. Horne

The Ritchie Centre, Monash Institute of Medical Research, Monash University, Australia

**PO-1-158**

**Polysomnographic Assessment of Sleep Bruxism in Children with Sleep Related Breathing Disorder**

Sun-Jung Chang

Dept. of Pediatrics, CHA Bundang Medical Center, CHA University, Korea

**PO-1-159**

AS-6-4 Presenter

**Unusually Severe REM Sleep Apnea Hypopnea in a Child, Strengthens Genetic Linkage with Parents**

Antonio Q. Chan

Chanwell Clinic Institute for Heart & Sleep Disorders, Stanford University School of Medicine, USA

**PO-1-160**

**Are children easily predisposed to Obstructive Sleep Apnea?**

Keiko Maeda

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

**PO-1-161**

**A review of indications for polysomnography in children in an Australian sleep laboratory - comparison to AASM recommendations**

Alison Boynton

Respiratory and Sleep medicine, Mater Children's Hospital, Australia

**PO-1-162**

AS-2-3 Presenter

**A Comparison between pre and post-operative sleep structures in pediatric Obstructive Sleep Apnea patients**

Yoichi Nishimura

Department of Otorhinolaryngology, Fujita Health University, Japan

**PO-1-163**

**The circadian rhythm of plasma melatonin concentrations is altered in hypocretin deficient men**

Claire E. H. M. Donjacour

Neurology, Leiden University Medical Center, Netherlands

**PO-1-164**

AS-11-4 Presenter

**Ambulant Skin Temperature Regulation and Sleep Attacks in Narcoleptic Patients**

Rolf Fronczek

Neurology, Leiden University Medical Centre, Netherlands

**PO-1-165**

**Assessment of Hippocampal Volume in patients with Narcolepsy with Cataplexy**

Kim Sun Hwa

Department of Neurology, Samsung Medical Center, Korea

**PO-1-166**

**24-hour Ambulatory Monitoring of Sleep-wakefulness Patterns in Narcolepsy**

Masako Kohsaka

Department of Psychiatry, Ishikane Hospital, Japan

**PO-1-167**

**State space analysis of sleep stage transitions in narcoleptic patients and healthy volunteers**

Christian R. Baumann

Neurology, University of Zurich, Switzerland

**PO-1-168**

**The brain microstructural abnormalities in narcolepsy those cause daytime sleepiness and cataplexy**

Masaki Nakamura

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

**PO-1-169**

**Sleep, sleepiness and vigilance in dopamine- and hypocretin deficient disorders**

Christian R. Baumann

Neurology, University of Zurich, Switzerland

**PO-1-170**

**Differences in findings of nocturnal polysomnography and multiple sleep latency test between narcolepsy and idiopathic hypersomnia**

Yoichiro Takei

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

**PO-1-171**

**The effect of steroid therapy for 2 patients with narcolepsy**

Rie Miyata

Department of Pediatrics, Tokyo-kita social insurance hospital, Japan

**PO-1-172**

**Investigation of binge eating behaviours in narcolepsy.**

Danielle M. Gatti

Psychology, Victoria University, Australia

**PO-1-173**

**New insights in understanding automatic behaviour**

Dorothy Bruck

Social Sciences and Psychology, Victoria University, Australia

**PO-1-174**

**Quality of life in patients with narcolepsy with cataplexy, narcolepsy without cataplexy, and idiopathic hypersomnia without long sleep time**

Akiko Ozaki

School of Nursing, Toho University, Japan

**PO-1-175**

**Injuries and Property Damage due to Smoking in Narcoleptic Patients**

Lois Krahn

Sleep medicine/Psychiatry and Psychology, Mayo Clinic, USA

**PO-1-176**

**Delay of gratification in narcolepsy**

Pierre-Alois Beitinger

Sleep lab, Max Planck Institute of Psychiatry, Germany

**PO-1-177**

**Tolerance and efficacy of sodium oxybate in childhood narcolepsy with cataplexy**

Michel L. Lecendreux

Pediatric Sleep Center, Hospital Robert Debre, France

**PO-1-178**

**Intravenous high dose immunoglobulin treatment in late-onset narcolepsy with cataplexy**

Jl Yeon Jeong

Department of Neurology, Pusan National University Yangsan Hospital, Korea

**PO-1-179**

**Mood, activity, and QOL in patients with behaviorally induced insufficient sleep syndrome and narcolepsy as determined by POMS and QOL26**

Yuji Hashizume

Neuropsychiatry, Kurume University, Japan

**PO-1-180**

**False-positive cases in MSLT by Accumulated Sleep Deficiency**

Tetsuya Kizawa

Department of Laboratory & Sleep Medicine, Iwate Medical University School of Medicine, Japan

**PO-1-181**

**Nocturnal aspect of central hypersomnia patients. Analysis of self-completed questionnaire**

Makoto Honda

Psychiatry and Behavioral Sciences, Sleep Research Project, Tokyo Metropolitan Institute of Medical Science, Japan

**PO-1-182**

**Post Influenza A/H1N1 Hypersomnolence: Report of 2cases and review of the literature**

Kang Doong Woo

Department of Psychiatry, St. Vincent's Hospital, Korea

**PO-1-183**

AS-31-6 Presenter

**PITOLISANT, AN INVERSE AGONIST OF THE HISTAMINE H3 RECEPTOR: AN ALTERNATIVE TREATMENT FOR SEVERE EXCESSIVE DAYTIME SLEEPINESS IN CHILDREN WITH NARCOLEPSY**

Patricia Franco

Integrative Physiology of Brain Arousal System, CRNL, INSERM-U1028, CNRS-UMR5292, University Lyon1; Pediatric Sleep Unit, Hôpital Femme Mère Enfant, University Lyon 1; National reference centre for orphan diseases, narcolepsy, idiopathic hypersomnia and Kleine-Levin Syndrome (CNR narcolepsie-hypersomnie), CRNL, INSERM-U1028, CNRS-UMR5292, University Lyon1, France

**PO-1-184**

**Sustained Attention to Response Task (SART) shows impaired vigilance in a spectrum of disorders of excessive daytime sleepiness**

Mojca K.M. van Schie

Clinical Neurophysiology, Leiden University Medical Centre, Netherlands

**PO-1-185**

**Daytime Sleepiness and Sleep disorders in Patients with allergic rhinitis**

Shintaro Chiba

Sleep & Circadian Neurobiology Lab, Stanford University School of Medicine, USA

**PO-1-186**

**Monozygotic twins concordant for recurrent hypersomnia**

Taro Ueno

Department of Stem Cell Biology, Institute of Molecular Embryology and Genetics, Kumamoto University, Japan

**PO-1-187**

**Sleepy and agitated -Kleine-Levin syndrome misdiagnosed as bipolar disorder: a case report**

Ying Lin

Department of Psychiatry, Mackay Memorial Hospital, Taiwan

**PO-1-188**

**Unusual circadian rhythm and diabetes mellitus in mutant cryptochrome1 transgenic mice**

Satoshi Okano

Research Laboratory for Molecular Genetics, Yamagata University School of Medicine, Japan

**PO-1-189**

**Low birth weight by undernutrition during pregnancy elicits anxiety and depression in male offspring mice**

Noriyuki Shimizu

Department of Integrative Physiology, The University of Tokushima Graduate School, Japan

**PO-1-190**

**The relationship between circadian rhythm sleep disorder and melatonin secretion in angelman syndrome**

Yoshikazu Takaesu

Department of psychiatry, Tokyo Medical University, Japan

**PO-1-191**

AS-27-5 Presenter

**Not current, but recent weather is associated with suicidal attempts in trains in Japan**

Hiroshi Kadotani

Center for Genomic Medicine, Kyoto University Graduate School of Medicine, Japan

**PO-1-192**

**Melatonin and sleep effects on health, behavior problems and parenting stress**

Annette van Maanen

Department of Child Development and Education, University of Amsterdam, Netherlands

**PO-1-193**

**Sleep in children with asthma: results of the PIAMA study**

Annette van Maanen

Department of Child Development and Education, University of Amsterdam, Netherlands

**PO-1-194**

**Long-term sleepiness and fatigue symptoms following moderate/severe traumatic brain injury**

Simon Beaulieu-Bonneau

School of Psychology, Université Laval, Canada

**PO-1-195**

AS-5-3 Presenter

**Timing Non-adherence is Associated with Chronotype in Renal Transplant Recipients**

Hanna Burkhalter

Institute of Nursing Science, Basel University, Switzerland

**PO-1-196**

**A cross-cultural meta-analysis of sleep patterns and problems during adolescence**

Michael Gradisar

School of Psychology, Flinders University, Australia

**PO-1-197**

**Multi-focused study of sleep disorder in Functional dyspepsia**

Motohiro Ozone

Psychiatry, The Jikei university school of medicine, Japan

**PO-1-198**

**Associations Between Sleep and Affective Lability in Adolescents with a Borderline Personality Disorder**

Huynh Christophe

Mood Disorders Clinic (Clinique des troubles de l'humeur), Riviere-des-Prairies Hospital, Canada

**PO-1-199**

**Prospective analysis of sleep problems in chronic rhinosinusitis**

Yuji Ando

Department of Otorhinolaryngology, The Jikei University School of Medicine, Japan

**PO-1-200**

**The role of sleep disturbance and depression in patients with type 2 diabetes**

Akiko Yagi

Division of Endocrinology and Metabolism, Department of Medicine, Shiga university of Medical Science, Japan

**PO-1-201**

**The relationship between digestive symptoms and sleep disorders in outpatients of psychiatric clinics**

Ayako Kuroda

Department of Psychiatry, The Jikei University School of Medicine, Japan

**PO-1-202**

**The interrelationship between headache and sleep**

Young Joo Shim

Department of orofacial pain clinic, Yonsei University, Dental college, Korea

**PO-1-203**

**Sleep, depressive behavior and inflammation in a post myocardial infarct model in the rat**

Roger Godbout

Psychiatry - Sleep Laboratory & Clinic, Université de Montréal, Canada

**PO-1-204**

**Sleep/wake regulation in PPAR  $\alpha$  -knockout mice**

Sachiko Chikahisa

Department of Integrative Physiology, Institute of Health Biosciences, The University of Tokushima Graduate School, Japan

**PO-1-205**

**Lower theta and alpha electroencephalographic activity in young adult female subjects with sleep bruxism: a case control analysis**

Susumu Abe

Department of Oral Care and Clinical Education, The Tokushima University Hospital, Japan

**PO-1-206**

**Treatment of bipolar depression associated with comorbid developmental disorder in adults. Effects of the life rhythm therapy targeted at sleep disturbances**

Kentaro Ooga

Department of Psychiatry, Nihon University School of Medicine, Japan

**PO-1-207**

**The clinical presentation of adolescents with Delayed Sleep Phase Disorder**

Michael Gradisar

School of Psychology, Flinders University, Australia

**PO-1-208**

**Sleep quality in the elderly population with diabetes mellitus, hypertension and hyperlipidaemia**

Brenda L.H. Sim

Yong Loo Lin School of Medicine, National University of Singapore, Singapore

**PO-1-209**

**Quantitative EEG Abnormalities in Idiopathic REM Sleep Behaviour Disorder**

Jessica Rodrigues Brazère

Department of psychology, Université de Montréal, Canada

**PO-1-210**

**REM sleep behavior disorder in psychiatric patient: a case-control study**

Joyce Lam

Department of Psychiatry, The Chinese University of Hong Kong, Other

**PO-1-211**

**Preclinical substantia nigra dysfunction in idiopathic rapid eye movement sleep behavior disorder patients**

Masayuki Miyamoto

Department of Neurology, Dokkyo Medical University School of Medicine, Japan

**PO-1-212**

**Personality trait is not related with the occurrence of REM sleep behavior disorder**

Taeko Sasai

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

**PO-1-213**

**Comparison of polysomnographic findings and REM sleep behavior disorder between patients with progressive supranuclear palsy and those with Parkinson disease**

Takashi Nomura

Department of Neurology, Tottori University, Japan



**PO-1-214**

**Evaluation of contributing factors to restless legs syndrome in migraine patients**

Shiho Suzuki

Department of Neurology, Dokkyo Medical University, Japan

**PO-1-215**

**Appearance of Periodic Limb Movements during Sleep on the night of Continuous Positive Airway Pressure in obstructive apnea syndrome**

Sayaka Okada-Aritake

Department of Somnology, Tokyo Medical University, Japan

**PO-1-216**

**Seasonal or Temperature Change Could Affect Sensory Symptoms of Restless Legs Syndrome (RLS)**

Yasunori Oka

Department of Sleep Medicine, Ehime University Graduate School of Medicine, Japan

**PO-1-217**

**Sleep and Life Quality in untreated patients with Primary RLS**

Yun Su Hwa

Department of Neurology, Samsung Medical Center, Korea

**PO-1-218**

**Association between Irritable Bowel Syndrome and Restless Legs Syndrome in General Population**

Chang-Ho Yun

Department of Neurology, Inha University Hospital, Korea

**PO-1-219**

**Prevalence of Restless Legs Syndrome among patients with Obstructive Sleep Apnea before and after CPAP treatment, compared to the general population**

Bryndis Benediktsdottir

Medical Faculty, University of Iceland, Iceland

**PO-1-220**

**Daytime Somnolence in Patients with Restless Leg Syndrome**

Shin Dong Seog

Department of Neurology, Samsung Medical Center, Korea

**PO-1-221**

**Transcutaneous Carbon Dioxide Levels during Nocturnal Periodic Leg Movements**

Aaro V. Salminen

Sleep Research Unit, Unesta Research Centre, Finland

**PO-1-222**

**Actigraphic assessment of periodic leg movements for patients with restless legs syndrome**

Christian R. Baumann

Neurology, University of Zurich, Switzerland

**PO-1-223**

**Hypocretin (orexin) loss in Alzheimer's Disease**

Rolf Fronczek

Neurology, Leiden University Medical Centre, Netherlands

**PO-1-224**

**Nocturnal disturbances in Parkinson's disease: a validation study of Parkinson's disease sleep scale-2 Japanese version**

Keisuke Suzuki

Department of Neurology, Dokkyo Medical University, Japan

**PO-1-225**

**Sleep alterations in longitudinally assessed Alzheimer's disease patients**

Emma J. Cussans

Nuffield Laboratory of Ophthalmology, University of Oxford, UK

**PO-1-226**

**Sleep characteristics in Mild Traumatic Brain Injury patients**

Samar Khoury

Department of physiology/Neurosciences, Université de Montréal, Canada

**PO-1-227**

**Relationship Between Polysomnographic and Actigraphic Assessment of Sleep Variables in Adults with Late-life Neuropsychiatric or Neurodegenerative Disorders**

Ip K.C. Tony

Chronobiology & Sleep, Brain & Mind Research Institute, Australia

**PO-1-228**

**New EEG Markers of Alzheimer's disease for the Elderly**

Chih-Feng Lin

Department of Applied Mechanics, National Taiwan University, Taiwan

**PO-1-229**

**Comparison of sleep architecture among Alzheimer's disease, dementia with Lewy bodies and mild cognitive impairment**

Hideto Shinno

Department of Neuropsychiatry, Kagawa University School of Medicine, Japan

**PO-1-230**

**PRECIPITATING FACTORS FOR SOMNABULISM: A VIEW FROM PATIENTS' PERSPECTIVE**

Marc-Antoine Labelle

Department of Psychology, Université de Montréal, Canada

**PO-1-231**

**Discriminating between violent and non-violent sleepwalkers: Sensitivity and specificity of Stage 4 sleep**

Antonio Zadra

Psychology, Université de Montréal, Canada

**PO-1-232**

**Sleep and Executive Functioning in Children with Epilepsy**

Catherine M. Hill

Division of Clinical Neuroscience, University of Southampton, UK

**PO-1-233**

**Association between short total sleep time and hypertension- The Skara Sleep Cohort**

Ding Zou

Sleep Disorders Center/Department of Pulmonary Medicine, Sahlgrenska University Hospital, Sweden

**PO-1-234**

**SLEEP-RELATED EATING DISORDER: A SLEEP DISORDER OR MENTAL DISORDER? A CASE REPORT EXPLORING SRED AND THE IMPORTANCE OF SUCH DISTINCTION**

Emily J. Britton

Medical School, St George's Medical School, University of London, UK

**PO-1-235**

**The Single Dose Pharmacokinetic and Pharmacodynamic Profiles of Suvorexant (MK-4305), a Dual Orexin Receptor Antagonist, in Healthy Male Subjects**

Hong Sun

Clinical Research/Clinical Pharmacology, Merck Research Laboratories, Merck & Co., Inc., USA

**PO-1-236**

**A Dual Orexin Receptor Antagonist, MK-6096, in Patients with Primary Insomnia: Randomized, Controlled, Crossover Polysomnography Study**

Kathryn M. Connor

Clinical Research, Neuroscience and Ophthalmology, Merck Research Laboratories, USA

**PO-1-237**

**Preclinical Efficacy of Suvorexant and other Orexin Receptor Antagonists**

Christopher J. Winrow

Neuroscience Department, Merck Research Laboratories, USA

**PO-1-238**

**Characterization of MK-6096: A Novel Dual Orexin Receptor Antagonist for the Treatment of Insomnia**

Christopher J. Winrow

Neuroscience Department, Merck Research Laboratories, USA

**PO-1-239**

AS-22-6 Presenter

**Relative contribution of orexin-1 and orexin-2 receptors to the sleep effects induced by a dual OX1/2R antagonist**

Christine Dugovic

Neuroscience, Johnson & Johnson PRD, USA

**PO-1-240**

**MK-6096, a Dual Orexin Receptor Antagonist, Enhances Sleep Onset and Maintenance as Measured by PSG in Healthy Male Subjects**

Hong Sun

Clinical Research/Clinical Pharmacology, Merck Research Laboratories, Merck & Co., Inc., USA

**PO-1-241**

AS-25-6 Presenter

**Essential Roles of GABA transporter-1 in Controlling Rapid Eye Movement Sleep and Increased Slow Wave Activity after Sleep Deprivation**

Xin-hong Xu

Department of Pharmacology, Shanghai Medical College, Fudan University, China

**PO-1-242**

**Residual sedative effects on next-day alertness and psychomotor performance of bedtime administered antihistamine -Randomized controlled trial-**

Yasuko Katayose

Department of Psychophysiology, National Institute of Mental Health, National Center of Neurology and Psychiatry, Japan

**PO-1-243** AS-11-5 Presenter

**Effects of triazolam were influenced by circadian timing of administration**

Hirokuni Tagaya

Department of Health Science, Kitasato University, School of Allied Health Sciences, Japan

**PO-1-244**

**The Rise and Fall of Zolpidem in Australia**

Nathaniel S. Marshall

Sleep Research Group, Woolcock Institute, University of Sydney, Australia

**PO-1-245**

**THE EFFECTS OF ZOLPIDEM AND TRIAZOLAM, RAMELTEON THE PHYSICAL AND COGNITIVE FUNCTIONS IN HEALTHY, ELDERLY PERSONS**

Sachiko Uemura-Ito

Graduate School of Health Sciences, Akita University, Japan

**PO-1-246**

**Long-term use of hypnotics in Japan**

Minori Enomoto

Department of Psychophysiology, National Institute of Mental Health, National Center of Neurology & Psychiatry, Japan

**PO-1-247**

**Hypnotic drugs improve the first-night effect "of mice after cage change"**

Qi Xu

State Key Laboratory of Medical Neurobiology, Fudan University, China

**PO-1-248**

**Trends in the use of sleep medications by Australian adults**

Yu Sun Bin

Discipline of Psychiatry / CIRUS, University of Sydney, Australia

**PO-1-249**

**Sleep problems and subsequent psychotropic medication:  
A register-linked study with 5-year follow-up**

Peija Haaramo

Hjelt Institute, Department of Public Health, University of Helsinki, Finland

**PO-1-250**

**The Relationship between Selective Serotonin Reuptake Inhibitor and Periodic Limb Movement Syndrome in Depressive Patient**

Zhang Bin

Sleep Medicine Unit, Guang Dong Provincial Mental Health Institute, China

**PO-1-251**

**The Effect of Selective Serotonin Reuptake Inhibitor on the Muscle tone of Rapid Eye Movement Sleep in Depressive Patient**

Zhang Bin

Sleep Medicine Unit, Guang Dong Provincial Mental Health Institute, China

**PO-1-252**

**The change of cognitive function on the next morning after taking mirtazapine 15mg in normal male volunteers**

Mikio Okayasu

Department of Psychiatry, Fudougaoka Hospital, Japan

**PO-1-253**

**The change of sleepiness and sleep latency on the next morning after taking mirtazapine 15mg in normal male volunteers**

Toru Nakajima

Department of Neuropsychiatry, Kyorin University, Japan

**PO-1-254**

**Dopamine D<sub>2</sub> receptors are essential in the maintenance of wakefulness**

Wei-Min Qu

Department of pharmacology, Shanghai Medical College, Fudan University, China

**PO-1-255**

**Ketamine modified Melanin-Concentrating Hormone in rat brain**

Tetsuya Kushikata

Department of Anesthesiology, Hirosaki University, Japan

**PO-1-256**

AS-24-4 Presenter

**Differential roles of orexin receptor-1 and -2 in the regulation of non-REM and REM sleep**

Michihiro Mieda

Department of Molecular Neuroscience and Integrative Physiology, Kanazawa University, Japan

**PO-1-257**

**SLEEP FORENSICS- A Walk On The Wild Side... Or An Avenue For Post-Marketing Analysis of Zolpidem?**

Michel A. Cramer Bornemann

Department of Neurology, Minnesota Regional Sleep Disorders Center, Hennepin County Medical Ctr, USA

**PO-1-258**

**Can minocycline reverse morphine-induced respiratory depression in obstructive sleep apnea patients?**

David Wang

Sleep Group, Woolcock Institute of Medical Research, Sydney University, Australia

**PO-1-259**

**The effect of low-dose oral Quetiapine on sleep and cognitive in adults**

Yuichiro Sagara

Department of Local Psychiatric Practice, Shiga University of Medical Science, Japan

**PO-1-260**

**Crocinn promotes non-rapid eye movement sleep in mice**

Kosuke Aritake

Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

**PO-1-261**

**Clinical Trial on Herbal Treatment of Primary Insomnia - A Randomized Placebo-Controlled Study**

Wai Man Mandy Yu

Psychiatry, The Chinese University of Hong Kong, China

**PO-1-262**

**Anti-NMDA receptor antibody positive patients with various psychiatric and sleep symptoms**

Takashi Kanbayashi

Neuropsychiatry, Akita University, Japan

**PO-1-263**

**The neuroprotective effect of minocycline for ischemic injury in neuronal cell**

Kiyoshi Kikuchi

Department of Neurosurgery, Kurume University, Japan

**PO-1-264**

**Ramelteon induces acute sleepiness on the patients who have the tendency of seasonal affective disorder**

Toru Nakajima

Department of Neuropsychiatry, Kyorin University, Japan

**PO-1-265**

**Effects of synthetic cannabinoids, cannabicyclohexanol and JWH-018, on electroencephalogram power spectra and locomotor activity in rats**

Nahoko Uchiyama

Division of Pharmacognosy, Phytochemistry and Narcotics, National Institute of Health Sciences, Japan

**PO-1-266**

**Adherence and Effectiveness of Positional Therapy for Obstructive Sleep Apnea Syndrome**

Keith W. Fridel

Department of Psychology, University of Arizona, USA

**PO-2-001**

AS-28-4 Presenter

**Parvalbumin-positive basal forebrain neurons entrains cortical gamma oscillations and promotes wakefulness: an optogenetic study**

Tae Kim

Department of Psychiatry, Harvard Medical School & VA Boston Healthcare System, USA

**PO-2-002**

AS-28-5 Presenter

**Both orexin and ghrelin depolarize the rat laterodorsal and pedunculopontine tegmental neurons via phospholipase C signaling pathway: an in vitro study**

Juhyon Kim

Department of Anatomy and Neurobiology, The University of Tennessee College of Medicine, USA

**PO-2-003**

AS-31-5 Presenter

**Firing properties of the neurons in the amygdala during sleep and wakefulness in rats**

Toshifumi Aoyagi

Faculty of Science and Technology, Fukushima University, Japan

**PO-2-004**

AS-25-5 Presenter

**Physiological significance of serotonergic inhibitory inputs to orexin neurons**

Sawako Tabuchi

Cell Signaling, NIPS, Japan

**PO-2-005**

**Exploring the thalamus across the natural sleep-wake cycle and its role in somatosensory processing**

Nadia Urbain

Laboratory of Sensory Processing, École Polytechnique Fédérale de Lausanne, Switzerland

**PO-2-006**

AS-32-4 Presenter

**Electrophysiological effects of orexin on laterodorsal and pedunculopontine tegmental neurons in rats in vitro**

Takuya Hirao

Division of Bio-Information Engineering, University of Toyama, Japan

**PO-2-007**

**Burstic eye movements during paladoxical sleep were not under the control of superior colliculus**

Keiko Ogawa

Faculty of integrated sciences and arts, Hiroshima University, Japan

**PO-2-008**

AS-24-5 Presenter

**Substance P depolarizes sleep-active cortical neurons and induces EEG synchronization**

Jaime E. Heiss

Biosciences Division, SRI International, USA

**PO-2-009**

**Sleep deprivation and effect of nitric oxide, endogenous opioid ligands, and melatonin on gastric mucosal damage in rats**

Khosro Sadeghniat-Haghighi

Center for Research on Occupational Diseases, Tehran University of Medical Sciences, Iran

**PO-2-010**

**Effects of stimulation of median raphe nucleus on stress and stress-induced sleep alterations**

Yi-Tse Hsiao

School of Veterinary Medicine, National Taiwan University, Taiwan

**PO-2-011**

**The myelin mutant taiep rat as a model of narcolepsy-cataplexy**

Jose R. Eguibar

Provost Office and Institute of Physiology, B. Universidad Autnoma de Puebla, Mexico

**PO-2-012**

**Short-term homeostasis and the NREM/REM alternation within sleep architecture in the rat**

Ennio A. Vivaldi

Programa de Fisiologia y Biofisica, Universidad de Chile, Chile

**PO-2-013**

AS-18-3 Presenter

**Lower brain activity during sleep and wakefulness; induced by exposure to long maternal separation and chronic mild stress in rats**

Jelena Mrdalj

Department of Biological and Medical Psychology, University of Bergen, Norway

**PO-2-014**

**REM sleep recognition based on neuronal synchrony using time-frequency interference analysis of EEG recordings in the rat**

Ennio A. Vivaldi

Programa de Fisiologia y Biofisica, Universidad de Chile, Chile

**PO-2-015**

**COMMON CARDIAC RESPONSE TO RESTRAINT STIMULI IN RAT AND MOUSE DURING EARLY POSTNATAL PERIOD**

Jun Tokunaga

Department of Neuropsychiatry, Akita University, Japan

**PO-2-016**

**Preterm Birth Alters Autonomic Blood Pressure Control During Sleep In infancy**

Stephanie R. Yiallourou

Ritchie Centre, Monash Institute of Medical Research, Monash University, Australia

**PO-2-017**

**POOR SLEEP AND CARDIOVASCULAR FUNCTION IN CHILDREN**

Silja Martikainen

Institute of Behavioural Sciences, University of Helsinki, Finland

**PO-2-018**

**Fractal Heart Rate Dynamics during Sleep in Patients with Chronic Fatigue Syndrome**

Fumiharu Togo

Educational Physiology Laboratory, The University of Tokyo, Japan

**PO-2-019**

**Alteration in the autonomic nervous system activity of extremely premature infants during early neonatal period**

Esmot Ara Begum

Clinical Research Institute, National Hospital Organization, Miechuo Medical Center, Japan

**PO-2-020**

**Heart rate variability can be used to estimate sleepiness-related decrements in psychomotor vigilance**

Eric CP. Chua

Program in Neuroscience and Behavioral Disorders, Duke-NUS Graduate Medical School, Singapore

**PO-2-021**

**Correlation of brain activity and heart rate time courses during nocturnal sleep: A pilot study**

Jong Won Kim

School of Physics, The University of Sydney, Australia

**PO-2-022**

**Haemodynamic coupling of electrographic transients during non-REM sleep**

David T. Rollings

Dept of Neurophysiology & Birmingham University Imaging Centre, University of Birmingham, UK

**PO-2-023**

**Effects of intensive exercise on physiological responses during sleep**

Kohei Shioda

Graduate School of Sport Sciences, Waseda University, Japan

**PO-2-024**

**Effect of single bout moderate intensity 1-hr aerobic exercise at night on following night sleep**

Masashi Ganeko

Graduate School of Sport Sciences, Waseda University, Japan

**PO-2-025**

AS-28-3 Presenter

**Decreases in Connectivity between the Centromedian Nucleus of the Thalamus and the Neocortex during Human Slow-Wave Sleep**

Dante Picchioni

Department of Behavioral Biology, Walter Reed Army Institute of Research, USA



**PO-2-026**

**Association between jaw position and masseter tone during sleep**

Yoshitaka Suzuki

Department of Fixed Prosthodontics, Tokushima University, Japan

**PO-2-027**

AS-20-4 Presenter

**The patterns of close-open jaw movement during sleep in normal subjects**

Kazuo Okura

Department of Fixed Prosthodontics, The University of Tokushima Graduate School, Japan

**PO-2-028**

**Brain activity markers of sleep correlate with performance during a subsequent extended wakefulness challenge**

Angela L. Denotti

Sleep and Circadian Research Group / CIRUS, Woolcock Institute of Medical Research, Australia

**PO-2-029**

**Frontal brain network activity depends on sleep**

Ysbrand D. Van Der Werf

Sleep and Cognition, Netherlands Institute for Neuroscience, Netherlands

**PO-2-030**

**The relationship between the polysomnographic sleep state and the subjective quality of wakefulness**

Kazuhiro Hatta

Department of Design Engineering and Management, Graduate School of Science and Technology, Kyoto Institute of Technology, presently Panasonic Electric Works, Japan

**PO-2-031**

**Topographically enhanced slow spindles in medicated depressive patients**

Yusaku Nakashima

Advanced Material Laboratory, Sony Corporation, Japan

**PO-2-032**

**SENSORY INPUT AND SLEEP, REVISITED**

Ricardo A. Velluti

HOSPITAL DE CLINICAS, UNIVERSIDAD DE LA REPUBLICA, Uruguay

**PO-2-033**

AS-31-5 Presenter

**Optogenetic activation of preoptic area GABAergic neurons inhibited activity of orexin neurons**

Yuki Saito

Department of molecular neuroscience and integrative physiology, Kanazawa University, Japan

**PO-2-034**

AS-23-4 Presenter

**Feeding-induced cataplexy and c-Fos expression in brain areas projecting to the brainstem in orexin knockout mice**

Yo Oishi

Department of Neurology, E/CLS-717, Beth Israel Deaconess Medical Center and Harvard Medical School, USA

**PO-2-035**

**NR6A1 regulates hypocretin/orexin transcription**

Susumu Tanaka

Department of Psychiatry and Behavioral Science, Sleep Control Project, Tokyo Metropolitan Institute of Medical Science, Japan

**PO-2-036**

**Orexin changes in experimentally immunized rats by TRIB2**

Susumu Tanaka

Sleep Research Project, Tokyo Metropolitan Institute of Medical Science, Japan

**PO-2-037**

**Dopaminergic sleep regulation in *Drosophila melanogaster***

Taro Ueno

Department of Stem Cell Biology, Institute of Molecular Embryology and Genetics, Kumamoto University, Japan

**PO-2-038**

**Sleep alterations in humanized P2rx7 mice - validating a susceptibility marker for depression**

Vladimira Jakubcakova

Neurogenetics of Sleep, Max Planck Institute of Psychiatry, Germany

**PO-2-039**

**The involvement of CRH-R1 in stress-induced REM sleep rebound**

Christoph P.N. Romanowski

Neurogenetics of Sleep, Max Planck Institute of Psychiatry, Germany

**PO-2-040**

**Lacking purinergic P2X7 receptor (P2X7R) influences baseline sleep but not responses to sleep loss and an immune challenge in mice**

Mayumi Kimura

Neurogenetics of Sleep, Max Planck Institute of Psychiatry, Germany

**PO-2-041**

**Is enhanced REM sleep in conditional CRH-overexpressing mice due to cholinergic activation?**

Maria Letizia Curzi

Neurogenetics of Sleep, Max Planck Institute of Psychiatry, Germany

**PO-2-042**

**Chronic mild stress and acute sleep deprivation: interactive and brain-region specific effects on regulation of translation factor and CPEB phosphorylation**

Janne Gronli

Department of Biological and Medical Psychology, University of Bergen, Norway

**PO-2-043**

AS-23-3 Presenter

**Vesicular Nucleotide Transporter is Dominantly Express in Sleep-Wake Centers of the Central Nervous System**

Elizabeth K. Mitamura

Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

**PO-2-044**

**A novel SOX5 splicing isoform expressed in mouse brain during sleep**

Nanae Nagata

Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

**PO-2-045**

AS-7-3 Presenter

**The role of prostaglandin D2 in causing post-ictal sleep following seizures**

Mahesh K. Kaushik

Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

**PO-2-046**

**Cholinergic signaling regulates Arc/Arg3.1 protein expression and degradation in SH-SH5Y cells and cultured hippocampal slices**

Jonathan Soule

Department for Biomedicine, University of Bergen, Norway

**PO-2-047**

AS-29-5 Presenter

**Sleep-dependent mRNA translation consolidates cortical plasticity in vivo**

Julie Seibt

Department of Physiology, University of Bern, Switzerland

**PO-2-048**

**REM sleep plays a role in ocular dominance plasticity consolidation**

Michelle C. Dumoulin

Department of Neuroscience, University of Pennsylvania, USA

**PO-2-049**

AS-25-4 Presenter

**Basal forebrain histamine: increases during wakefulness, induces wakefulness and activates the cortex**

Janneke C. Zant

Institute of Biomedicine/Physiology, University of Helsinki, Finland

**PO-2-050**

**GLUTAMATE MICROINJECTION IN THE MEDIAL SEPTUM ENHANCES SLOW WAVE SLEEP AND DECREASES PARADOXICAL SLEEP IN RATS**

Didhiti Mukherjee

Department of Physiology, All India Institute of Medical Sciences, India

**PO-2-051**

**Basal forebrain cholinergic neurons and nitric oxide-mediated regulation of sleep homeostasis**

Anna Kalinchuk

Harvard Medical School, Harvard University, USA

**PO-2-052**

**Novel mouse models for the investigation of neuronal-glial immune interactions**

Mark R. Opp

Anesthesiology & Pain Medicine, University of Washington, USA

**PO-2-053**

AS-12-5 Presenter

**Depressed Mood, Chronic Short Sleep, and 5HTTLPR Polymorphism: Preliminary Report of a Gene X Environment Interaction**

Mary A. Carskadon

Department of Psychiatry & Human Behavior, Brown University, USA

**PO-2-054**

**Genome-wide association study of sleep duration or self-perceived insufficient sleep in Japanese populations**

Emi Morita

Department of Preventive Medicine, Nagoya University Graduate School of Medicine, Japan

**PO-2-055**

**Association of SLC6A4 and 5-HTR2A Gene Polymorphisms with Different Phenotype Obstructive Sleep Apnea in Chinese Han Population**

Jingying Ye

Otolaryngology Head and Neck Surgery, Affiliated Beijing Tongren Hospital, Capital Medical University, China

PO-2-056

## **The Relationship Between Chronotype and Sleep in Chinese Students at Elementary and Senior High Schools**

Jingwei Liu

Graduate School of Human Environmental Science, Fukuoka Women's University, Japan

PO-2-057

## **Do D-neurons produce psychostimulants?**

Keiko Ikemoto

Department of Neuropsychiatry, Fukushima Medical University School of Medicine, Japan

PO-2-058

## **Circadian CLOCK T3111C Polymorphism Associated with Individual Differences in Executive Functioning, Sleepiness and Mood During Sleep Restriction**

Namni Goel

Department of Psychiatry, University of Pennsylvania School of Medicine, USA

PO-2-059

AS-5-4 Presenter

## **Animal models of human sleep-wake cycle: non-SCN circadian behavior rhythms in rodents**

Akiyo Kameyama

Department of Physiology, Hokkaido University, Japan

PO-2-060

AS-22-5 Presenter

## **Non-circadian direct effects of light on sleep and alertness are mediated via several hypothalamic pathways including the SCN and the VLPO**

Patrice Bourgin

Sleep clinic and Neuroscience Institute, CNRS and University of Strasbourg, France

PO-2-061

## **Chronic light as a potential regulator of sleep: direct perturbation of sleep homeostasis in arrhythmic mice**

Genshiro Sunagawa

Laboratory for Systems Biology, RIKEN Center for Developmental Biology, Japan

PO-2-062

AS-22-4 Presenter

## **Prostaglandin D2 produced by Lipocalin-type Prostaglandin D Synthase in the leptomeninges of the brain is involved in sleep regulation**

Yoan Chrasse

Department of Molecular Behavioral Biology, Osaka Bioscience Institute, Japan

PO-2-063

## **Mice lacking heat shock factor 1 show evening-type sleep/wake rhythm**

Hiroyoshi Sei

Department of Integrative Physiology, Tokushima University, Japan

PO-2-064

AS-7-4 Presenter

## **Kindling stimuli delivered at distinct zeitgeber time points alter homeostatic factor and circadian rhythm differently**

Pei-Lu Yi

Department of Veterinary Medicine, National Taiwan University, Taiwan / Department of Sports, Health & Leisure, Aletheia University, Taiwan

**PO-2-065**

**Withdrawn**

**PO-2-066**

**Non-REM Sleep Stage Transitions Control Ultradian REM Sleep Rhythm**

Akifumi Kishi

Department of Medicine, New York University School of Medicine, USA

**PO-2-067**

AS-17-3 Presenter

**Human circadian rhythm polymorphisms are correlated with climate**

Brian E. Cade

Sleep Medicine, Brigham and Women's Hospital / Harvard Medical School, USA

**PO-2-068**

**Circadian distribution of CSF inosine and histamine levels in humans**

Ulf Kallweit

Department of Neurology, University Hospital Zurich, Switzerland

**PO-2-069**

AS-3-3 Presenter

**Effect of scheduled physical exercise on re-entrainment of human circadian rhythms to 8 h advanced sleep schedule in isolation facility**

Yujiro Yamanaka

Department of Physiology, Hokkaido University Graduate School of Medicine, Japan

**PO-2-070**

AS-3-4 Presenter

**Effects of single exposure to evening blue light on latency to persistent sleep, slow wave activity, melatonin production and cognitive performance**

Carmen Irma Garcia

Department of Interdisciplinary Sleep Medicine, Charité Universitätsmedizin Berlin, Germany

**PO-2-071**

**Diurnal variation in Positive and Negative Affect Scale**

Mizuho Tanaka

Human Health Sciences, Graduate School of Medicine, Kyoto University, Japan

**PO-2-072**

**Evaluation of Heart Rate Variability and Respiratory Variability during Sleep Using a Lorenz Plot**

Akihiro Deguchi

Graduate School of Science and Engineering, Ritsumeikan University, Japan

**PO-2-073**

**Seasonal differences of sleep and melatonin concentration in obese subjects in Japan**

Maki Sato

Department of Physiology, Aichi Medical University, Japan

**PO-2-074**

**Effects of 1-Oleoyl-2-docosahexaenoyl phosphatidylcholine (PC-DHA) upon REM sleep in human study**

Toshinori Kobayashi

Ashikaga Sleep Research Center, Ashikaga Institute of Technology, Japan

**PO-2-075**

**The relationship between chronotype and diurnal variation of taste threshold**

Ayako Yamashina

Graduate School of Human Environmental Science, Fukuoka Women's University, Japan

**PO-2-076**

**Diurnal Variation in Responses of Melanopsin-Expressing Retinal Ganglion Cells to Light in the Human Retina**

Yumi Fukuda

Department of Living Environmental Science, Fukuoka Women's University, Japan

**PO-2-077**

**Withdrawn**

**PO-2-078**

**Chronic sleep restriction alters sleepiness, sleep amount, neurochemistry, and spatial memory in rats**

Robert E Strecker

Research Service and Psychiatry, VABHS & Harvard Medical School, USA

**PO-2-079**

AS-29-4 Presenter

**Sex and menstrual cycle effects on sleep dependent memory consolidation**

Lisa Genzel

Sleependocrinology, Max Planck Institute of Psychiatry, Germany

**PO-2-080**

**NMDA receptor agonist facilitates sleep-independent synaptic plasticity associated with enhancement of working memory capacity**

Takuya Yoshiike

Department of Adult Mental Health, National Institute of Mental Health, National Center of Neurology and Psychiatry, Japan

**PO-2-081**

AS-32-3 Presenter

**MEG cortical activity during NREM sleep correlated with improvement of a motor sequence learning**

Masako Tamaki

Department of Neuroinformatics, Advanced Telecommunications Research Institute International, Japan

**PO-2-082**

AS-29-6 Presenter

**Sleep and memory consolidation in memory champions**

Martin Dresler

Sleep Research, Max Planck Institute of Psychiatry, Germany

**PO-2-083**

**Sleep extinguishes false perception acquired by learning of visual-tactile integration**

Motoyasu Honma

Department of Adult Mental Health, National Center of Neurology and Psychiatry, Japan

**PO-2-084**

**Implicit learning is persistent even in a drowsy condition**

Kosuke Kaida

Human life technology research institute, National Institute of Advanced Industrial Science and Technology, Japan

**PO-2-085**

**Alteration of EEG spectral power during sleep after motor learning**

Yuko Morita

Graduate School of Sport Sciences, Waseda University, Japan

**PO-2-086**

**Contribution of a nap to the consolidation of declarative and procedural memories**

Kaoru Tao

Graduate School of Integrated Arts and Sciences, Hiroshima University, Japan

**PO-2-087**

**The Relationship between School Achievement and Sleep among Elementary and Junior High School Students in Okinawa**

Yosiaki Sasazawa

Faculty of Education, University of Ryukyus, Japan

**PO-2-088**

**Effects of Naps, and Head Massages on Improving Memory and Reducing False Memory in Young Adults**

Thiti Raseekul

College of Research Methodology and Cognitive Science, Burapha University, Thailand

**PO-2-089**

**Impaired sleep-dependent procedural memory consolidation was associated with fast spindle activity in medicated depressive patients**

Masaki Nishida

Section of Psychiatry and Behavioral Science, Tokyo Medical and Dental University, Japan

**PO-2-090**

**Which cerebral activity differentiates Dreamers from Non-Dreamers?**

Perrine Ruby

Brain Dynamics and Cognition Team, Lyon Neuroscience Research Center, France

**PO-2-092**

**Association between frequency of bad dreams and depressive symptom among Middle-Aged and Elderly Adults in the Community**

Misa Takegami

Department of Preventive Medicine and Epidemiology, National Cerebral and Cardiovascular Center, Japan

**PO-2-093**

**Recurrent Dreams and Bad Dreams in Children: A Longitudinal Investigation**

Aline Gauchat

psychology, University of Montreal, Canada

**PO-2-094**

**Sexual content of men and women's dreams**

Antonio Zadra

Psychology, Université de Montréal, Canada

**PO-2-095**

**Sleep Architecture in Synomologus Macaque Across a 24-h Light and Dark Period**

Kazuki Honda

Sleep Science Laboratories, Hamri Co., Ltd., Japan

**PO-2-096**

**Noninvasive detection of sleep/wake changes in orexin/ataxin-3 transgenic mice across the disease onset**

Yohei Sagawa

Department of Neuropsychiatry, Akita University, Japan

**PO-2-097**

**Catecholaminergic drugs modify the narcolepsy-cataplexy episodes in mutant taiep rat**

Ma. del Carmen Cortes

Institute of Physiology, B. Universidad Autnoma de Puebla, Mexico

**PO-2-098**

**Sex-specific associations between sleep problems and hypothalamic-pituitary-adrenocortical axis activity in children**

Anu-Katriina Pesonen

Institute of Behavioral Sciences, University of Helsinki, Finland

**PO-2-099**

**Clinical significance of long-term home monitoring of fetal movement during sleep in two high-risk pregnant women**

Kyoko Nishihara

Fatigue and Working Life Research Group, Institute for Science of Labour, Japan

**PO-2-100**

**The Discrepancy between Actigraphic and Sleep Diary Measures of Sleep in Adolescents**

Michelle A. Short

School of Psychology, Flinders University, Australia

**PO-2-101**

**Sleep latency on MSLT in healthy young adult-Comparison between 7-hour sleep and 3-hour sleep-**

Yumi F Nakabayashi

Graduate School of Health Care Science, Bunkyo Gakuin University, Japan

**PO-2-102**

**Vigilant attention in sleep wake disorders: norm values on the psychomotor vigilance task (PVT)**

Esther Werth

Department of Neurology, University Hospital Zurich, Switzerland

**PO-2-103**

**Detecting deteriorated performance using percentage of eyelid closure time during Oxford sleep resistance tests**

Takashi Abe

Japan Somnology Center, Neuropsychiatric Research Institute, Japan

**PO-2-104**

**ELECTROCARDIOGRAM-BASED MEASURE OF SLEEP STATE INSTABILITY PREDICTS SLOWER REACTION TIME IN PSYCHOMOTOR VIGILANCE TASK: A PRELIMINARY STUDY**

Hyun Kim

Institute of Human Genomic Study, Korea University Medical Center Ansan Hospital, Korea



**PO-2-105**

**The pattern of breast breath during sleep onset period**

Maki Furutani

The Graduate School of Human Life Sciences, Notre Dame Seishin University, Japan

**PO-2-106**

**Normalization and case-specific definition of EEG bands in spectrograms for improving visualization and automated scoring of sleep studies**

Ennio A. Vivaldi

Programa de Fisiología y Biofísica, Universidad de Chile, Chile

**PO-2-107**

**The detection of EEG feature of sleep stage 2 by a new scoring system**

Mitsuo Hayashi

Graduate School of Integrated Arts and Sciences, Hiroshima University, Japan

**PO-2-108**

**An attempt of sleep monitoring using a non-invasive and ambulatory cardiac measurement on a beat-by-beat basis**

Mitsuhiro Ogawa

Graduate School of Science and Engineering, Kanazawa University, Japan

**PO-2-109**

**Investigation of sleep stage identifying algorithm for sleep monitoring system by detecting human originated low-frequency signal in unrestraint way**

Takafumi Atsumi

New Business Planning Dept., AISIN SEIKI Co.,Ltd, Japan

**PO-2-110**

**Relations between Sleep Activity Indices and Verran and Snyder-Halpern (VSH) Sleep Scale using Statistical Analysis**

Ya-Ting C. Yang

Institute of Education & Center for Teacher Education, National Cheng Kung University, Taiwan

**PO-2-111**

**Using a Wearable Physical Activity Sensor System for Sleep/Wake States Detection**

Jeen-Shing Wang

Electrical Engineering, National Cheng Kung University, Taiwan

**PO-2-112**

**Can handheld device accurately measure sleep parameters? Comparison of actigraph, sleep diary and electronic sleep diary application**

Rmy Hurdiel

Département of Sport Science, Université du Littoral Cte d'Opale, France

**PO-2-113**

**A long-term sleep monitoring of the elderly with dementia using a nonwear actigraphy device (NEMURI SCAN)**

Tomoko Inoue

Paramount Bed Sleep Research Laboratory, PARAMOUNT BED CO. LTD., Japan

**PO-2-114**

**Development of a network system for long-term sleep monitoring at home and its application to medical care for cardiovascular disease**

Kosuke Motoi

Graduate School of Natural Science and Technology, Kanazawa University, Japan

**PO-2-115**

**High Recall Actigraphic Sleep/Wake Detection based on Statistical Classification**

Ken Kawamoto

Central Research Lab., Hitachi, Ltd., Japan

**PO-2-116**

**Agreement of Actigraphic Sleep/Wake States between Actiwatch and Actigraph**

Haruka F. Suzuki

Graduate School of Health Care Science, Bunkyo Gakuin University, Japan

**PO-2-117**

**Estimating sleep cycle using occurrence rate of body movements**

Yuta Kambayashi

Advanced Information Science and Engineering Major, Ritsumeikan University, Japan

**PO-2-118**

**Prediction Model of Light-induced Melatonin Suppression**

Yoshika Takahashi

Department of Design, Chiba University, Japan

**PO-2-119**

**Sleep education by using self-help treatment for Junior high school students in Japan**

Hideki Tanaka

Department of clinical Psychology, Hiroshima International University, Japan

**PO-2-120**

**Therapeutic outcome by two-months intensive circadian rhythm treatments in Japanese children and adolescents with chronic fatigue**

Seiki Tajima

children's sleep and development medical research center, Hyogo rehabilitation central hospital, Japan

**PO-2-121**

**Association between morningness-eveningness chronotype, sleep disturbances and mental health in the university freshmen in Hong Kong**

Wing Yan Joey Chan

Psychiatry, Shatin Hospital, China

**PO-2-122**

**Comparative study on sleep satisfaction and quality of life in healthy students between Japan and Thailand**

Manami Saito

Graduate School of Medicine and Faculty of Medicine Kyoto University, Kyoto University, Japan

**PO-2-123**

**Sleep behavior and risk factors for deterioration of sleep patterns among Japanese middle-school students**

Masako Shigeta

Epidemiology for community health and medicine, Kyoto Prefectural University of Medicine, Japan

**PO-2-124**

**Sleep education by using cognitive behavioral method for teachers of junior high school in Japan**

Norihisa Tamura

Department of Clinical Psychology, Hiroshima International University, Japan

**PO-2-127**

**A Novel Child Sleep Screening Questionnaire: Child and Adolescent Sleep Checklist (CASC)**

Yasunori Oka

Department of Sleep Medicine, Ehime University Graduate School of Medicine, Japan

**PO-2-128**

AS-13-2 Presenter

**Sleep habits and sleep problems in school-aged children in Japan:  
A cross-sectional study**

Shingo Kitamura

Department of Psychophysiology, Natl Ctr of Neurol and Psychiatry Natl Inst of Mental Health, Japan

**PO-2-129**

**Risk factors of sleep disturbance among school children in Japan:  
The 2-year follow-up study**

Emi Yamano

Department of Physiology, Osaka City University of Graduate School of Medicine, Japan

**PO-2-130**

AS-30-4 Presenter

**Culture and sleep: How do sleep habits compare between high and low altitude dwelling Bolivian children and a low land Northern European population?**

Catherine M. Hill

Division of Clinical Neuroscience, University of Southampton, UK

**PO-2-131**

**Sleep habit, circadian typology, mental health, and TV game playing of Czech and Japanese infants aged 5-6 yrs**

Tetsuo Harada

Laboratory of Environmental Physiology, Faculty of Education, Kochi University, Japan

**PO-2-132**

**Effect of psychological stress on nighttime sleep and cortisol response during morning in children**

Madoka Takahara

Faculty of Symbiotic Systems Science, Fukushima University, Japan

**PO-2-133**

**Impact of obligatory daytime nap in Japanese nursery schools on children's nighttime sleep and morning moodiness**

Kazuhiko Fukuda

Department of Psychology, Edogawa University, Japan

**PO-2-134**

AS-16-4 Presenter

**The effect of increasing artificial light levels on rest-activity rhythms of older people living in care homes**

Debra J. Skene

Centre for Chronobiology, University of Surrey, UK

**PO-2-135**

**Correlation between Sleep and Lifestyle Patterns and Stress Hormone Dynamics in the Elderly**

Mitsuyo Komatsu

School of nursing, Kyoto prefectural university of medicine, Japan

**PO-2-136**

**Association of leisure-time, household and work-related physical activity with sleep condition in older adults**

Naruki Kitano

Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan

**PO-2-137**

AS-13-1 Presenter

**The sleep and technology use of Americans: Results from the 2011 National Sleep Foundation's *Sleep in America Poll***

Michael Gradisar

School of Psychology, Flinders University, Australia

**PO-2-138**

**Association between sleep duration and lifestyle-related diseases in Nagahama 0-degree Cohort Study**

Masao Yamaguchi

Center for Genomic Medicine, Kyoto University, Japan / CEO, Amelief Co. Ltd., Japan / Nagahama 0-degree Cohort Study group, Kyoto University, Japan

**PO-2-139**

**Difficulty maintaining sleep and early wake-up times are associated with vascular dysfunction in Japanese healthy individuals**

Mayuko Kadono

Endocrinology, Kyoto Prefectural University of Medicine, Japan

**PO-2-140**

**Comparison of Sleep on Public bathing and Bathing at Home**

Kyoko Sunaga

Graduate School of Medicine and Pharmaceutical Science, University of Toyama, Japan

**PO-2-141**

**Sleep facilitation by Japanese hot spring; EEG, core, proximal, and distal temperature evaluations**

Sachiko Uemura-Ito

Graduate School of Health Sciences, Akita University, Japan

**PO-2-143**

AS-8-5 Presenter

**Promoting Sleep Quality Through Meditation**

Jai Prakash Narain Mishra

Department of Science of Living, P.M. and Yoga, Jain Vishva Bharati University, India

**PO-2-144**

AS-4-3 Presenter

**Media usage as a predictor of irregular sleeping patterns**

Vnnen Teija

Health promotion, Folkhlsan Research Center, Finland

**PO-2-145**

**Better Sleep Proposal for the Future: Learning the Human Aspects from Sleeping Postures Depicted on Picture Scrolls During the Medieval Times**

Michiko Hayama

Department of Beauty Culture, Kamakura Hayami institute of Art, Japan

**PO-2-146**

**Effects of viewing negative affective pictures on nighttime sleep: Latency to sleep stages, the total amount of sleep stages, and rapid eye movement density**

Toshihiko Sato

Health and Social Services, Tohoku Bunka Gakuen University, Japan

**PO-2-147**

AS-3-5 Presenter

**Multi-Colored Effects of LED Light on Cognitive Function and Psychological Parameter in the Evening**

Marie Goto

Department of Medicine, Kyoto University, Japan

**PO-2-148**

**Change in Sleep Quality by Outdoor Air Temperature Rise**

Tomohiko Ihara

Research Institute of Science for Safety and Sustainability, Advanced LCA Research Group, National Institute of Advanced Industrial Science and Technology (AIST), Japan

**PO-2-149**

**Effect of using air conditioner on fatigue and sleep quality**

Hisako Fujii

Dept of Physiology, Osaka City University Graduate School of Medicine, Japan

**PO-2-150**

**Effects of bed mattress material on sleep onset under mild humid heat exposure**

Kazuo Okamoto-Mizuno

Kansei Fukushi Research Center, Tohoku Fukushi University, Japan

**PO-2-151**

**Consumption effect of tyrosine and phenylalanine as precursors of catecholamine on mental health exists not at supper but at breakfast in Japanese infants.**

Osami Akimitsu

Graduate school of integrated art and science, Kochi University, Japan

**PO-2-152**

**Effect of aroma oil on autonomic nervous system in the morning under different light conditions**

Tomoko Wakamura

Graduate school of medicine, Kyoto University, Japan

**PO-2-153**

**Effects of one month intervention program on meal habit, sleep-wake cycle and mental health of Japanese University sport club members**

Kai Wada

Laboratory of environmental physiology, Graduate School of Integrated Arts and Science, Kochi University, Japan

**PO-2-154**

**The Effects of Different Timing of the Evening Meal on Sleep EEG and Subjective Sleep among Young Athletes**

Keiko Kohama

Graduate School of Education, Ryuky University, Japan

**PO-2-155**

**Influence of acute moderate aerobic intensity exercise on quality of sleep estimated by mat-based sleep monitor**

Hyuntae Park

Aging Regulation, Tokyo Metropolitan Institute of Gerontology, Japan

**PO-2-156**

**Moderate intensity exercise performed in the early evening elicits a positive effect on sleep for young people who do not sleep well**

Shiro Oda

Department of Lifelong Sport, Hokusho University, Japan

**PO-2-157**

**Sleep in middle-aged and elderly women and its related factors**

Yoshimi Hida

School of Nursing, Sugiyama Jogakuen University, Japan

**PO-2-158**

**Correlation between Sleep and Minor Symptoms during Pregnancy**

Sayo Uematsu

Department of Nursing, School of Nursing, Kyoto Prefectural University of Medicine, Japan

**PO-2-159**

AS-16-3 Presenter

**Sleep related occupational impairment decreases with age in male workers in the UK.**

Erica Kucharczyk

Sleep Research Centre, SSEHS, Loughborough University, UK

**PO-2-160**

**Sleep quantity and quality of workers living in big cities in Japan.**

Kaori Kashiwagi

Dept of Planning and Development, SleepWell co., ltd, Japan

**PO-2-161**

**The effect of nap in an environmentally-controlled vehicle on psychological condition, and work ability<Summary>**

Takahiro Kurihara

Advanced Technologies development Laboratory, Panasonic Electric Works Co.,Ltd., Japan

**PO-2-162**

**Research on Sleep Pattern of Information Technology Engineers**

Ayaka Nishihara

Hospital, National Cerebral and Cardiovascular Center, Japan

**PO-2-163**

**Sleep duration and sleep surroundings in office workers**

**-Comparative analysis in Tokyo, New York, Shanghai, Paris and Stockholm-**

Makoto Bannai

Institute for Innovation, Ajinomoto Co., Inc., Japan

**PO-2-164**

**The number of concurrent non-communicable diseases and poor sleep quality: the Japanese civil servants study**

Michikazu Sekine

Department of Epidemiology, University of Toyama, Japan

**PO-2-165**

**Poor sleep status increases the risk of fatigue**

Sanae Fukuda

Graduate School of Medicine, Osaka City University, Japan

**PO-2-166**

**A comparative study of the sleep-wake schedule and the light environment before one thousand years with the modern society; for the next generation lighting**

Emi Koyama

Department of Design Engineering and Management, Graduate School of Science and Technology, Kyoto Institute of Technology, Japan

**PO-2-167**

**Withdrawn**

**PO-2-168**

**Subjective sleeping problems and self-reported sleep length during four seasons in Arctic Northern Norway**

Ingunn B. Skre

Department of Psychology, University of Tromsø, Norway

**PO-2-169**

AS-33-5 Presenter

**Sleep and fatigue management in extreme environment: case of solo sailors**

Rmy Hurdiel

Departement of Sport Science, Université du Littoral Cte d'Opale, France

**PO-2-170**

**Sleep in wintering expedition members in Antarctica**

Koh Mizuno

Faculty of Child and Family Studies, Tohoku Fukushi University, Japan

**PO-2-171**

**Sleep after Tohoku-Pacific Ocean Earthquake in 2011**

Koh Mizuno

Faculty of Child and Family Studies, Tohoku Fukushi University, Japan

**PO-2-172**

**Annual change of circadian rhythm in wintering expedition members in Antarctica**

Naomune Yamamoto

Department of Medicine, Tokyo Women's Medical University Medical Center East, Japan

**PO-2-173**

**Changes in Blood Amino Acid Level Associated with Sleep Deprivation in Rats**

Noriaki Sakai

Department of Psychiatry, Stanford University, USA

**PO-2-174**

**Physiologically based modeling in exploration and prediction of sleepiness on atypical work schedules**

Svetlana Postnova

School of Physics, University of Sydney, Australia

**PO-2-175**

**Sleep and vigilance of on-call physicians in Japan**

Naoko Kiriyama

Graduate School of Health Management, Keio University, Japan

**PO-2-176**

**Associated factors of possible shift-work disorder in nurses working with rapid rotation schedule in Japan**

Shoichi Asaoka

Department of Somnology, Tokyo Medical University, Japan

**PO-2-177**

**One day off following consecutive night shifts is enough to maintain wakefulness and cognitive function in nurses working on fast and forward rotating shift**

Yu San Chang

Graduate Institute of Medicine, Kaohsiung Medical University, Taiwan

**PO-2-178**

**Nurses working on fast rotating shifts have more impaired perceptual and motor abilities during the end of a night shift**

Yu San Chang

Graduate Institute of Medicine, Kaohsiung Medical University, Taiwan

**PO-2-179**

**Sleepiness in nurses and care workers engaged in shift work during child rearing years**

Yuko Yamada

Public Health Nursing, Japanese Red Cross Toyota College of Nursing, Japan

**PO-2-180**

**Impact of Extended Duration Work Shifts on Drowsy Driving, Subjective Sleepiness and Distractibility When Driving**

Clare Anderson

School of Psychology and Psychiatry, Monash University, Australia

**PO-2-181**

**Sleep quality and associated factors of radar monitoring workers**

Ching-Huang Lai

Department of Public Health, National Defense Medical Center, Taiwan

**PO-2-182**

AS-33-4 Presenter

**Sleeping aboard airplanes: unknown risks**

Eva-Maria Elmenhorst

Institute of Aerospace Medicine, German Aerospace Center, Germany

**PO-2-183**

**Food intake behaviors of irregular shift workers affected the chronotype (morningness-eveningness type)**

Shunsuke Nagashima

Nursing Science, Human Health Sciences, Faculty of Medicine, Kyoto University, Japan

**PO-2-184**

**Comparison of sleep habit in Japanese men students before, during and after science cruises**

Hitomi Takeuchi

Department of Environmental Physiology, Kochi University, Japan



**PO-2-185**

**The Association Between Sleep Problems and Perceived Health Status:  
A Japanese Nationwide General Population Survey**

Ryuji Furihata

Department of Psychiatry, Nihon University, Japan

**PO-2-186**

**Genetic Associations between Short Sleep Duration and Incidence of Hypertension:  
A Six-year Follow-up Korean Genome Epidemiology Study**

Kim Se Joong

Division of Pulmonary, Sleep and Critical Care Medicine, Korea University, Korea

**PO-2-187**

**Sociodemographic and socioeconomic differences in sleep duration and insomnia-  
related symptoms in the Finnish adult population**

Ossi J. Rahkonen

Department of Public Health, University of Helsinki, Finland

**PO-2-188**

**Does sleep position affect arousal from sleep pathways in infants born preterm?**

Rosemary SC. Horne

The Ritchie Centre, Monash Institute of Medical Research, Monash University, Australia

**PO-2-189**

**Alteration of child sleep in Japan from 2000 to 2010**

Jun Kohyama

Pediatrics, Tokyo Bay Urayasu/Ichikawa Medical Center, Japan

**PO-2-190**

**Significant relationship between sleep characteristics and behavioral attributes in  
Japanese school children**

Michiko Matsuoka

Department of Pediatrics and Child Health, Department of Neuropsychiatry, Kurume University, Japan

**PO-2-191**

**Development & feasibility trial of a mindfulness-based multi-component in-school  
group sleep intervention for poor sleep & anxiety symptoms in adolescent girls**

Bei Bei

Psychological Sciences, University of Melbourne, Australia

**PO-2-192**

**Withdrawn**

**PO-2-193**

**Survey of actual sleeping conditions in medical university students:  
Comparison of nursing students with those of other faculties**

Toyoe Taguchi

Acute and Critical Care in Adult Nursing, Meiji University of Integrative Medicine, Japan

**PO-2-194**

AS-16-5 Presenter

**Recommended levels of walking predict sleep and health outcomes among older  
people**

Iuliana Hartescu

Sleep Research Centre, SSEHS, Loughborough University, UK

**PO-2-195**

**The joint association of sleep duration and sleep problems with disability retirement:  
A longitudinal register-linked study**

Peija Haaramo

Hjelt Institute, Department of Public Health, University of Helsinki, Finland

**PO-2-196**

**Sleep and Activity Status of Psychiatric Day Care Users in Japan - A Survey of a  
Sleep and Activity Level Using Actigraphy -**

Miwa Mitsuhashi

School of Nursing, Kyoto Prefectural University of Medicine, Japan

**PO-2-197**

**Assessing the reliability of a questionnaire to assess lifetime sleep quality in a case-  
control study of breast cancer.**

Jennifer Girschik

Cancer Epidemiology, Western Australian Institute for Medical Research, Australia

**PO-2-198**

**Differences in Objective and Subjective Sleep in First-time and Experienced Mothers**

Soledad Coo Calcagni

Psychology Department, University of Melbourne, Australia

**PO-2-200**

AS-13-4 Presenter

**Work-family conflicts and sleep medication: a longitudinal register-based study**

Ossi J. Rahkonen

Department of Public Health, University of Helsinki, Finland

**PO-2-201**

**Sleep deprivation related smoking, drinking and fatigue among middle-aged  
Japanese men**

Atsuko Nakazawa

Health Center, Doshisha University, Japan

**PO-2-202**

**The contribution of sleep quality to self-rated health and physical and mental  
functioning: the Japanese civil servants study**

Michikazu Sekine

Department of Epidemiology, University of Toyama, Japan

**PO-2-203**

**Associations of sleep quantity with sleep quality: the Japanese civil servants study**

Michikazu Sekine

Department of Epidemiology, University of Toyama, Japan

**PO-2-204**

**Effect of five days sleep shortage on sport related performances**

Chie Kubota

Graduate school of Sport Sciences, Waseda University, Japan

**PO-2-205**

**Individual differences influence on the effects of sleep deprivation during face  
recognition**

Miyuki Tamura

Faculty of Human Arts and Sciences, University of Human Arts and Sciences, Japan

**PO-2-206**

AS-11-3 Presenter

**Can relative vulnerability to the effects of sleep deprivation on psychomotor vigilance be estimated using features of daytime performance?**

Joshua J. Gooley

Neuroscience and Behavioral Disorders, Duke-NUS Graduate Medical School, Singapore

**PO-2-207**

AS-15-4 Presenter

**Effect of sleep deprivation on sleep, mood and emotional processing**

Kate Porcheret

Nuffield Laboratory of Ophthalmology, University of Oxford, UK

**PO-2-208**

**Behaviourally induced insufficient sleep syndrome and its borderland**

Esther Werth

Department of Neurology, University Hospital Zurich, Switzerland

**PO-2-209**

**The effect of slow wave activity deprivation during an afternoon short nap on performance**

Hisashi Iizuka

Future Project, TOYOTA Motor Corporation, Japan

**PO-2-210**

**Self-awakening prevents sleep inertia under the period of partial sleep deprivation**

Hiroki Ikeda

Exploratory Research for Advanced Technology, Okanoya Emotional Information Project, Japan Science and Technology Agency, Japan

**PO-2-211**

**Scent reduces the deleterious effect of sleep interruption on circadian rhythm and skin conditions**

Yoko Gozu

Research Center, Shiseido Co., LTD, Japan

**PO-2-212**

**Preprohypocretin/Prepro-orexin Polymorphism Predicts Individual Differences in MWT Latency, Sleep Physiology and Homeostasis During Sleep Restriction**

Namni Goel

Department of Psychiatry, University of Pennsylvania School of Medicine, USA

**PO-2-213**

AS-14-4 Presenter

**Sleep Deprivation Increases Serotonin 2A Receptor Density in the Human Brain: a [<sup>18</sup>F] Altanserin PET Study**

David Elmenhorst

Institute for Neuroscience and Medicine, Forschungszentrum Juelich GmbH, Germany

**PO-2-214**

**Sleep deprivation alters valuation signals in the ventromedial prefrontal cortex**

Camilo D. Libedinsky

Neurobehavioral disorders, Duke-NUS Graduate Medical School, Singapore

**PO-2-215**

AS-14-5 Presenter

**Cerebral blood flow following acute sleep restriction measured using arterial spin labeling**

Govinda Poudel

Medical Physics and Bioengineering, Van der Veer Institute for Parkinson's and Brain Research, New Zealand

**PO-2-216**

AS-4-5 Presenter

**Predictors of sleeping difficulties in young women**

Dorothy Bruck

Social Sciences and Psychology, Victoria University, Australia

**PO-2-217**

AS-12-3 Presenter

**Cellular effects of sleep restriction in healthy young men**

Hanna M. Ollila

Medical genetics, National Institute for Health and Welfare, University of Helsinki, Finland

**PO-2-218**

AS-21-5 Presenter

**The effects of sleep deprivation on sympathoadrenal system and hypothalamic-pituitary-adrenocortical axis using salivary stress markers**

Masayuki Konishi

Graduate School of Sport Sciences, Waseda University, Japan

**PO-2-219**

AS-21-4 Presenter

**Endothelial function in healthy adults with insufficient sleep**

Akiko Noda

Department of Biomedical Sciences, Chubu University, Japan

**PO-2-220**

AS-18-4 Presenter

**Melatonin changes in the pineal gland of sleep deprived rats following habenular nucleus lesion**

Hua Zhao

Department of Physiology, Norman Bethune College of Medicine, Ji Lin University, China

**PO-2-221**

**Acute sleep deprivation affects diurnal rhythmicity in granulocytes**

Debra J. Skene

Centre for Chronobiology, University of Surrey, UK

**PO-2-222**

**PER3 and ADORA2A Polymorphisms Impact Neurobehavioral Performance during Chronic Sleep Restriction**

Tracy L. Rupp

Behavioral Biology, Walter Reed Army Institute of Research, USA

**PO-2-223**

**Heart rate variability and endothelial function after sleep deprivation and recovery sleep in shift workers and non-shift workers**

Debra J. Skene

Centre for Chronobiology, University of Surrey, UK

**PO-2-224**

**The effect of a sleep restriction on the pupillary light reflex**

Keiko Yamamoto

Department of Health and Psychosocial medicine, Aichi medical university, Japan

**PO-2-225**

AS-8-4 Presenter

**Tired and insignificant**

Tina Sundelin

Department of Psychology, Stockholm University, Sweden

**PO-2-226**

AS-21-4 Presenter

**Consistent increases of delta sleep in individuals exposed to chronic sleep restriction**

John Axelsson

Clinical Neuroscience, Karolinska Institute, Sweden

**PO-2-227**

**Features of tiredness**

John Axelsson

Clinical Neuroscience, Karolinska Institute, Sweden

**PO-2-228**

**Sleep in Antarctica**

Masaki Yoshida

SleepWell co., Ltd.

**PO-2-229**

**Therapeutic decision-making for sleep apnea and hypopnea syndrome using home respiratory polygraphy**

Juan F. Masa

Department of Pulmonology, San Pedro de Alcántara Hospital, Spain

**PO-2-230**

**Neuroglial metabolic coupling during the sleep-wake cycle**

Jean-Marie Petit

NeuroEnergetic and Cellular Dynamic Laboratory, CHUV - EPFL, Switzerland