

17TH CONGRESS OF THE
**E U R O P E A N
S L E E P
R E S E A R C H
S O C I E T Y**

OCTOBER 5–9 , 2004
Prague, Czech Republic

SCIENTIFIC PROGRAMME

WEDNESDAY, OCTOBER 6, 2004

THURSDAY, OCTOBER 7, 2004

FRIDAY, OCTOBER 8, 2004

SATURDAY, OCTOBER 9, 2004

09.00 – 10.30

WEDNESDAY, OCTOBER 6, 2004

09.00 – 10.30

Opening ceremony

10.30 – 11.00 Coffee break

Forum Hall

11.00 – 13.00 Young Scientists Symposium

Chairs: Irene Tobler (Zurich, Switzerland), Soňa Nevšimalová (Prague, Czech Republic)

Retinoic acid receptor beta is involved in the generation of delta oscillations during slow-wave sleep

S. Maret, Z. Dauvilliers, D. Chollet, B. Petit, E. Neidhart, N. Ghyselinck, P. Chambon, P. Franken, M. Tafti

Overnight verbal and visual memory retention correlates with the number of sleep spindles

Z. Clemens, D. Fabó, P. Halász

Local changes in non-REM sleep slow-wave activity

R. Huber, M. - F. Ghilardi, M. Massimini, G. Tononi

Phase preferences and sleep patterns of adolescents attending school in two shifts

A. Koščec, B. Radošević-Vidaček

Psychomotor performance, attention and executive function in patients with mild and/or moderate obstructive sleep apnea/hypopnea syndrome

O. Mairesse, E. Verstraeten, G. Hoffmann, P. Theuns, R. Cluydts

13.00 – 13.30 Lunch

Forum Hall

13.30 – 14.30 State of the art lecture 1

Chair: Jean Krieger (Strasbourg, France)

Recent advances in the sleep apnea/hypopnea syndrome

Neil Douglas (Edinburgh, United Kingdom)

Meeting Hall I

13.30 – 14.30 State of the art lecture 2

Chair: Irene Tobler (Zurich, Switzerland)

Recent developments in sleep phylogeny: Implications for the function(s) of sleep

Jerry Siegel (Los Angeles, USA)

14.30 – 16.00 Poster presentation 1

Club
Children + Pediatrics I

P001 Validation of a new method of arterial blood pressure measurement during sleep in preterm infants

R. S. C. Horne, S. R. Yiallourou, J. Jayamaha, A. M. Walker

P005 Interdependence between cardiorespiratory and EEG activity in term and preterm neonates during awake and sleep

D. M. de La Cruz, E. Pereda, S. Mañas, J.M. Garrido, S. Lopez, J. J. González

P009 Behavioral states organization and emotional expression in the early hours of life

E. Baroni, M. Cecchini, E. Menghetti

P013 Characteristics of infants' night sleep at the first month under co-sleeping conditions

H. Eto, S. Horiuchi, K. Nishihara

P017 Validation of actigraphy for determination of sleep and wake in young infants

K. So, P. Buckley, T. M. Adamson, R. S. C. Horne

P021 Awakening in the second semester of life: the respective role of the behavioural state and of the EEG activity level

C. Zampi, F. Giganti, K. Chardon, I. Fagioli, P. Salzarulo

P025 Can sundowning explain early evening colic in young babies?

Y. Harrison, K. Jones

P029 Interaction between time of feeding and sleep in neonates

K. Chardon, F. Telliez, A. Leke, V. Cardot, S. Delanaud, P. Tourneux, V. Bach

P033 Parents-infant communication and behavioral states in the first weeks of life

S. Cataudella, E. Baroni, M. Cecchini

P037 Awakening preceding food intake occurs during body temperature increase in neonates

F. Telliez, V. Cardot, K. Chardon, G. Dewasmes, A. Leke, P. Tourneux, S. Delanaud, V. Bach, J. P. Libert

P041 The influence of sleep health and sleep habits of parents on those of children in Japan

Y. Komada, N. Adachi, N. Matsuura, K. Mizuno, K. Hirose, R. Aritomi, S. Shirakawa

P045 Developmental impairments associated with reduced total sleep time among preschoolers

E. Touchette, D. Petit, J. Paquet, R. E. Tremblay, J. Y. Montplaisir

P049 Sleep cyclic alternating pattern in normal children

M. Lopes-Conceição, S. Roizenblat, D. Poyares, C. Passarelli, A. C. Rosa, S. Tufik

P052 Sleep characteristics and ethnicity in children

L. M. O'Brien, V. F. Jones, C. R. Holbrook, D. Gozal

P055 Profile of prepubertal children with frequent nightmares

M. St-Onge, J. De Koninck

P058 Changes in activity-rest rhythm in children between 1st and 15th year of life detected with actigraphy

S. Lüder, V. Hesse, H. Lehnkering, R. Siegmund

P061 Effective emergency arousal of sleeping children

D. Bruck, S. Reid, M. Ball

P064 Sleep disturbance in children with attention deficit hyperactivity disorder: An actigraphic study

P. Montgomery, L. Wiggs, G. Stores

P067 Parent report and actigraphy: sleep patterns in children with attention deficit hyperactivity disorder (ADHD)

L. Wiggs, P. Montgomery, G. Stores

P070 Sleep quality, sleep duration, and adolescents' well-being

A. M. Meijer, G.L.H. van den Wittenboer, E. Reitz, M. Deković

P073 Insufficient sleep in adolescent morning and evening types

W. F. Hofman, R. van Lien

P075 Canada – UK differences in adolescent sleep behavior

F. Doyle, F. Alarakhia, L. Kayumov, N. Hossain, C. M. Shapiro

**Panorama Hall
Biological Rhythms I**

P076 Association of the length polymorphism in the Per3 gene with phase delayed sleep syndrome: does latitude have an influence upon it?

D. Pereira, M. Pedrazzoli, F. M. Louzada, A. A. Benedito-Silva, A. R. Lopez, S. Tufik

P080 Cellular adhesion molecules (ICAM and VCAM), E- and P-selectins show diurnal rhythms with nadirs during sleep

J. M. Mullington, M. Haack, N. Rifai

P084 Inverse links between SWA per cycle and the number of sleep ultradian cycles per night in healthy humans

O. Le Bon, L. Staner, S. Chabanski, G. Hoffmann, I. Pelc, P. Linkowski

P088 Is there a lunar effect on subjective and objective ratings of sleep quality?

J. Zeitlhofer, G. Kloesch, B. Saletu, M. J. Barbanoj, H. Danker-Hopfe, D. Kunz, S. - L. Himanen, B. Kemp, T. Penzel, J. Roeschke, G. Dorffner

P092 The effect of the sleep-wake cycle and circadian phase on mood and cognition

K. Jones, Y. Harrison, J. Waterhouse

P096 A displaced sea watch system - effects on sleep and alertness

M. Gillberg, H. Pernler

P100 The circadian pacemaker and its response to light in early and late sleepers

M. C. M. Gordijn, A. Zavada, D. G. M. Beersma, T. M. Rosien, K. J. Bijl, S. Gramser, S. Daan

P104 Sleeping habits and circadian preference as revealed by the Munich Chronotype Questionnaire and Morningness-Eveningness Questionnaire

A. Zavada, M. C. M. Gordijn, D. G. M. Beersma, S. Daan, T. Roenneberg

P108 Melatonin administration in postmenopausal women with sleep problem

M. Herljevic, B. Middleton, S. Wisden, D. J. Skene

P112 Reduced melatonin suppression in response to short wavelength light in older women

M. Herljevic, B. Middleton, K. Thapan, D.J. Skene

P116 Melatonin can phase shift the endogenous circadian rhythm of heart rate and its variability

G. Vandewalle, B. Middleton, S. W. Rajaratnam, B. M. Stone, B. Thorleifsdottir, J. Arendt, D. J. Dijk

P120 Circadian modulation of psychomotor vigilance and the effect of sleep pressure in young and elderly subjects

K. Blatter, P. Graw, M. Münch, V. Knoblauch, K. Kräuchi, C. Schnitzler, C. Schröder, C. Renz, A. Wirz-Justice, C. Cajochen

P124 Light therapy and pharmacotherapy in circadian rhythm disorders

A. Trojecka, W. Jernajczyk, A. Wierzbicka, I. Boratynska

P128 Seasonal variations in mood and behaviour associated with female gender, low annual income and education

N. M. F. Øyane, F. Holsten, B. Bjorvatn, R. Ursin

P132 Seasonal changes in creativity. A study on a sample of eminent Italian writers

G. Barbato, S. Piemontese

P136 Co-existing chronopathological circadian rhythm in psychiatric disorders

M. Yoshida, N. Kajimura, T. Watanabe, T. Nakabayashi, T. Hori, M. Sasaki, K. Takahashi, T. Nakajima

P140 Effect of the light of different wavelengths during morning, evening and night times on sleepiness

M. Sato, Y. Katae, T. Morita

P144 Spectral sensitivity of the acute effects of light in humans

V. Revell, D. -J. Dijk, J. Arendt, D. J. Skene

P148 The periodicity of the ultradian rhythm of vigilance depends on the phase shift of the body temperature by the bright light stimulation

Y. Tsuji, H. Yoshida, H. Yong

P152 School schedule effects on sleep patterns of rural adolescents

F. M. Louzada, L. Menna-Barreto

P156 Chronotypes and actigraphic recording of activity-rest rhythm in students

H. Lehnkering, R. Siegmund

P160 Sleep patterns of full- time working teens

L. R. Teixeira, F. M. Fischer, A. Lowden

P164 Work hours and disturbed sleep in the police

C. A. Eriksen, G. Kecklund, T. Åkerstedt

P168 Predicting tolerance to shift work - sleep is central

T. Åkerstedt, J. Axelsson, G. Kecklund

P172 Shift-work seniority increases the importance of sleep disorders: a comparison between shift-working categories

S. Garbarino, B. Mascialino, F. De Carli, G. La Paglia, L. Nobili, F. Ferillo

P176 Predicted versus actual performance on a range of measures across a week of simulated night shifts

A. Fletcher, J. Dorrian, N. Lamond, G. Roach, A. Holmes, H. Burgess, D. Dawson

P180 Diurnal sleep architecture and sleep- wake cycle of nurses on different shifts

M. M. F. De Martino, R. M. F. Fernandes, J. R. S. Barreto

P184 Working with diamond-cutting daylight lamp- an occupational risk for developing circadian rhythm sleep disorder?

J. T. Doljansky, H. Kannety, Y. Dagan

P188 Sleep distribution through a shiftwork rotation involving intermittent exposure to altitude in copper-mine workers

E. A. Vivaldi, E. Fernández, R. Catalán

P192 Low wavelength light blocking, melatonin and possible prevention of increased cancer risk in shift-workers

L. Kayumov, R. Hawa, H. J. Moller, A. Lowe, S. Sokalsky, R. F. Casper, C. M. Shapiro

P196 Age related decline of melatonin excretion in healthy subjects

R. Mahlberg, A. Tilmann, L. Salewski, D. Kunz

P200 A therapeutic approach to restore circadian rhythm in adolescents with delayed sleep phase

G. Bader

Physiology, Neurophysiology I

P204 Continuity of neural activity across awakening

P. Lenzi, V. Asti, T. Bojic, T. Cianci, V. Ferrari, C. Franzini, A. Silvani, G. Zoccoli

P208 Is early wakefulness after sleep a true wakefulness ?

T. Bojic, V. Asti, T. Cianci, V. Ferrari, C. Franzini, P. Lenzi, A. Silvani, G. Zoccoli

P212 Short-term REM sleep homeostasis and intervening NREM sleep in the spontaneous sleep cycling of the rat

E. A. Vivaldi, A. Ocampo-Garcés, A. Bassi

P216 REM deprivation significantly reduces a hippocampally lesioned rats ability to acquire a spatial learning task

T. D. Roberson, B. T. Riley, G. R. Poe

P220 Influence of pharmacological deprivation of sleep on the structure of sleep-waking cycle

I. Rukhadze, T. Basishvili, M. Elioizishvili, N. Emukhvari, I. Gvilia, N. Darchia, N. Oniani

- P224 Amitryptilin's effect on the learning process in rats**
I. Gvilia, N. Darchia, O. Mchedlidze, V. Moliadze, T. Basishvili, I. Rukhadze, T. Oniani
- P228 Homeostatic and circadian aspects of sleep regulation in the rat: 6-h sleep deprivation in the light period and dark period**
V. V. Vyazovskiy, A. A. Borbély, I. Tobler
- P232 Dynamics of spindles and EEG slow-wave activity in NREM sleep in mice**
V. V. Vyazovskiy, P. Achermann, A. A. Borbély, I. Tobler
- P236 Hypothalamic osmoregulation is equally active in the rat during the wake-sleep cycle**
M. Luppi, R. Amici, F. Baracchi, P. Capitani, M. Cerri, D. Dentico, Ch. Jones, D. Martelli, P. L. Parmeggiani, E. Perez, G. Zamboni
- P240 EEG predictiveness of state transition from NREM sleep to REM sleep in the rat**
P. Capitani, R. Amici, F. Baracchi, M. Cerri, D. Dentico, Ch. Jones, M. Luppi, D. Martelli, P. L. Parmeggiani, E. Perez, G. Zamboni
- P244 Sleep modifies the coupling between heart period and arterial pressure in newborn lambs**
A. Silvani, V. Asti, T. Bojic, V. Ferrari, C. Franzini, D. A. Grant, P. Lenzi, A. M. Walker, G. Zoccoli
- P248 Cerebral oxygen metabolism during the wake-sleep cycle in newborn lambs**
V. Ferrari, V. Asti, T. Bojic, C. Franzini, D. A. Grant, P. Lenzi, A. Silvani, A. M. Walker, G. Zoccoli
- P252 Central and baroreflex control of heart period during phasic hypertensive events in REM sleep**
V. Asti, T. Bojic, V. Ferrari, C. Franzini, P. Lenzi, D. A. Grant, A. Silvani, A. M. Walker, G. Zoccoli
- P256 Neuronal activity in the lateral hypothalamus precedes phasic fluctuation of blood pressure during paradoxical sleep**
K. Takahashi, Y. Koyama, Y. Kayama
- P259 Brain asymmetry changes in sleeping rats**
L. I. Gené, R. V. Rial, S. Tejada, A. Gamundí, M. Akaârir, C. Nicolau
- P262 Relationship between food intake, temperature of thermogenic organs and sleep in rats living under standard conditions**
G. Dewasmes, F. Telliez, S. Delanaud, G. Vardon, W. Ramadan, N. Loos
- P265 Influence of auditory stimulation on theta during REM sleep**
T. E. Bjorness, G. R. Poe
- P268 Sympathetic innervation of the cerebral circulation is active during REM sleep**
P. Cassaglia, R. Griffiths, G. Zoccoli, C. Franzini, A. Walker
- P271 Influence of opioid peptides on the rats' normal sleep**
T. Basishvili, I. Gvilia, N. Darchia, I. Rukhadze, N. Emukhvari
- P274 Interleukin 1beta increases c-fos protein immunoreactivity in sleep-active regions of the preoptic hypothalamus in rats**
F. C. Baker, S. Shah, D. R. Stewart, F. Xu, K-T. Chew, R. Szymusiak, M. R. Opp, D. McGinty
- P277 A large-scale computer model of sleep and wakefulness in thalamocortical circuitry**

S. L. Hill, G. Tononi

P278 Pilocarpine increases theta rhythm in different vigilance states in rats

A. Gamundí, S. Tejada, M. A. Comas, C. Roca, A. M. L. Coenen, S. Esteban

P279 Inhibition of spontaneous NREM sleep of rats by caspase-1 inhibitors depends on the light-dark cycle

L. Imeri, S. Bianchi, M. R. Opp

**North Hall
Pharmacology - Human**

P280 Effects of modafinil on nocturnal sleep, and on performance and sleepiness the following day

C. Turner, S. L. Mills, B. M. Stone

P284 Cognitive, subjective and physiological outcomes from modafinil during escalating sleep deprivation

N. L. Rogers, G. Maislin, H. P. A. Van Dongen, D. F. Dinges

P292 Caffeine, dextroamphetamine, and modafinil during 85 hours of sleep deprivation.

II. Effects on tasks of executive function

N. Wesensten, W. Killgore, G. Belenky, R. Reichardt, D. Thorne, T. Balkin

P296 Women's attitudes to the use of hypnotics as a response to sleep disruption

J. Hislop, S. Arber

P300 Sleep troubles in altitude: zolpidem or zaleplon?

M. Beaumont, O. Coste, D. Batéjat, P. Van Beers, C. Piérard, J. -C. Jouanin, G. Savourey, D. Léger

P304 Residual effects of the short half-life non-benzodiazepine hypnotics zopiclone and zaleplon

A. Vermeeren

P308 Next-day residual effects of zolpidem, zopiclone and lormetazepam in primary insomnia: a driving simulation study with simultaneous EEG monitoring

L. Staner, S. Ertlé, P. Boeijinga, M. -A. Arnal, A. Muzet, R. Luthringer, J. -P. Macher

P312 Effects of zolpidem on subjective evaluation of daytime vigilance and on psychomotor and physical performance tests in healthy volunteers

S. Uemura, T. Kanbayashi, T. Takemura, H. Kondo, R. Aizawa, Y. Sagawa, T. Kitajima, H. Kanayama, S. Ohnuma, R. Kurosawa, T. Shimizu

P316 Serotonin manipulations of REM sleep: the effects of tryptophan depletion, of fluvoxamine and of both combined in man

L. Staner, F. Cornette, A. Monreal, V. Most, C. Staner, R. Luthringer, J. P. Macher

P320 Objective investigation of hang-over-effects in valerian/lemon balm tablets with the pupillographic sleepiness test

R. Schnell, B. Wilhelm, H. Lüdtke, H. Peil, A. Vignutelli

P324 Improvement effects of theanine on sleep quality

L. R. Juneja, M. Ozeki, S. Shirakawa

P328 Sleep deprivation and hormone replacement therapy in postmenopausal women

N. Kalleinen, O. Polo, S. -L. Himanen, A. Joutsen, A. S. Urrila, P. Polo-Kantola

P332 The effects of cedrol on sleep quality, mental and physical health in the elderly

H. Tanaka, Y. Yada, H. Mitobe, T. Suzuki

P336 Pharmacokinetics of valerian in healthy normal men and women

M. V. Vitiello, E. Kantor, I. Templeton, S. M. Barsness, G. W. Elmer, G. D. Anderson

P340 Efficacy and tolerability of indiplon-MR in elderly patients with chronic sleep maintenance insomnia

P. Jochelson, J. K. Walsh, D. A. Lankford, A. Krystal, T. Roth, M. Garber

P344 Efficacy of indiplon-MR in inducing and maintaining sleep in adult patients with chronic sleep maintenance insomnia

M. Scharf, T. Roth, J. K. Walsh, P. Jochelson, M. Garber

P348 Effects of tiagabine in sleep of patients with primary insomnia

T. Roth, G. Zammit, J. K. Walsh

P352 Comparison of sleep-activity profiles of pregabalin and alprazolam in healthy, sleep-normal volunteers

I. Hindmarch, N. Stanley, J. Dawson

P356 Pregabalin improves sleep interference in patients who have postherpetic neuralgia

S. A. Martin, A. E. Remmers, L. LaMoreaux, J. P. Young Jr. , R. M. Poole, T. Hsu

P360 Quetiapine promotes sleep in healthy subjects

S. Cohrs, A. Rodenbeck, Z. Guan, K. Pohlmann, W. Jordan, A. Meier, E. Rütger

P363 Enhanced heat loss and hypersensitivity to diazepam in the elderly

K. Mishima, M. Echizenya

P366 Quetiapine versus haloperidol treatment of circadian rest-activity cycle, behavioural and cognitive disturbances in Alzheimer's disease

E. Savaskan, C. Schnitzler, C. Schröder, Ch. Cajochen, F. Müller-Spahn, A. Wirz-Justice

P367 Sleep promotion linked with opposite changes of nocturnal ghrelin and leptin levels after antidepressive treatment with mirtazapine

D.A. Schmid, M. Uhr, M. Ising, A. Wichniak, J. C. Weikel, K. Held, A. Steiger

P368 Nefazodone in primary insomnia

M. H. Wiegand, P. Galanakis, R. Schreiner

P369 Low-dose doxepin treatment does not increase periodic leg movements in primary insomnia patients. Data from a randomized, double-blind, placebo-controlled trial

M. Hornyak, M. Kopasz, A. Rodenbeck, G. Hajak, D. Riemann, U. Voderholzer

P370 Insomnia in somatoform pain disorder: sleep studies on differences to controls and acute effects of trazodone

G. Saletu-Zyhlarz, W. Prause, P. Anderer, M. Mandl, M. Freidl, M. Weiss, M. Aigner, B. Saletu

P371 Mianserine in treatment of primary insomnia. Pilot study

A. Trojecka, W. Jernajczyk, A. Wierzbicka, A. Wichniak, I. Boratynska, K. Czasak

P372 Changes in sleep following single-dose treatment with chlorpromazine, clozapine, olanzapine or thalidomide

A. Schuld, D. Hinze-Selch, M. Haack, M. Dalal, H. Himmerich, M. Lancel, T. Pollmächer

P373 Does a placebo affect sleep measures?

*F. Fratello, G. Curcio, M. Ferrara, G. Pavone, C. Marzano, A. L. Romano,
A. Couyoumdjian, G. Petrillo, M. Bertini, L. De Gennaro*

Terrace 1 Epidemiology

P374 Sleep characteristics of 40-45 year old short, medium and long sleepers in a Norwegian county

R. Ursin, B. Bjorvatn, F. Holsten

P378 Sleep length and mortality: a population-based 25-year follow-up study

C. Hublin, J. Kaprio, M. Partinen, M. Koskenvuo

P382 Sleep quality in long and short sleepers aged 16-93

J. A. Sanders, M. L. Copley, J. A. Groeger, D. -J. Dijk

P386 The effect of personality on tests for sleepiness

S. Banks, P. Catchside, L. C. Lack, R. R. Grunstein, R. D. McEvoy

P390 The prevalence and consequences of shift work sleep disorder in a population-based sample

T. Roth, G. Richardson, T. Roehrs, E. Myers, C. L. Drake

P394 Influence of age and season on women's sleep as assessed by sleep diaries and actigraphy in field conditions.

B. Middleton, A. S. Urrila, P. Stenuit, M. Kerkhofs, T. Porkka-Heiskanen, D.J. Skene

P398 Sleep quality and more common sleep-related problems in medical students

M. Veldi, A. Aluoja, V. Vasar

P401 Sleep habits and factors associated with short sleep duration among Japanese high-school students: A community study

H. Tagaya, M. Uchiyama, T. Ohida, Y. Kamei, K. Shibui, A. Ozaki, X. Tan, H. Suzuki, S. Aritake, L. Li, K. Takahashi

P404 Chronotype and Epworth Sleepiness Scale (ESS) scores in a first year university sample

S. Olavarrieta-Bernardino, A. Vela-Bueno, J. J. De la Cruz-Troca, J. Oliván-Palacios, J. Fernández-Mendoza, A. Vgontzas, E. O. Bixler

P407 Chronotypes in a first year university sample

A. Vela-Bueno, S. Olavarrieta-Bernardino, J.J. De la Cruz-Troca, A. Rodríguez-Muñoz, A. Vgontzas, E. O. Bixler

P410 Epworth Sleepiness Scale (ESS) scores in a first year university sample

A. Vela-Bueno, S. Olavarrieta-Bernardino, J. J. De la Cruz-Troca, N. Gayubas-Bravo, A. Vgontzas, E. O. Bixler

P413 Prevention of sleep disorders: the sleep seminar

J. Zulley, P. Geisler, R. Popp, T. Croenlein, V. Jacobs, G. Hajak

P415 Investigation of obstructive sleep apnea syndrome (OSAS) and related factors

S. Ardic, H. Firat, A. U. Demir, P. Alagoz, G. D. Yuçe, Z. Yildirim, Y. Bardakci

Terrace 2 Insomnia

P424 Nocturnal IL-6, Leptin and Substance P secretion in primary insomnia

I. L. Burgos, T. Klein, L. Richter, U. Voderholzer, K. Lieb, B. Fiebich, D. Riemann

P428 Physiology and performance in chronic insomnia: a 24h constant-routine study

M. Varkevisser, H. P. A. van Dongen, G. A. Kerkhof

P432 Temporal and topographical distribution of delta activity in primary insomnia

K. Androsiuk, W. Androsiuk, S. Niemcewicz, W. Szelenberger

P436 Evidence of impaired peripheral heat loss capacity in sleep onset insomniacs

C. J. van den Heuvel, S. A. Ferguson, D. Dawson

P440 Quality of sleep and P300 amplitude in primary insomniacs

A. Devoto, C. Violani, F. Lucidi, C. Lombardo, P. M. Russo, S. Manganelli

P444 The alerting effects of a brief nap for people with chronic primary insomnia

A. Brooks, L. Lack, M. Gradisar, J. Harris, A. Daly

P448 Toward a valid, reliable measure of sleep effort

N. M. Broomfield, C. A. Espie

P452 The role of attention in primary insomnia

B. T. Jones, L. M. Macphee, S. M. Biello, N. M. Broomfield, B. C. Jones, K. M. A. MacMahon, C. A. Espie

P456 Sleep related attention bias in primary insomnia, delayed-sleep-phase-syndrome and good sleepers

K. M. A. MacMahon, N. M. Broomfield, L. M. Macphee, C. A. Espie

P460 Effects of home applicable peripheral thermal stimulation on sleep onset latency

R. J. E. M. Raymann, D. F. Swaab, E. J. W. van Someren

P464 Severity of insomnia and daytime sleepiness correlates with verbal episodic memory performance in elderly

R. J. E. M. Raymann, R. den Haan, S. Ootes, E. van Braak, D. J. Bierman, J. A. J. Schmitt, D. F. Swaab, E. J. W. Van Someren

P468 Comparison of visual perception between elderly with and without insomnia

I. Haimov, B. Hadad, D. Shurkin

P472 Insomnia and coronary artery disease risk factors in the Warsaw metropolitan area

J. Piwoński, W. Piotrowski, A. J. Dabrowska, A. Prejbisz, M. Kabat, S. Rywik, A. Januszewicz, W. Szelenberger

P476 Sleep disorders in patients with chronic use of hypnotics

B. Sivertsen, S. Omvik, S. Pallesen, I. H. Nordhus, B. Bjorvatn

P480 10 h repeatedly measured performance in patients with insomnia, narcolepsy, obstructive sleep apnea, and controls

S. Fulda, C. Schneider, H. Schulz

P484 Cognitive behavioural treatment for chronic insomnia with general anxiety disorder

Z. De Saint Hilaire, R. Blois

P488 Outcomes of group insomnia programme in Australia

D. J. Bartlett, L. Paisley, A. Brock, M. J. Dodd, R. R. Grunstein

P492 Effects of cognitive-behavioral treatment (CBT) on assessment of nocturnal and diurnal quality of life in insomniac patients

F. Cornette, L. Staner, R. Luthringer, J.P. Macher

P496 Fast: a novel behavioural treatment for chronic sleep onset insomnia

J. Harris, L. Lack, M. Gradisar, A. Brooks

P500 Effect of cognitive behavioral therapy on sleep architecture and sleep EEG power spectra in psychophysiological insomnia

K. Červená, F. Espa, Y. Dauvilliers, M. Brunovský, M. Matoušek, M. Billiard, A. Besset

P504 Preliminary descriptive data from a study of the clinical effectiveness of cognitive behaviour therapy (CBT) versus treatment as usual (TAU) for insomnia in cancer patients

L. Fleming, C. A. Espie, L. M. Taylor, A. McIntosh

P507 Insomnia in general practice: a multi-region epidemiological survey in France

M. Tiberge, L. Nögre – Pagčs, G. Chastan, M. A. Massuel

P509 Increase in insomnia complaints during the last ten years in Uppsala, Sweden

J. E. Broman, L. Mallon, H. Smedje, H. Bengtson, J. Hetta

P511 Prevalence of insomnia assessed by quantitative criteria in a general population

J. -E. Broman, L. Mallon, J. Hetta

P513 Insomnia and sleep quantity in a large sample of young adults

E. Vamos, M. Novak, I. Mucsi, J. Rethelyi, M. S. Kopp

P514 The prevalence of insomnia and depression in out-hospital patients in Lithuania

G. Varoneckas, D. Duobinis, N. Raskauskiene

P515 Prevalence of sleep complaints and insomnia and their relationship to medical conditions in the vitamins and lifestyle (vital) study cohort of 77,000 older men and women

M. V. Vitiello, D. J. Foley, K. L. Stratton, E. White

P516 Fatigue, sleepiness and sleep propensity in insomnia – relation to sleep quality and quantity

P. Vestergren, J. -E. Broman, J. Hetta

P517 Quality of life in primary and secondary psychiatric insomnia

D. Koch, A. Besset, B. Carlander, J. Touchon, Y. Dauvilliers

P518 Increased health care utilization amongst insomniacs

S. Barotfi, I. Mucsi, J. Rethelyi, C. M. Shapiro, M. Novak, M. S. Kopp

P519 Impact of insomnia on working memory

S. Boufidis, K. Roikou, P. Giota, A. Karlovassitou, A. Balla, E. Vlahoyanni, S. I. Baloyannis, M. H. Kosmidis

P520 Subjective sleep quality and performance in elderly women

A. Décary, M. Vendette

P521 Subjective sleep duration under high and low sleep pressure conditions

H. Tagaya, M. Uchiyama, Y. Kamei, K. Shibui, A. Ozaki, X. Tan, H. Suzuki, S. Aritake, L. Li Foyer

Foyer

Sleep Respiratory Disturbances I

P522 Sleep quality, daytime sleepiness and fasting insulin levels in chronic obstructive pulmonary disease

T. Saaresranta, K. Irjala, T. Aittokallio, O. Polo

P526 Obstructive sleep apnea syndrome as a cause of uncontrolled nocturnal asthma

T. U. Ciftci, B. Ciftci, S. Firat Guven, O. Kokturk, H. Turktas

P530 The relationship between serum cytokine levels with obesity and obstructive sleep apnea syndrome

T. U. Ciftci, O. Köktürk, N. Bukan, A. Bilgihan

P534 Sleep apnea syndrome among patients participating in cardiac and pulmonary rehabilitation

M.Gudjónsdóttir, G. Bjarnadóttir, A. Jónsdóttir, D. Lúdvíksdóttir

P538 Association between body mass index and obstructive sleep apnea syndrome

V. A. Eroshina, R.V. Buzunov

P542 Effects of weight reduction on 34 obese patients with obstructive sleep apnea syndrome (OSAS)

D. Friberg, P. Nerfeldt, J. Uddén, B. Y. Nilsson, S. Rössner

P546 Effect of sibutramine-assisted weight loss on obstructive sleep apnea in men

B. J. Yee, D. Banerjee, K. Wong, H. Vedam, J. Ward, C. Phillips, N. Berend, J. A. Hedner, R. R. Grunstein

P550 Sleep apnea contributes to increased type 2 diabetes risk in women with polycystic ovary syndrome

E. Tasali, E. Van Cauter, D. Ehrmann

P554 Sleep disorders and acromegaly: correlation with activity of the disease

M. Fabbrini, M. Maestri, E. Bonanni, M. Gasperi, I. Lupi, L. Manetti, L. L. Morselli, E. Martino, L. Murri

P558 Dental side effects from a mandibular advancement device after 5 years treatment of snoring and sleep apnea

M. Marklund

P562 Influence on the masticatory system in treatment of obstructive sleep apnea and snoring with a mandibular protruding device

A. M. C. Fransson, Å. Tegelberg, A. Johansson, B. Wenneberg

Respiratory Disorders - Instrumentation

P566 Arousal evaluation by pulse rate increase in SDB

H. Adachi, A. Mikami, T. Kumano-go, N. Suganuma, H. Matsumoto, S. Yamamura, H. Morishima, Y. Shigedo, M. Takeda, Y. Sugita

P570 Standardisation of snoring recording and quantification using a novel Snorometer

R. E. Royston

P574 An investigation of reliability: nasal pressure and the sleepstrip

A. Brinkley, A. de Weerd

P578 Health technology assessment of sleep obstructive apnea

P. Jennum, J. Andreasen, J. Folkersen

P582 A co-morbidity model to identify moderate to severe obstructive breathing during sleep - preliminary results

R. Russo, G. Cossa, L. Laks, M. Peters

P586 The dynamics of the ala nasi movements in normal and sleep disordered breathing- a novel diagnostic tool for SDB

E. Rosenzweig, A. Green, T. J. Doljansky, Y. Dagan

P590 Measurement of the lowering of the mandible during sleep in childhood : relevance for the "mouth breather" detection and for the relationship between mouth breathing in childhood and OSA

J. Penders, S. Raskin, M. Limme, L. Cambron, G. Moonen, R. Poirrier

P594 Oro-nasal pressure and O2 saturation monitoring as a reliable method of screening for sleep apnoea

N. N. Trajanovic, I. Voloh, M. Rasool Shaheed, C. M. Shapiro, V. Radivojevic

P598 Regional differences between the nonlinear dynamical characteristics (PD2) of EEG of the non-treated OSAS and control patients

B. Faludi

P602 Digital plethysmographical dynamics during sleep disordered breathing

N. Suganuma, T. Kumano-go, H. Matsumoto, S. Yamamura, H. Morishima, H. Adachi, A. Mikami, Y. Sugita, M. Takeda

Human Basic Respiration

P605 Periodic breathing during sleep at high altitude is not related to ventilatory responses at sea level

P. L. Johnson, N. Edwards, K. R. Burgess, C. E. Sullivan

P608 Measurement of pharyngeal pressure for detecting the source of snoring

A. Dreher, R. de la Chaux, C. Klemens, N. Feucht, T. de Almeida, G. Rasp

P610 Effects of menopause and sleep on non-invasive respiratory measurements

J. Toivonen, T. Aittokallio, A. Virkki, T. Saaresranta, P. Polo-Kantola, O. Polo

P612 A 2-dimensional model for simulating basic physiological processes involved in OSA

J. Penders, P. Ansay, B. Beckers, R. Poirrier, R. Sepulchre

P614 Progesterin improves gas exchange in postmenopausal women with sleep-disordered breathing (SDB)

U. Anttalainen, T. Saaresranta, T. Vahlberg, O. Polo

P615 Instability of respiratory mechanics is strongly correlated with apnea, oxygen desaturations and arousals

W. F. Hofman, H. G. Helgason, A. Kumar

P616 Leptin and ghrelin levels in patients with obstructive sleep apnea syndrome

T. U. Ciftci, O. Köktürk, N. Bukan, A. Bilgihan

P617 Elevated serum homocysteine levels in patients with obstructive sleep apnea syndrome

O. Köktürk, T. U. Ciftci, E. R. Han, B. Ciftci

P618 Elevated C-reactive protein (CRP) levels in patients with obstructive sleep apnea syndrome

O. Köktürk, T. U. Ciftci, E. R. Han, B. Ciftci

P619 No association of the serotonin receptor 2A gene polymorphism with the obstructive sleep apnoea/hypopnoea syndrome

R. L. Riha, P. Brander, M. Vennelle, S. M. Kerr, N. J. Douglas

P620 Serum paraoxonase activity and lipid peroxidation in obstructive sleep apnea patients

16.00 – 18.00 Symposium 1

**Presidential Symposium: ESRS – Japanese Society for Sleep Research
Circadian rhythm sleep disorders: Contributions from physiology, culture and life-style**

Chairs: Tatsuro Ohta (Nagoya, Japan), Irene Tobler (Zurich, Switzerland)

Introduction

T. Ohta

Chronoecology: our sleep-wake cycles forced into the real world's procrustian bed

A. Wirz-Justice

Sleep deterioration with aging as a life-style disease: Potential of chronotherapy for better sleep-waking in the elderly

K. Mishima

Chronic idiopathic sleep onset insomnia in children: A chronobiotic disorder?

M. Smits, K. B. van der Heijden

Abnormal circadian organization in delayed sleep phase syndrome and non-24-hour sleep-wake syndrome

M. Uchiyama, Z. Kamei, T. Hazakawa, K. Shibui, H. Tagaya, K. Takahashi

Summary and discussion

H. Illnerová

Meeting Hall 1

16.00 – 18.00 Symposium 2

Neurological disorders and sleep

Chairs: Claudio Bassetti (Zurich, Switzerland), Elio Lugaresi (Bologna, Italy)

Parkinson and sleep

I. Arnulf

Sleep, EEG and dementia

J. Montplaisir, D. Petit

Epilepsy and sleep

L. Ferini-Strambi

Stroke and sleep

C. Bassetti

Small Hall

16.00 – 18.00 Symposium 3

Sleep metabolism and weight regulation

Chairs: Karine Spiegel (Brussels, Belgium), Janet M. Mullington (Boston, USA)

Introduction

J. M. Mullington

Regulation of brain glycogen metabolism: Effects of sleep deprivation

J. M. Petit, C. Kopp, S. Lengacher, I. Allaman, A. A. Borbély, I. Tobler, P. J. Magistretti

Sleep loss and metabolism

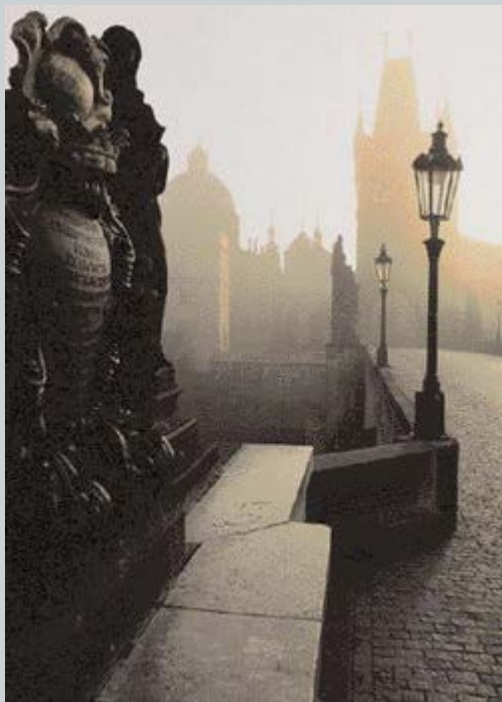
K. Spiegel, B. Mander, K. Knutson, E. Van Cauter

Orexins, leptin, weight regulation and sleep

T. Pollmächer, P. Beitinger, H. Himmerich, A. Schuld

Sleep disordered breathing and altered metabolic regulation

A. Vgontzas



17TH CONGRESS OF THE
**E U R O P E A N
S L E E P
R E S E A R C H
S O C I E T Y**

OCTOBER 5–9 , 2004
Prague, Czech Republic

SCIENTIFIC PROGRAMME

WEDNESDAY, OCTOBER 6, 2004

THURSDAY, OCTOBER 7, 2004

FRIDAY, OCTOBER 8, 2004

SATURDAY, OCTOBER 9, 2004

THURSDAY, OCTOBER 7, 2004

Forum Hall

8.30 – 10.30 Oral Presentation 1

Sleep habits, health consequences

Chairs: Antonio Vela-Bueno (Madrid, Spain), Michael V. Vitiello (Seattle, USA)

8.30 – 8.45 Cross-cultural comparison of sleep duration: Belgium, Italy and the U.S.

K. L. Knutson, F. Latta, K. Spiegel, E. Van Cauter

8.45 – 9.00 Risk of mortality associated with sleep duration in a random general population sample

O. E. Bixler, A. N. Vgontzas, H. -M. Lin, S. Calhoun, A. Vela-Bueno, A. Kales

9.00 – 9.15 Burnout is associated with markedly reduced sleep efficiency, SWS and suppression of spectral power density

M. Ekstedt, M. Söderström, T. Åkerstedt, J. Nilsson, A. Perski

9.15 – 9.30 High incidence of diabetes in males with sleep complaints or short sleep duration: a 12-year follow-up study of a middle-aged population

L. Mallon, J. -E. Broman, J. Hetta

9.30 – 9.45 Diastolic blood pressure (DBP) and mean arterial pressure (MAP) are significantly higher in sleep-restricted individuals

J. Broussard, M. Haack, J. Serrador, J. M. Mullington

9.45 – 10.00 Differential vulnerability to sleep loss

H. P. A. Van Dongen, G. Maislin, D. F. Dinges

10.00 – 10.15 Atherosclerotic disease of the carotid arteries in sleep-disordered

breathing

D. Kaynak, B. Goksan, H. Kaynak, N. Degirmenci, S. Daglioglu

10.15 – 10.30 Sleep habits and car accidents in young people

F. Cirignotta, S. Mondini, A. Baldi, S. Nardini, C. La Morgia, B. Mostacci
Meeting Hall 1

8.30 – 10.30 Oral Presentation 2

Clinical sleep disorders

Chairs: Fabio Cirignotta (Bologna, Italy), Charles Morin (Montréal, Canada)

8.30 – 8.45 A narcolepsy susceptibility locus maps to a 5Mb region of chromosome 21

Y. Dauvilliers, J. - L. Blouin, E. Neidhart, B. Carlander, S. E. Antonarakis, M. Billiard, M. Tafti

8.45 – 9.00 Polysomnography, a new means for human African trypanosomiasis stage diagnosis

A. Buguet, R. Cespuglio, S. Bisser, F. Chapotot, T. Josenando, M. Dumas

9.00 – 9.15 Evoked K-complex production differentiates Alzheimer's disease and normal aging

K. Crowley, E. V. Sullivan, E. Adalsteinsson, A. Pfefferbaum, I. M. Colrain

9.15 – 9.30 Sleep disturbances in borderline personality disorder - just a misperception?

A. Philipson, B. Feige, A. Al-Shajlawi, M. Bohus, H. Richter, U. Voderholzer, K. Lieb, D. Riemann

9.30 – 9.45 Association between cognitive performance and insomnia among the elderly

I. Haimov, E. Hanuka, T. Spira, B. Hadad, O. Shefer, N. Breznitz, S. Breznitz

9.45 – 10.00 Neuroanatomical correlates of depression severity during REM sleep

A. Germain, D. Buysse, J. Miewald, E. Notzinger

10.00 – 10.15 RBD and hallucinations in Parkinson disease

R. Manni, C. Pacchetti, R. Zangaglia, M. Terzaghi, F. Mancini, C. Silvano, E. Martignoni, G. Nappi

10.15 – 10.30 Self-help treatment for insomnia delivered in the context of a community-based epidemiological study

C. M. Morin, S. Beaulieu-Bonneau, M. LeBlanc

Small Hall

8.30 – 10.30 Oral Presentation 3

Pharmacology of sleep

Chairs: Göran Hajak (Regensburg, Germany), Michael J. Thorpy (Scarsdale, USA)

8.30 – 8.45 Effect of repeated gaboxadol administration on night sleep and next-day performance in healthy elderly subjects

S. Mathias, J. Zihl, A. Steiger, M. Lancel

8.45 – 9.00 Modafinil improves excessive sleepiness associated with shift work sleep disorder

C. A. Czeisler, J. K. Walsh, T. Roth, R. J. Hughes, K. P. Wright, L. Kingsbury, S. Arora, J. R. L. Schwartz, G. Niebler, D. F. Dinges

9.00 – 9.15 Changes on sleep architecture after antipsychotic morning single oral doses in healthy subjects

S. Giménez, S. Clos, A. Morte, S. Romero, E. Grasa, M. J. Barbanoj

9.15 – 9.30 Tolerability of modafinil in disorders of sleep and wakefulness

M. J. Thorpy, J. Black, M. K. Erman, J. R. L. Schwarz

9.30 – 9.45 Caffeine, dextroamphetamine, and modafinil during 85 hours of sleep deprivation. I. Psychomotor vigilance and objective alertness effects

T. Balkin, R. Reichardt, D. Thorne, W. Killgore, G. Belenky, N. Wesensten

9.45 – 10.00 Caffeine, dextroamphetamine and modafinil during 85 hours of sleep deprivation. III. Effect on recovery sleep and post-recovery sleep performance

G. Belenky, R. Reichardt, D. Thorne, W. Killgore, T. Balkin, N. Wesensten

10.00 – 10.15 Effects of a novel hypnotic compound, E-6116, compared to zolpidem on sleep and wakefulness in the mouse

C. Alexandre, A. Dordal, R. Sanchez, M. Hamon, J. Adrien

10.15 – 10.30 Paroxetine treatment for sleepwalking in adults

H. Bengtson, J. E. Broman, H. Smedje, J. Hetta

10.30 – 11.00 Coffee Break

Forum Hall

11.00 – 13.00 Symposium 4

**Update on narcolepsy. Symposium dedicated to the memory of Bedřich Roth
Chairs: Soňa Nevšimalová (Prague, Czech Republic), Michel Billiard (Montpellier, France)**

Introduction

S. Nevšimalová, M. Billiard, R. Broughton

Environmental factors in narcolepsy

M. Billiard, C. Orellana, Y. Dauvilliers

Immune, autoimmune and genetic aspects of narcolepsy

M. Tafti, Y. Dauvilliers, M. Lecendreux

Hypocretin (Orexin) deficiency in animal and human narcolepsy

E. Mignot

Brain morphology in narcolepsy

P. Geisler, B. Draganski, G. Hajak, A. May

Meeting Hall 1

11.00 – 13.00 Symposium 5

**Effects of light on sleep, performance and rhythms: novel mechanisms
Chairs: Christian Cajochen (Basel, Switzerland), Claude Gronfier (Bron, France)**

The non-image forming visual system and circadian photoreception in mice

R. Lucas

Wavelength dependent effects of light on vigilance and performance

S. W. Lockley, E. E. Evans, G. C. Brainard, C. A. Czeisler, D. Aeschbach

Entrainment of the human circadian pacemaker by light and its relation to sleep and neurobehavioral function

C. Gronfier

Sleepiness and driving simulator performance after sleep loss: Effect of light

S. M. W. Rajaratnam, J. Phipps-Nelson, C. Swann, D. -J. Dijk, G. W. Yelland, J. R. Redman
Small Hall

11.00 – 13.00 Symposium 6

The inner life of neurons in sleep: signalling pathways, genes and proteins

Chairs: Radhika Basheer (Boston, USA), James M. Krueger (Pullman, USA)

Sleep genes and fly sleep: A molecular window on sleep

C. Cirelli

Genes regulating sleep EEG activities

T. Tafti, S. Maret, P. Franken

Sleep deprivation-induced alterations in cytoskeletal and synaptic proteins

R. Basheer, V. Ramesh, R. W. McCarley

Local regulation of cortical sleep; activity dependency and cytokine involvement

J. M. Krueger, D. Rector, T. Yasuda, H. Yoshida, K. Yasuda, L. Churchill, F. Obál Jr.

13.00 – 13.30 Lunch

Meeting Hall IV

13.30 - 14.30 Clinical case presentation 1

Chairs: Yves Dauvilliers (Montpellier, France), Emmanuel Mignot (Palo Alto, USA)

13.30 – 13.50 Narcolepsy in infancy – a case study analysis

B. M. Hood, M. Harbord

13.50 – 14.10 IVIg treatment in narcolepsy: report on two new cases

Y. Dauvilliers, B. Carlander, F. Rivier, J. Touchon, M. Tafti

14.10 – 14.30 The effect of NIPPV in siblings with sleep disordered breathing associated with juvenile type of acid maltase deficiency

N. Tachibana, S. Nabatame, N. Kamio, N. Sakai, M. Taniike, E. Ozono

Small Hall

13.30 - 14.30 Video session 1

Unusual motor events during sleep

Chairs: Birgit Högl (Innsbruck, Austria), Jacques Montplaisir (Montréal, Canada)

RBD and other scenic behavior during sleep

J. Montplaisir

Unusual presentations of PLM

E. Brandauer

Other myoclonic events during sleep

B. Högl

Unusual orofacial movements during sleep

G. Lavigne

Meeting Hall V

13.30 - 14.30 Debate session

What is sleep debt?

Chair: Alexander A. Borbély (Zurich, Switzerland)

Participants:

A. A. Borbély, D. F. Dinges, J. A. Horne

14.30 – 16.00 Poster presentation 2

**Club
Children + Pediatrics II**

- P002 Effect of sleep stage and thermal condition on the apneas in the preterm neonate**
V. Cardot, P. Tourneux, K. Chardon, F. Telliez, S. Delanaud, A. Leke, V. Bach
- P006 Sleep apneas in premature infants evoked by gastro-esophageal reflux**
K. Paul, J. Melichar, J. Miletín, J. Dittrichová
- P010 Sleep disturbance in Smith-Magenis syndrome**
R. Carpizo, L. A. Blanco, M. Grado, E. Sánchez Barceló, R. Fernandez, A. Jimenez
- P014 Hypocretin-1 level in the cerebrospinal fluid is not elevated in patients with Angelman syndrome**
R. Miyata, W. Furushima, Y. Sugawara, S. Araki, T. Hasegawa, J. Kohyama, T. Kanbayashi
- P018 Sleep in Prader Willi syndrome, a study in young, non adipose children**
R. A. S. Van den Bossche, D. Festen, A. Hokken, A. W. de Weerd
- P022 Hypocretin deficiency in Prader-Willi syndrome**
S. Nevšimalová, J. Vaňková, I. Štěpánová, E. Seemanová, E. Mignot, S. Nishino
- P026 Actigraphy in Prader Willi syndrome**
M. Turci, R. A. S. van den Bossche, A. W. de Weerd
- P030 Immunocytochemical staining of hypothalamic hypocretin neurons in Prader-Willi patients**
R. Fronczek, U. Unmehopa, R. Balesar, G. J. Lammers, D. Swaab
- P034 Sleep in children with cardiac disease**
D. S. Ykeda, R. S. C. Alves, A. Figueiredo, G. Lorenzi-Filho
- P038 Comprehensive sleep investigation in children and adolescents with autism by means of questionnaires, actigraphy and polysomnography**
S. Miano, R. Ferri, M. Elia, O. Bruni, A. Smerieri, M. G. Terzano
- P042 Obesity and RDI show a curvilinear relationship in children aged 2-15 years with a history of frequent snoring**
M. J. Kohler, J. D. Kennedy, A. J. Martin, C. van den Heuvel, Y. Pamula, K. Lushington
- P046 The impact of pain and dysfunction in sleep of children with polyarticular juvenile idiopathic arthritis**
S. Roizenblatt, C. M. Passarelli, C. A. Len, G. A. Moreira, A. C. Rosa, M. O. E. Hilario, S. Tufik
- P050 Type 1 diabetes mellitus and restless legs syndrome in childhood**
S. Happe, N. Treptau, R. Ziegler
- P053 Sleep disturbance in children with chronic renal failure**
T. Omori, J. Kohyama, M. Ito, Y. Mizusawa, M. Hattori, K. Ito

P056 My child has a sleep problem; mine doesn't

A. M. Robinson, A. L. Richdale

P059 Sleep-wake cycles in obese children with and without binge eating episodes

O. Tzischinsky, Y. Latzer, R. Epstein

P062 All-night sleeping EEG in developmental language disorder

K. Štěrbová, L. Faladová, V. Komárek, P. Kršek, J. Žáčková

P065 Impact of "cramming school" on sleep-wake rhythm disorders

F. Horiuchi, Y. Oka, N. Uyama, Y. Hasui, M. Ikeda, H. Tanabe

P068 Childhood sleep problems and adulthood anxiety

A. M. Gregory, A. Caspi, T. C. Eley, T. E. Moffitt, T. G. O'Connor, R. Poulton

P071 Sleep problems and anxiety in pre-school aged twin

A. M. Gregory, T. C. Eley, T. G. O'Connor, F. Rijdsdijk, R. Plomin

**Panorama Hall
Physiology, Neurophysiology II**

P077 Localization of the brainstem cholinergic and non-cholinergic neurons responsible for rat paradoxical sleep onset and maintenance

L. Verret, L. Léger, P. Fort, P. H. Luppi

P081 Inactivation of the excitatory cortical projections to caudate nucleus during sleep

A. A. Loshkarev, E. I. Rodionova, E. V. Levichkina, I. N. Pigarev

P085 Non-REM sleep and basal forebrain GABA levels of young and aged female rats during normal and altered sleep-wake cycle

V. Matto, A. Kalinchuk, L. Alanko, H. -K. Wigren, D. Stenberg, T. Porkka-Heiskanen

P089 Modulation by adenosine of the sleep-promoting neurons in the ventrolateral preoptic nucleus

T. Gallopin, P. -H. Luppi, P. Fort

P093 Local unilateral application of IL1 beta into the barrel field induces asymmetries in FOS-immunoreactivity

K. Yasuda, L. Churchill, K. Blindheim, M. Falter, T. Yasuda, J. M. Krueger

P097 Dynamic pattern of the viscerocortical projections during sleep. Study in New Zealand rabbits

I. N. Pigarev, H. Almirall, J. Marimon, M. Pigareva

P101 Interruption of the natural sleep pattern before or during rat's pregnancy increase pup's mortality

M. L. Pigareva

P105 Three inbred strains of rats demonstrate significant differences in slow wave sleep and activity before and after total sleep deprivation

T. R. Feroah, T. Sleeper, D. Brozoski, T. B. Rice, H. V. Forster

P109 Role of alpha-1 adrenoceptors at the medial preoptic area in the regulation of sleep

R. Vetrivelan, H. N. Mallick, V. M. Kumar

P113 Orexinergic regulation in histamine and norepinephrine releases

T. Kodama, Y. Honda, S. Usui, H. Onoe, M. Kimura

- P117 Actions of ghrelin in the myenteric plexus of the guinea-pig small intestine**
Y. Katayama, T. Homma, K. Hirai, K. Honda
- P121 The effects of light/dark cycle on EEG slow wave power of the somatosensory cortex and visual cortex**
T. Yasuda, K. Yasuda, J. M. Krueger
- P125 The neurotransmitters expressed in Fos-positive hypothalamic neurons responsive to sleep deprivation or diurnal rhythm**
Z. Péterfi, F. Obal Jr. , A. Parducz, L. Siklos, J. M. Krueger
- P129 Organization of spindle oscillations in thalamocortical system**
R. V. Yassenkov, A. A. Burikov, A. G. Sukhov
- P133 Sleep wake profile and EEG spectral power in Ube3a maternal-deficient mice**
D. Colas, J. Wagstaff, R. Cespuglio, N. Sarda
- P137 Biochemical, physiological and pharmacological characteristics of inducible NO synthase in senescence accelerated mice: a role in the paradoxical sleep control during aging**
N. Sarda, D. Colas, L. Bezin, A. Morales, D. Koubi, A. Gharib, R. Cespuglio
- P141 Dreaming and schizophrenia have the same neurochemical background**
I. Lena, O. Deschaux, S. Muffat, S. Parrot, V. Sauvinet, M. F. Suaud-Chagny, B. Renaud, C. Gottesmann
- P145 Modelling of auditory evoked potentials of sleep-wake states in humans**
A. M. L. Coenen
- P149 Spindle frequencies during deep sleep**
R. Geurts, S. -L. Himanen, G. Ruigt, B. Kemp
- P153 Differential first-night effect on sleep spindle density and sigma EEG activity**
M. A. Gingras, E. Chevrier, R. Godbout
- P157 Homeostatic frequencies show curvilinear declines across NREMPs for normalized power/min: a correction and extension**
I. Feinberg, N. Darchia, I. G. Campbell
- P161 A prominent role for amygdalod'd complexes in the variability of heart rate during rapid eye movement (REM) sleep**
M. Desseilles, S. Laureys, T. Dang Vu, P. Peigneux, P. Maquet
- P165 Sleepiness produces hyperalgesia**
T. Roehrs, B. Blaisdell, T. Roth
- P169 High CAP rate: a case report**
A. Rosa, C. Lopes-Conceição, T. Almeida, D. Poyares
- P171 Characterization of 7-12 Hz EEG oscillations during sleep-wake cycle in freely-moving rats**
G. Marini, P. Ceccarelli, M. Mancia

Behaviour, Driving

- P173 Effect of partial sleep deprivation on subsequent alertness in cars drivers**
S. Otmani, A. Muzet
- P177 Sleepiness whilst driving - daytime sleepiness in motorway - drivers: results of two field studies**

H. -G. Weess, R. Binder, T. Schürmann, B. Wilhelm, H. Lüdke, W. Grellner, R. Steinberg

P181 Fatigue and driving: effects of age

G. Kecklund, A. Anund, B. Peters, T. Åkerstedt

P185 Prevalence of daytime sleepiness in a group of Turkish public drivers

L. Öztürk, C. Özer

P189 Subjective sleepiness predicts subsequent risk of accidents in a driving simulator

T. Åkerstedt, B. Peters, A. Anund, G. Kecklund

P 193 Wakefulness in young and old drivers at night in a car simulator

A. Lowden, T. Åkerstedt, A. Anund, B. Peters, J. Nilsson, G. Kecklund

P197 Sleepiness and nocturnal driving safety: a study on risk perception in young drivers

F. Lucidi, P. M. Russo, M. Lauriola, A. Devoto, L. Mallia, C. Violani

P201 Sleep related truck crashes in the UK: crash outcome, time of day and driver age

D. Flatley, J. A. Horne

P205 Sleep patterns and driving accidents in adolescents and young adults

D. M. Rodriguez, J. A. Groeger, D. -J. Dijk

P209 Seasonal variation in the role of sleepiness in fatal crashes

H. Summala, I. Radun

P213 Effect of partial sleep deprivation in the middle of night on driving task performances in young and old drivers

G. Tirilly, J. Favand, D. Davenne, J. Foret, P. Denise, A. Pottier

P217 Driving simulation performance following ambulatory anesthesia

H. J. Moller, L. Kayumov, F. Chung, C. M. Shapiro

P221 An evaluation of sleepiness and sleep, en-route, in South African. Long-distance truck drivers.

M. L. Baker, N. Shah, F. C. Baker

P225 Drowsiness during night driving: differences between age groups

A. Muzet, J. Rogé, M. Moessinger, S. Otmani, T. Pebayle

P229 A prior sleep/wake model of fatigue-related accident risk in truck drivers

J. Dorrian, M. Sweeney, D. Dawson

P233 Professional shift-work drivers adopting prophylactic naps can reduce the risk of car accidents during night-work

S. Garbarino, B. Mascialino, M. A. Penco, S. Squarcia, F. De Carli, L. Nobili, M. Beelke, F. Ferrillo

P237 Aircrew sleep onboard eastward return flights

B. M. Stone, M. B. Spencer, K. A. Robertson, I. Hosegood, R. Howell

P241 A monotonous driving task for evaluation of sleepiness in OSAS patients

S. Mondini, F. Pizza, S. Contardi, F. Cirignotta

- P245 Relationship between aging, estrus cycle and motor activity in two inbred mouse strains**
C. Kopp, V. Ressel, E. Wigger, I. Tobler
- P249 Rhythms of activity/inactivity and immune response in diurnal animals (ring dove): Influence of tryptophan**
J. Cubero, A. B. Rodríguez, V. Valero, C. Barriga
- P253 Synchronizing and modulating effects of geophysical variables on the rest-activity rhythm of the spider monkey *Ateles geoffroyi***
M. Corsi-Cabrera, J. Muñoz-Delgado, D. Canales-Espinosa, A. M. Santillán-Doherty, H. G. Erkert
- P257 Acute effect of Δ^9 -tetrahydrocannabinol on activity-inactivity cycle in rat**
D. Moranta, S. Aparicio, C. Garau, S. Esteban, J. A. García-Sevilla
- P260 Effects of a novel melatonin derivative on sleep-wake cycle in rats**
M. A. Akanmu, C. Songkram, H. Kagechika, K. Honda
- P263 Body temperature circadian rhythms under to different light regimes in the rabbit.**
H. Almirall, J. Marimon, M. Pigareva, I. Pigarev
- P266 Effects of nocturnal light exposure on behavioral development in rats**
S. Usui, Y. Honda
- P269 Effect of L-tryptophan on motor activity, melatonin, and the innate immune response in rats**
C. Barriga, J. Cubero, S. Esteban, C. Garau, S. Aparicio, A. B. Rodríguez
- P272 Effects of tryptophan and melatonin ingestion on activity-inactivity rhythms in young and old turtle doves**
M. C. Nicolau, C. Garau, S. Aparicio, C. Barriga, A. B. Rodríguez, S. Esteban
- P275 Homeostatic regulation of activity-rest cycles in reptiles**
R. V. Rial, L. I. Gené, A. Muñoz, C. Roca, M. Akaârîr, M. C. Nicolau

North Hall Instrumentation - Methodology I

- P281 Characteristics of K-complexes in 189 healthy controls aged between 20 and 95 years and in 51 apnea patients**
S. Parapatics, P. Anderer, G. Gruber, T. Miazhyńskaia, M. Woertz, G. Dorffner
- P285 Independent components analysis of sleep evoked responses: the effects of K-complexes and aging**
I. M. Colrain, C. W. Ponton
- P289 Automatic K-complex detection: comparison of two different approaches**
M. Woertz, T. Miazhyńskaia, P. Anderer, G. Dorffner
- P293 QRS artifact elimination on full night sleep EEG**
J. -P. Lanquart, P. Linkowski
- P297 Comparison of the sleep fragmentation index (SFI) and the micro-arousal index (MAI)**
J. Haba-Rubio, V. Ibanez, E. Sforza
- P301 Progressive detrended fluctuation analysis (PDFA) and other numerical methods applied on sleep ECG for sleep stage reconstruction and arousal detection**

S. Telser, M. Staudacher, Y. Ploner, A. Amann, H. Hinterhuber, M. Ritsch-Martel

P305 A self-tuned method for automatic cyclic alternating pattern classification in sleep

R. S. Largo, M. C. Lopes-Conceição, A.C. Rosa

P309 Automated procedures for sleep-waking staging in infants

C. M. Held, J. E. Heiss, P. A. Estévez, C. A. Perez, C. A. Holzmann, J. P. Pérez, M. I. Garrido, C. R. Algarín, P. Peirano

P313 Automatic sleep spindle detection validated in 167 hours of sleep recordings from 278 healthy controls and patients

P. Anderer, T. Miazhyńska, G. Gruber, S. Parapatics, M. Woertz, B. Saletu, G. Dorffner

P317 Online detection of slow wave sleep using electro-oculography

J. Virkkala, S. -L. Himanen, J. Hasan, K. Müller

P321 Visual selection of frontopolar slow waves of sleep

S. -L. Himanen, A. Joutsen, J. Virkkala

P325 Temperature changes in different locations of the body in conjunction with sleep

D. Lorr, J. Wren, D. Loyd, E. Svanborg

P329 Multiple sleep latency testing in Australia and New Zealand

G. Doyle, R. L. Riha

Pharmacology - Animal

P333 Role of dopamine in methamphetamine-induced arousal in *Drosophila*

R. Andretic, B. van Swinderen, R. J. Greenspan

P337 Alpha(1) GABA(A) receptors mediate the effect of zolpidem on the sleep EEG, but not its hypnotic action

C. Kopp, U. Rudolph, I. Tobler

P341 Dose related effect on sleep of bicuculline perfused in DRN

E. Fiske, J. Gronli, F. Hamre, C. M. Portas, R. Ursin

P345 Increased wakefulness, motor activity and decreased theta activity after selective blockade of the 5-HT_{2b} receptor by the subtype-selective antagonist SB-215505

S. Kantor, R. Jakus, B. Balogh, A. Benko, G. Bagdy

P349 Acute and chronic administration of nicotine combined with fluoxetine on sleep in rats

G. Vazquez-Palacios, H. Bonilla-Jaime, J. Velázquez-Moctezuma

P353 Enhancement by modafinil of the noradrenergic inhibition of sleep-promoting neurons in the ventrolateral preoptic nucleus

T. Gallopin, P. H. Luppi, F. A. Rambert, A. Frydman, P. Fort

P357 Participation of muscarinic receptors in the regulation of sleep at basal forebrain and pontine level

A. Jimenez Anguiano, H. García-Fuentes, A. Kiel-Martínez, E. Esqueda-León, J. C. Manrique-Arias, J. Velázquez-Moctezuma

P361 Effects of [S,S]-reboxetine, a selective inhibitor of noradrenaline reuptake, on sleep in rats

Z. Lelkes, S. P. Arneric, M. Hajós

P364 REM sleep generation in aged rats: a key role for inducible nitric oxide synthase (INOS)

A. Gharib, P. Clement, N. Sarda, R. Cespuglio

Terrace 1

Medical Sleep in Other Disorders

P375 Sleep-wake cycle, motor activity and eating habits in obese shiftworkers

A. Bonnefond, O. Rohmer, A. Muzet, P. Tassi

P379 Reduced total sleep time: obesity and diabetes in a population-based sample

C. L. Drake, T. Roehrs, E. Johnson, C. Jefferson, T. Roth

P383 Morbidly obese women have less slow wave activity than their age and gender matched controls

R. Leproult, E. Tasali, T. Saaresranta, S. Pannain, A. Miller, J. Alverdy, E. Van Cauter

P387 Assessment of sleep parameters in cirrhotic patients

L. M. Lucchesi, V. Teodoro, M. A. Bragagnolo Jr. , A. P. Mendonça, A. A. Benedito-Silva, S. Tufik

P391 Sleepiness and sleep disturbances in cirrhosis. A case control study

S. Mondini, B. Mostacci, E. Sancisi, A. Baldi, F. Cirignotta

P395 The impact of acid GER in sleep of asthmatic patients

L. Mello-Fujita, L. Bittencourt, S. Roizenblatt, C. Frison, R. Lino Jr. , A. C. Rosa, S. Tufik

P399 Detection of sleep-related gastroesophageal reflux without esophageal pH monitoring

A. S. Baran, K. Ansarin, A.C. Richert

P402 Sleep disorders in outpatients with diabetes mellitus

K. Jakuszkowiak, J. Jakitowicz, K. Pietruczuk, Z. Nowicki, E. Orłowska-Kunikowska

P405 Impaired awakening response to nocturnal hypoglycemia in patients with type 1 diabetes mellitus

B. Schultes, S. Gais, K. Chara, W. Kern, A. Peters, H. L. Fehm, J. Born

P408 Sleep complaints and sleep assessment using actigraphy in cystic fibrosis

R. P. Skomro, L. King

P411 Rhythm disturbances in post myocardial infarction patients with nocturnal oxyhaemoglobin desaturation

B. Pencic, M. Dekleva, V. Celic, S. Dimkovic, V. Bosnjak, Z. Vasiljevic

P414 Nocturnal sleep in essential hypertension

A. Prejbisz, A. Dabrowska, M. Kabat, M. Makowiecka-Cieśła, S. Niemcewicz, J. Janas, E. Trzepla, A. Januszewicz, W. Szelenberger

P416 Nocturnal sleep in patients with concurrent diagnoses of insomnia and essential hypertension

A. J. Dabrowska, A. Prejbisz, M. Kabat, T. Piotrowski, S. Niemcewicz, M. Cieśła, J. Janas, A. Januszewicz, W. Szelenberger

P417 Sleep parameters in patients using cardiac pacemakers with sleep rate function on

R. S. Silva, L. R. A. Bittencourt, R. N. A. Vargas, O. D. C. Coelho, R. Mazzo, O. T. Greco, M. A. Borges, D. M. B. Melatto, P. R. A. Gauch, S. Tufik

P418 Psychological behavioural symptoms and sleep quality in patients with stable coronary artery disease

U. Edéll-Gustafsson, E. Svanborg, E. Swahn

P419 Improvement in sleep, cognitive, psychological and sympathetic activity concomitant to tender point analgesia in fibromyalgia

T. F. Almeida, S. Roizenblatt, D. Poyares, M. J. M. Dias, A. C. Rosa, Ch. Guillemineault, S. Tufik

P420 EEG slow-wave activity: a potential marker of the nervous phase of human African trypanosomiasis

F. Chapotot, S. Bisser, A. Panzo, T. Josenando, A. Buguet

P421 Neurovascular control in patients with hypertension, cerebrovascular disease and sleep disorders

R. Silvestri, G. Mento, I. Aricñ, M. Raffaele, G. Gorgone, C. Casella, C. Di Perri, R. Di Perri

P422 Sleep EEG power spectrum and CAP in fatigue patients

D. Poyares, C. Guillemineault, A.C. Rosa, T. Almeida, M. C. Lopes-Conceição, C. Guimarães, S. Roisenblatt, C. Kirisoglu, S. Tufik

P423 Impaired recovery - possible early sign of burnout?

M. Söderström, M. Ekstedt, T. Åkerstedt, J. Nilsson, J. Axelsson

**Terrace 2
Psychiatry - Personality**

P425 Sleep problems related to past depression among psychiatrists

F. Hillvesson, S. Lindholm, P. Vestergren, J. Hetta

P429 Rest-activity cycles in childhood and adolescent depression

R. Armitage, R. Hoffmann, G. Emslie

P433 Sleep EEG during a major depression (MDD) episode

M. A. Quera Salva, J. Laredo, F. Chapotot, B. Vannier, J. C. Alvarez, M. Bohic, C. Moulin, D. Morlat, C. de Bodinat, F. Lofaso, C. Guillemineault

P437 Slow-wave microcontinuity analysis in major depressive disorders

B. Kemp, R. Armitage, R. F. Hoffmann, M.J. Roessen

P441 Sleep deprivation and motor activity in depressed patients

T. U. Brückner, Z. Veselý, C. Pohl, M. H. Wiegand

P445 Sleep spindles during the period of entering REM sleep in depression

W. Jernajczyk, J. Antczak, L. Czerwos

P449 Changes of EEG spectra and coherences in deep sleep related to anxiety score

M. Brunovský, K. Červená, M. Matoušek, L. Závesická, V. Krajča

P453 Daytime sleepiness among women is associated with anxiety, depression and climateric symptoms

B. Benediktsdóttir, T. Gíslason, K. Tómasson

P457 Sleep disturbances in patients treated for panic disorder

L. Závesická, K. Červená, M. Brunovský, M. Matoušek, B. Pásková, J. Praško

P461 Evoked K-complexes to personally salient stimuli in PTSD

P. L. Franzen, R. R. Bootzin, S. H. Woodward, I. M. Colrain

- P465 Disturbed sleep in war veterans according overnight polysomnography - automatic analysis**
R. Buljan, K. Hrabrić
- P469 Psychoemotional condition and sleep disturbances in patients with posttraumatic stress disorder**
D. Valadkeviciene, D. Jatuzis, J. Gaudesiene, G. J. Rimdeika
- P473 Sleepless in Chicago: tracking the effects of adolescent sleep loss during the middle school years**
K. Fredriksen, J. Rhodes, R. Reddy
- P477 Association between alterations in slow wave sleep and impairment of memory in patients with schizophrenia**
R. Göder, G. Fritzer, M. Boigs, S. Braun, J. Aldenhoff, D. Hinze-Selch
- P481 Sleep and dream patterns of patients with eating disorders**
G. Kloesch, B. Holzinger, P. Schuessler, S. Parapatits, M. De Zwaan, P. Gathmann, B. Saletu
- P485 Impaired attentional capacity and executive functioning among burn-out subjects with poor sleep**
J. Nilsson, M. Söderström, M. Ekstedt, T. Åkerstedt
- P489 The circadian rest-activity cycle in Korsakoff's psychosis**
A. Wirz-Justice, C. Schröder, P. Fontana Gasio, E. Savaskan
- P493 Daytime sleepiness in early stages of Alzheimer's disease**
E. Bonanni, M. Maestri, G. Tognoni, M. Fabbrini, B. Nucciarone, S. Gori, A. Iudice, L. Murri
- P497 Bright light treatment reduces actigraphic measured daytime sleep in demented nursing home patients**
A. Fetveit, B. Bjorvatn
- P501 Impact of respite care on sleep disturbance in dementia caregiving**
D. Lee, K. Morgan, J. Lindsay

Foyer
Sleep Respiratory Disturbances II

- P523 Neuropsychological assessment of patients treated for obstructive sleep apnea syndrome**
Z. Szakács, P. Köves, M. Molnár, E. Farkasinszki
- P527 Anxiety and depression in OSAS patients**
M. G. Poluektov, I. Y. Koshelev, D. V. Fishkin, Y. I. Levin
- P531 Vigilance in case of sleep apnea syndrome and neurological disorders**
A. Büttner, S. Latarnik, S. Rode, H. Remer, M. Kolar, H. Bennefeld, K. H. Rühle
- P535 Obstructive sleep apnea significantly aggravated postictal hypersomnia in a patient with generalized seizures**
Y. Oka, F. Horiuchi, Y. Tokui, M. Inoue, R. Ootani, K. Hokoishi, M. Ikeda, A. Ikeda, H. Tanabe
- P539 Brain function in sleep apnea – results from an international brain database**
R. Grunstein, K. Wong, D. Bartlett, E. Gordon

- P543 Attentional networks and obstructive sleep apnea syndrome**
S. Koterle, C. Cavallero, P. Dolso, G. L. Gigli
- P547 Executive attention in sleep apnea patients**
E. Verstraeten, R. Cluydts, D. Pevernagie, G. Hoffmann
- P551 Cognitive impairment in patients with sleep apnea/hypopnea syndrome (SAHS)**
C. Ilioudi, E. Daskalopoulou, I. Nimatoudis, B. Bizeli, F. Kargopoulos, E. Vlahogiannis, G. Kaprinis
- P555 Interesting cases of changes in sleep-wakefulness state in sleep apnoea patients**
V. Donic, Z. Tomori, M. Tormasiova, E. Feketeova
- P559 Sleep disordered breathing in the elderly**
O. Köktürk, T. Ulukavak Ciftci
- P563 Clinical, anthropometric and polysomnographic features of REM-related breathing disorder (REM-SRBD)**
J. Haba-Rubio, V. Ibanez, T. Rochat, E. Sforza
- P567 Correlates of snoring in a large representative population sample**
R. Zoller, M. Novak, A. Dunai, L. Szeifert, I. Mucsi, M. S. Kopp
- P571 Characteristics of symptoms and background variables in familial obstructive sleep apnea-hypopnea syndrome**
Y. Inoue, K. Namba, S. Higami, Y. Honda
- P575 Breathing during sleep in women referred to a sleep unit**
E. Nena, A. Manousaki, E. Serasli, A. Chasiotou, V. Tsara
- P579 The effect of oxygen saturation on EEG frequency in obstructive sleep apnea patients**
Z. Pelin, L. Ozturk, A. Akyüz
- P583 Arousal and sleep fragmentation in patients with different levels of sleep disordered breathing**
Z. Tomori, V. Donič, V. Doničová
- P587 Anthropometric and polysomnographic data in positional vs non positional sleep apneic patients**
E. Perraki, E. Vagiakis, I. Lagogianni, I. Tzialidou, A. Minaritzoglou, A. Alexandropoulou, M. Boulda, C. Roussos
- P591 Positional apnea and its occurrence in different sleep positions**
E. Vagiakis, E. Perraki, I. Lagogianni, A. Minaritzoglou, M. Boulda, A. Sgora, A. Alexandropoulou, C. Roussos
- P595 Polysomnographic differences between pre and postmenopausal apneic women**
A. Vagiakis, I. Lagogianni, E. Perraki, A. Minaritzoglou, A. Sgora, M. Boulda, M. Petrosyan, C. Roussos
- P599 Plasma vascular endothelial growth factor levels in patients with obstructive sleep apnea-hypopnea syndrome**
M. I. Bardakçi, H. Firat, Z. Dansuk, Ç. P. Taştan Dursun, P. Alagöz, M. Z. Yildirim, S. Ardiç
- P603 Sleep apnea hypopnea index is an independent predictor of CRP elevation**
K. Z. Boudjeltia, A. Van Meerhaeghe, S. Doumit, P. Cauchie, D. Brohé, M. Vanhaeverbeek, M. Kerkhofs

P606 Endothelial dysfunction in sleep disordered breathing: PAI-1 and E-selectine correlate with SAS severity

A. Marfaing-Koka, G. Roisman, H. Nedelcoux, C. Barbet, P. Escourrou, P. Bourgin

Forum Hall

16.00 – 17.00 State of the art lecture 3

Chair: Derk-Jan Dijk (Guildford, United Kingdom)

Memory consolidation during human sleep

Jan Born (Lübeck, Germany)

Meeting Hall I

16.00 – 17.00 State of the art lecture 4

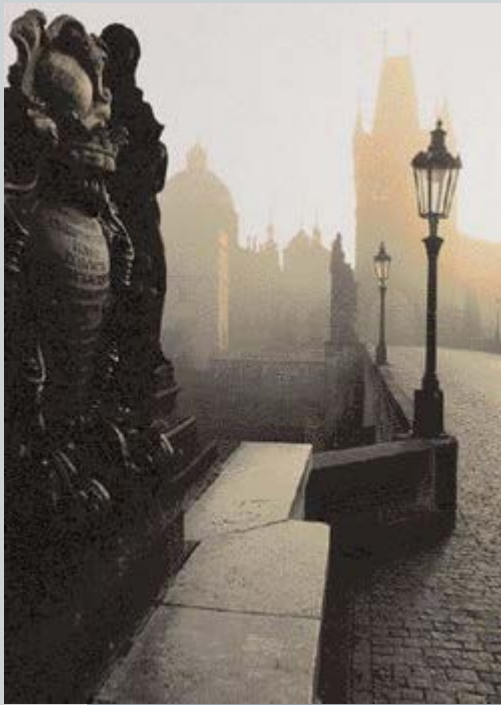
Chair: Tarja Porkka-Heiskanen (Helsinki, Finland)

Adolescent development: Sleep regulation, sleep patterns, and public policy implications

Mary Carskadon (Providence, USA)

Forum Hall

17.00 -19.30 Business Meeting



17TH CONGRESS OF THE
**E U R O P E A N
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S O C I E T Y**

OCTOBER 5–9 , 2004
Prague, Czech Republic

SCIENTIFIC PROGRAMME

WEDNESDAY, OCTOBER 6, 2004

THURSDAY, OCTOBER 7, 2004

FRIDAY, OCTOBER 8, 2004

SATURDAY, OCTOBER 9, 2004

FRIDAY, OCTOBER 8, 2004

Forum Hall

8.30 – 10.30 Symposium 7

Diagnostic and pathophysiology advances in sleep related breathing disorders
Chairs: Thomas Penzel (Marburg, Germany), Jan Hedner (Göteborg, Sweden)

Genetics of OSA-obesity and clinical aspects

T. Gislason

Oxidative and cellular injury in obstructive sleep apnea

L. Lavie

Sleep related breathing disorders and impaired cardiac function

I. Fietze

Ambulatory or in-lab polysomnography for sleep apnoea

T. Penzel, K. Kesper, H. F. Becker, C. Vogelmeier

Meeting Hall 1

8.30 – 10.30 Symposium 8

Fatigue sleepiness and road crashes; ESRS Task-Force Symposium
Chairs: Torbjorn Åkerstedt (Stockholm, Sweden), Pierre Philip (Bordeaux, France)

Introduction: Issues in driver fatigue

T. Åkerstedt

Behavioural changes in the drowsy driver

A. Muzet, J. Rogé

Fatigue, sleepiness and regulatory approaches to driving - are they well founded?

P. Philip

Why is young age a risk factor for sleep related car crashes?

G. Kecklund, T. Åkerstedt

Any alcohol consumption is dangerous for sleepy drivers

J. A. Horne, P. Barrett, L. Reyner

Small Hall

8.30 – 10.30 Symposium 9

Non-circadian roles for clock-genes

Chairs: Timo Partonen (Helsinki, Finland), Malcolm von Schantz (Surrey, United Kingdom)

A non-circadian role for clock-genes in sleep regulation

P. Franken

Insomnia: the influence of light and clock genes on sleep in Drosophila

P. Shaw

Correlations between clock gene polymorphisms and circadian and sleep phenotype

M. von Schantz

Clock-genes in relation to mood disorders

T. Partonen

10.30 – 11.00 Coffee break

Forum Hall

11.00 – 13.00 Oral Presentation 4

The slow-wave EEG: topographical and functional aspects

Chairs: Giulio Tononi (Madison, USA), Peter Achermann (Zurich, Switzerland)

11.00 – 11.15 Recovery following sleep deprivation - sleep and subjective sleep quality

*S. Jay, N. Lamond, J. Dorrian, S. Ferguson, T. Kong, S. Abdollahi,
C. B. Jones, D. Dawson*

11.15 – 11.30 The sleep slow oscillation is a traveling wave

M. Massimini, R. Huber, F. Ferrarelli, S. Hill, M. Mariotti, G. Tononi

11.30 – 11.45 The frontal predominance of EEG delta response to sleep loss disappears with age

*M. Münch, V. Knoblauch, K. Blatter, K. Kräuchi, C. Schröder, C. Schnitzler,
C. Renz, A. Wirz-Justice, Ch. Cajochen*

11.45 – 12.00 Intra-individual stability and inter-individual variability in sleep and sleep EEG variables

P. Achermann, I. Buckelmüller, H. -P. Landolt

12.00 – 12.15 Relationship between self-reported prior sleep quantity and cerebral activation in older adults

S. P. A. Drummond, W. S. Houston, M. W. Bondi

12.15 – 12.30 Asymmetry in Fos- and IL1 beta-immunoreactivity induced by IL1 beta microinjection into the cortex implicates the corticothalamic circuitry involved in EEG asymmetry

L. Churchill, K. Yasuda, K. Blindheim, M. Falter, T. Yasuda, J. M. Krueger

12.30 – 12.45 EEG interconnectivity in the 1 Hz range during 1st non-REMP – relation to prefrontal cortical (PFC) function

C. Anderson, J. A. Horne, J. R. Terry

12.45 – 13.00 Reduction of transcallosal connection upon awakening from REM sleep in humans as assessed by transcranial magnetic stimulation

M. Bertini, M. Ferrara, L. De Gennaro, G. Curcio, F. Fratello, V. Romei, F. Pauri, P. M. Rossini

Meeting Hall 1

11.00 – 13.00 Oral Presentation 5

Parasomnias: moving during sleep

Chairs: Geert Mayer (Schwalmstadt, Germany), Karel Šonka (Prague, Czech Republic)

11.00 – 11.15 REM sleep behaviour disorder in fronto-temporal dementia

L. Fantini, M. Zucconi, A. Marcone, P. Ortelli, S. Cappa, L. Ferini-Strambi

11.15 – 11.30 Pathophysiology of periodic limb movement disorder: Activity patterns of leg muscles and abnormal H-reflexes

R. M. Rijsman, A. Brinkley, C. J. Stam, A. W. de Weerd

11.30 – 11.45 Analysis of muscle tone in REM sleep in patients with idiopathic REM behaviour disorder (RBD) and narcoleptics with RBD

G. Mayer, E. Leonhardt, K. Stiasny-Kolster

11.45 – 12.00 Changes in dopamine receptor sensitivity during chronic treatment in restless legs syndrome

D. Garcia-Borreguero, R. Egatz, O. Larrosa, C. Serrano

12.00 – 12.15 Functional connectivity in the human motor system across the sleep-wake cycle

F. Salih, P. Grosse, A. Sharott, R. Khatami, T. Trottenberg, H. Schneider, A. Kupsch, P. Brown

12.15 – 12.30 Restless legs syndrome: a circadian disorder?

C. Roth, S. Clavadetscher, M. Gugger, C. Blum, K. Kräuchi, A. Wirz-Justice, C. Bassetti

12.30 – 12.45 Prevalence of restless legs syndrome in France and impact on sleep and quality of life according to severity - the instant study

E. Laine, A. Crochard, S. Bouee, F. Tison, A. El Hasnaoui, D. Leger

12.45 – 13.00 Severe obstructive sleep apnea mimicking REM sleep behavior disorder

A. Iranzo, J. Santamaria

Small Hall

11.00 – 13.00 Oral Presentation 6

Circadian regulation of sleep and alertness

Chairs: Jürgen Zulley (Regensburg, Germany), Naomi Rogers (Philadelphia, USA)

11.00 – 11.15 The circadian modulation of sleep spindle frequency is attenuated with age

V. Knoblauch, M. Münch, K. Blatter, W. Martens, K. Kräuchi, C. Schnitzler, C. Schröder, C. Renz, A. Wirz-Justice, C. Cajochen

11.15 – 11.30 Altered timing of sleep, melatonin and light exposure in chronic schizophrenia

K. Wulff, E. Joyce, R. G. Foster, D. -J. Dijk

11.30 – 11.45 Spectral sensitivity of the human phase advancing response

D. J. Skene, V. Revell, D. J. Dijk, J. Arendt

11.45 – 12.00 Chronic sleep restriction at an adverse circadian phase

N. L. Rogers, G. Maislin, H. P. A. Van Dongen, D. F. Dinges

12.00 – 12.15 Effects of acutely displaced sleep on testosterone

J. Axelsson, T. Åkerstedt, M. Ekstedt & U. Holmbäck

12.15 – 12.30 Countermeasures to sleepiness - the effect of blue light and olfactory stimulation

R. Popp, P. Geisler, J. Antczak, T. Crönlein, G. Hajak, J. Zulley

12.30 – 12.45 The circadian rhythm relationships between sleepiness and temperature of sleep-onset insomniacs

M. Gradisar, L. Lack, H. Wright, J. Harris, A. Brooks

12.45 – 13.00 The process of sleep onset reduces sleep propensity

L. Lack, A. Brooks, M. Gradisar, J. Harris

13.00 – 13.30 Lunch

Meeting Hall IV

13.30 – 14.30 Clinical presentation 2

Chairs: Luigi Ferini-Strambi (Milan, Italy), Peter Geisler (Regensburg, Germany)

13.30 – 13.45 Familial „nocturnal groaning“: relationship with other parasomnias

L. Ferini-Strambi, A. Oldani, M. Manconi, V. Castronovo, M. Zucconi

13.45 – 13.55 Catathrenia: a rare parasomnia with prolonged groaning during clusters of central or mixed apneas

D. P. Brunner, H. L. González

13.55 – 14.10 A case of symptomatic propriospinal myoclonic „status“ during sleep and wakefulness

M. Manconi, B. Sferrazza, S. Iannaccone, A. Massimo, M. Zucconi, L. Ferini-Strambi

14.10 – 14.30 Maltreatment of severe nocturia in patient with obstructive sleep apnea syndrome

R. V. Buzunov, V. A. Eroshina

Small Hall

13.30 – 14.30 Video session 2

Paroxysmal motor manifestations during sleep

Chairs: Marco Zucconi (Milan, Italy), Soňa Nevšimalová (Prague, Czech Republic)

Typical and atypical NFLE episodes recorded with both video-EEG and video-stereo EEG

L. Nobili

Typical and atypical examples of somnambulant behaviors (both epileptic and non-epileptic in nature)

G. Plazzi

Two cases of paroxysmal movements emerging from sleep (arousal or awakening related) but extending during wake like paroxysmal dystonic choreoathetosis

M. Zucconi, I. Štěpánová

Meeting Hall V

13.30 – 14.30 Discussion session 1

Sleep in females

Chair: Thomas Pollmächer (Ingolstadt, Germany)

Discussants:

R. Armitage, H. Driver, A. Dzaja, F. Baker

The discussion will focus on:

Does disturbed sleep in affective disorders differ between genders?

Is sleep apnea different between genders?

Do female hormones trigger the restless syndrome?

Does normal sleep vary across the menstrual cycle?

14.30 – 16.00 Poster presentation 3

**Club
Narcolepsy**

P003 Childhood narcolepsy: a quantitative study of psychosocial and cognitive outcomes

L. Dorris, C. Moffat, I. McArthur, S. M. Zuberi

P007 Hypnagogic hallucinations in childhood narcolepsy; a semi-structured interview study

I. McArthur, L. Dorris, S. M. Zuberi

P011 Affective startle reflex modulation in patients with narcolepsy-cataplexy

R. Khatami, C. L. Bassetti

P015 Sodium oxybate use in narcoleptics taking antidepressants

R. L. Morehouse

P019 Sodium oxybate produces dose-related changes in sleep architecture

W. C. Houghton

P023 Sodium oxybate for the treatment of cataplexy

R. L. Morehouse

P027 Is month of birth a risk factor also for narcolepsy without cataplexy?

M. Pretl, K. Šonka, V. Čapek, S. Nevšimalová

P031 No seasonal birth effects in Dutch narcoleptic patients

J. H. M. de Groen, P. van Mierlo

P035 Spectral analysis of all-night NREM sleep EEG in patients with narcolepsycataplexy

R. Khatami, H. -P. Landolt, J. V. Rétey, E. Werth, H. Vu, CH. Hurni, C. Roth, J. Mathis, P. Achermann, C. Bassetti

P039 Narcolepsy, social and therapeutic trends in Ireland

C. C. McCann

P043 EEG-tomographic studies with LORETA on vigilance differences between narcolepsy patients and controls and subsequent double-blind, placebo-controlled studies with modafinil

M. Saletu, P. Anderer, G. M. Saletu-Zyhlarz, M. Mandl, O. Arnold, J. Zeitlhofer, B. Saletu

P047 Hypocretin and HLA-DQB1*0602 in Korean narcoleptics

S. -Ch. Hong, J. -H. Jeong, J. -H. Han, S. -P. Lee, E. Mignot

P051 Automatic behaviour in individuals with narcolepsy: a preliminary categorization

M. Morandín, D. Bruck

P054 Sleep changes after oral glucose intake in patients with narcolepsy

P. Beitinger, M. Dalal, R. Wehrle, S. Fulda, V. Bubendorff, A. Schuld, T. C. Wetter, T. Pollmächer

P057 Prevalence and functional significance of PLMS in patients with narcolepsy

S. Rompré, S. Whittom, B. Adam, Y. Dauvilliers, J. Montplaisir

P060 The use of stimulants during pregnancy in narcoleptic patients

H. L. González-Arriaza, L. E. Krahn

P063 Diurnal variation in EEG power in narcoleptics shows an enhancement of homeostatic sleep drive

A. S. Smit, A. M. L. Coenen, H. A. Droogleever-Fortuyn, P. A. T. M. Eling

P066 Cerebrospinal fluid hypocretin-1 (orexin-A) measurement in pediatric and teenager patients with hypersomnia and/or cataplexy

H. Kondo, T. Kanbayashi, J. Ariei, Y. Ogawa, R. Aizawa, T. Takemura, F. Takemura, K. Mishima, S. Iijima, Y. Sawaishi, Y. Hishikawa, T. Shimizu

P069 Cerebrospinal fluid histamine and noradrenaline contents in narcolepsy and other sleep disorders

T. Kanbayashi, T. Kodama, H. Kondo, S. Satoh, N. Miyazaki, K. Kuroda, M. Abe, C. Tadokoro, F. Maruyama, S. Nishino, Y. Inoue, T. Shimizu

P072 Secondary hypersomnia cases due to hypocretin (orexin) deficiency

M. Abe, H. Kondo, J. Ariei, K. Obara, K. Nokura, M. Kashiwagi, S. Yoshikawa, H. Yamato, T. Yano, T. Kanbayashi

P074 The forced awakening test in clinical practice: a study in 100 patients complaining of excessive daytime sleepiness

H. Bastuji, F. Perrin, T. Petitjean, L. Garcia-Larrea

**Panorama Hall
Behaviour - Animals**

P078 Circadian locomotor behaviour of the rat after chronic treatment with a selective D3 or a D2/D3 antagonist

P. C. Baier, R. Koch, D. J. Virley, C. Trenkwalder

P082 Hormone treatment facilitates penile erection in castrated rats after sleep deprivation and cocaine

M. L. Andersen, M. Bignotto, S. Tufik

P086 Age-related effects on genital reflexes induced by paradoxical sleep deprivation and cocaine in rats

S. Tufik, M. L. Andersen, M. Bignotto, L. Assumpção Papale

P090 Daily torpor and sleep deprivation in the Djungarian hamster affect performance

S. Palchykova, C. Kopp, I. Tobler

P094 Do bats have a bad influence on human sleep in bed? - A polysomnographic case report

R. Popp, P. Geisler

P098 Conspecific interactions play a critical role in determining sleep-requirement in

Drosophila melanogaster

I. Ganguly, R. Greenspan

P102 Sleep deprivation decreases plasma magnesium and calcium levels in rats

M. A. Akanmu, S. C. Meludu, Y. Katayama, K. Honda

P106 Effects of paradoxical sleep deprivation on the performance of rats in a model of visual attention

F. R. L. Godoi, M. G. M. Oliveira, S. Tufik

P110 Sleep pattern and its interruption before and during the first week of pregnancy: comparison of long evans and Wistar rats.

H. Almira, J. Marimon, M. Pigareva, T. Rodrigo

P114 Unihemispheric sleep and memory consolidation processes

D. Bobbo, A. Andrioli, G. G. Mascetti, G. Vallortigara

P118 Role of noradrenergic locus coeruleus neurons in behavioural state control and synaptic mechanisms underlying the cessation of their discharge during paradoxical sleep

K. Sakai, S. Crochet, T. Kodama, H. Onoe

P122 Unihemispheric sleep and visual learning in domestic chicks

G. G. Mascetti, M. Rugger, G. Vallortigara, S. Menesatti

P126 Sleep studies in marmosets

K. E. Williams, T. M. Mann, N. G. Muggleton, E. A. M. Scott, P. C. Pearce

Molecular Biology, Endocrinology, Biochemistry

P130 Single nucleotide polymorphisms in PER2 and diurnal preference

J. D. Carpen, S. N. Archer, D. J. Skene, A. Williams, M. Smits, M. von Schantz

P134 Decreased slow wave sleep and increased REM sleep levels in mutant mice lacking 5-HT1A and 5-HT1B receptors

C. Alexandre, V. Fabre, D. Popa, M. Hamon, J. Adrien

P138 Sleep-related changes in gene expression in Drosophila

Ch. Cirelli, G. Tononi

P142 The localization of equilibrative nucleoside transporters in the rat brain

L. Alanko, S. Soinila, D. Stenberg, T. Porkka-Heiskanen

P146 Cerebral overproduction of NO in the mice infested by Trypanosoma brucei brucei

R. Cespuglio, A. Gharib, C. Rousset, B. Bouteille, P. Vincendeau, A. Buguet

P150 Immunology and immunopathology of human African trypanosomiasis: involvement of nitric oxide and TNF-alpha

P. Vincendeau, B. Bouteille, S. Daulouçde, P. Courtois, S. Semballa, R. Cespuglio, A. Buguet

P154 Subjective caffeine sensitivity, sleep quality and polymorphisms of the adenosinergic system

J. V. Rétey, M. Adam, R. Khatami, U. Luhmann, J. M. Gottselig, H. H. Jung, W. Berger, H. -P. Landolt

P158 CNS immunopathology in experimental African trypanosomiasis: NO and TNFalpha implications

B. Bouteille, M. Keita, P. Vincendeau, R. Cespuglio, A. Buguet

- P162 Effects of early handling and maternal separation on sleep pattern in adult female wistar rats**
P. A. Tiba, S. Tufik, D. Suchecki
- P166 Effects of maternal separation on baseline sleep pattern and cold stress-induced sleep rebound in adult male wistar rats**
P. A. Tiba, S. Tufik, D. Suchecki
- P170 Expression of GHRH related mRNAs in the brain of spontaneous dwarf rats**
P. Taishi, Z. Peterfi, R. Brown, F. Obal Jr. , J. M. Krueger
- P174 Rhythms of ghrelin and leptin with respect to sleep and feeding in rats**
J. Gardi, B. Bodosi, I. Hajdu, E. Szentirmai, F. Obal Jr. , J. M. Krueger
- P178 Ghrelin and leptin responses to sleep deprivation and to reversed feeding schedule in rats**
B. Bodosi, J. Gardi, I. Hajdu, E. Szentirmai, F. Obal Jr. , J. M. Krueger
- P182 Sleep in spontaneous dwarf rats**
F. Obál Jr. , Z. Peterfi, R. Brown, P. Taishi, J. M. Krueger
- P186 Evaluation with ³¹P spectroscopic methods of the brain ATP depletion achieved by chloramphenicol: - consequences on the rat sleep-wake states**
H. Chahboune, H. Mahdjoub, P. Desgoutte, G. Debilly, C. Rousset, A. Briguet, R. Cespuglio
- P190 Paradoxical sleep deprivation decreases the activity of aspirin-esterases in the liver of rats**
M. A. C. Benedito, J. M. C. Andrade, M. L. L. Salama
- P194 Unexpected effect of sleep deprivation on cardiovascular risk factors in rats**
V. D'Almeida, M. L. Andersen, P. J. F. Martins, F. G. Souza, S. Tufik
- P198 Metabolic alterations in the liver of sleep deprived rats**
P. J. F. Martins, V. D'Almeida, F. G. Souza, V. P. Lanzoni, L. F. Costa-Rosa, S. Tufik
- P202 Glutamate increases the expression and release of TNF alpha in primary cultures of fetal rat hypothalamic cells**
A. De, S. M. Simasko, J. M. Krueger
- P206 Ultrastructural localization of delta opioid receptor activation sites in cholinergic axons of the vRPO REM-inducing region**
M. X. Alvira, M. Garzón
- P210 The majority of basal forebrain neurons contain the synthetic enzyme for neurotransmitter glutamate**
I. Gritti, L. Mainville, F. Galloni, M. Mariotti, B. E. Jones

Physiology, Neurophysiology III

- P214 Alpha intrusion into sleep and insecure attachment: a test of a psychophysiological hypothesis**
E. P. Sloan, R. G. Maunder, J. J. Hunter, H. Moldofsky
- P218 Does prior sleep fragmentation attenuate the arousal response to inspiratory resistance in REM sleep?**
J. Zavodny, C. Roth, J. Mathis, M. Gugger
- P222 Effects of aging and gender on the characteristics of automatically detected**

sleep spindles in a large database

G. Gruber, P. Anderer, T. Miazhyńska, M. Woertz, S. Parapatics, G. Dorffner

P226 NREM sleep and memory consolidation in healthy elderly people

N. Albrecht, O. P. Hornung, F. Regen, H. Danker-Hopfe, M. Schredl, I. Heuser

P230 Sleep strengthens the effective connectivity among cortical and subcortical regions: evidence for the restorative effects of sleep using H₂ ¹⁵O PET

N. S. Arora, W. D. S. Killgore, A. R. Braun, G. Belenky, N. S. Wesensten, T. J. Balkin

P234 Event-related potentials to hearing one's own name during slow wave sleep

D. Delosh, J. Choi, J. Sedourk, L. A. Cottone, N. K. Squires

P238 Aircraft noise and sleep disturbance: dose-response relationships

K. I. Hume, C. Whitehead

P242 Three days of work followed by three days off - effects on sleep, sleepiness and health

A. Dahlgren, T. Åkerstedt

P246 Reaction to sleeplessness and the impact of trait worry: an experimental study

S. Omvik, S. Pallesen, I. H. Nordhus, B. Bjorvatn, A. Skjerve, J. Thayer

P250 Performance and event-related potentials after noise-disturbed nights

B. Griefahn, A. Marks, S. A. Schapkin

P254 Sleep parameter reference charts for 20 to 80 year old healthy subjects: the SIESTA database

H. Danker-Hopfe, M. Schäfer, P. Anderer, G. Gruber, G. Klösch, D. Kunz, J. Lorenzo, S. L. Himanen, B. Kemp, T. Penzel, J. Rösche, G. Dorffner

P258 A gendered perspective of snoring in couples

S. Venn, R. Meadows, J. Hislop, S. Arber

P261 Non-linear interaction between heart rate variability and sleep EEG

M. Dumont, F. Jurysta, J-P. Lanquart, P. van de Borne, P. Linkowski

P264 Time course of eye movements intensity in REM episodes preceding the awakening

I. Zilli, S. Scavelli, V. Uga, Ch. Zampi, P. Salzarulo

P267 Dynamics of slow wave activity (SWA) preceding spontaneous awakening in the elderly

V. Uga, I. Fagioli

P270 Slow eye movements as a predictor of performance lapses during sleep deprivation under supine and sitting/standing posture conditions

C. Cajochen, D. -J. Dijk

P273 Effects of electromagnetic fields on cognitive performance and waking EEG

S. J. Regel, J. M. Gottselig, J. Schuderer, G. Hofer-Tinguely, N. Kuster, H. P. Landolt, J. V. Rétey, P. Achermann

P276 Sleep inertia following short naps

K. A. Robertson, M. B. Spencer, B. M. Stone

P282 A pad for continuous topographic recording of body temperature

G. Bader

P286 Night to night variability of sleep EEG parameters in healthy subjects recorded during three discontinuous sessions comprising three consecutive nights: The repeated first night effect

C. Staner, F. Cornette, L. Staner, R. Luthringer

P290 A transcranial magnetic stimulation approach to assess intracortical inhibition and facilitation upon awakening from SWS and REM sleep

M. Ferrara, L. De Gennaro, G. Curcio, F. Fratello, V. Romei, F. Pauri, P. M. Rossini, M. Bertini

P294 Detecting sleep bruxism with the BiteStrip bruxism device: bilateral comparisons with masseter EMG bruxism events

A. Oksenberg, E. Arons, A. Gavish, N. Hadas, P. Lavie, T. Shochat

P298 Multicenter study on the variability of the sleep stage scoring algorithm ARTISANA compared to human experts

M. Schwaibold, E. Hoffmann, R. Binder, I. Pinnow, W. Cassel, B. Schöller, D. Riemann, H. - G. Weeß, T. Penzel, H. - F. Becker, A. Bolz

P302 A pictorial sleepiness scale based on cartoon faces

C. C. Maldonado, A. J. Bentley, D. Mitchell

P306 Microsleep from the EEG point of view

J. Faber, M. Novák, P. Svoboda, V. Tatarinov, T. Tichý, P. Bouchner

P310 Continuous EEG recording iterative sleepiness tests

D. Cugy, J. Paty

P314 Non-invasive monitoring system for a human sleep

T. Koabayshi, S. Tomita, O. Mandai, S. Nemoto

P318 BioSomnia – a new mobile screening device to detect sleep and its quality

M. Schweitzer, A. Mohammad, R. Binder, R. Steinberg, W. H. Schreiber, H. G. Weeß

P322 Automated study of sleep spindle morphology utilizing envelope and instantaneous frequency parameters

L. Hu, P. Ktonas

P326 A portable recorder for quantifying and analysing snoring in the laboratory or at home

W. L. Davies, R. E. Royston, J.C. Wheeler

P330 Defining restorative sleep in patients with and without sleep complaints

R. Hays, R. Morlock, E. Fielder, T. Hays, R. Downey, F. Wang

P334 Reliability and validity of the new sleep questionnaire SAAQ for clinical evaluation trials

R. Goertelmeyer

P338 New methods for automatic polysomnogram analysis and its application for CHF classification

K. Todros, B. Levy, D. Solomon, A. B. Geva

P342 Construct validation of the children's sleep-wake scale (CSWS)

M. K. LeBourgeois, J. R. Harsh

P346 Polysomnographic features and Epworth Sleepiness Scale in subjects complaining of sleep disorders

J. Velázquez-Moctezuma, U. Jimenéz Correa, R. Haro Valencia, Y. Arana-Lechuga, G. Terán Perez, J. L. Arellanez-Hernández

P350 Automatic sleep-wake stage scoring using artificial neural networks: optimisation and evaluation

F. Chapotot, G. Becq, E. Sforza, A. Buguet

P354 Watch or electrodes?

M. Turci, R. A. S. van den Bossche, A. W. de Weerd

P358 The validity of actigraphic assessment of sleep in community populations

C. A. Espie, N. M. Broomfield, H. -L. Kelly, K. MacMahon, J. Minto, L. Kohn, P. Wilson, B. McKinstry, A. Walker

P362 Assessing couples' sleep: the use of actigraphy with and without audio sleep diaries

R. Meadows, S. Venn, J. Hislop, S. Arber

P365 Comparison of sleep assessment by actigraphy and polysomnography during an extended 16h sleep opportunity

B. Middleton, A. J. Matthews, S. M. W. Rajaratnam, B. M. Stone, J. Arendt, D. J. Dijk

Terrace 1

Sleep in Other Medical Disorders II

P376 Sleep disorders in patients with chronic renal failure who are not in need of renal replacement therapy

N. K. Markou, M. H. Kanakaki, D. Hadjiyanakos, A. Mitioudi, D. Vlassopoulos, A. Damianos, K. Siamopoulos, A. Vasiliou, S. Constantopoulos

P380 Self-reported sleep quality, fatigue and daytime symptoms in patients undergoing peritoneal dialysis at home

P. Yngman-Uhlin, U. Edéll-Gustafsson

P384 Insomnia, depression and quality of life on chronic dialysis and after kidney transplantation

L. Szeifert, M. Z. Molnar, C. Ambrus, A. Kovacs, J. Pap, I. Mucsi, M. Novak

P388 Restless legs syndrome in renal patients: cure after kidney transplantation?

M. Z. Molnar, I. Mucsi, A. Z. Kovacs, C. Ambrus, A. Rempert, J. Pap, L. Szeifert, M. Novak

P392 Prevalence of sleep apnea syndrome is not different in patients on hemodialysis versus kidney transplanted patients

A. Z. Kovacs, M. Z. Molnar, C. Ambrus, A. Rempert, J. Pap, I. Mucsi, M. Novak

P396 Sleep disorders in haemodialysed patients with renal failure

J. Jakitowicz, M. Lichodziejewska-Niemierko, A. Dębska-Ślizień, Z. Nowicki, G. Wiśniewski

Terrace 2

Sleep in Neurological Disorders

P426 Self-assessed sleep and daytime problems in nocturics (individuals with nocturia)

P. Jennum

P430 Treatment of carpal tunnel syndrome alleviates pain and restores sleep architecture

D. C. Mdluli, D. Mitchell, F. C. Baker

P434 Disturbed sleep and insomnia in patients with chronic neuropathic pain

T. Roth, L. LaMoreaux, S. Martin, L. Hotary, T. Hsu

P438 Pupillographic study of daytime sleepiness in multiple sclerosis

B. Frauscher, R. Egg, E. Brandauer, H. Ulmer, T. Berger, W. Poewe, B. Högl

P442 Chronotypes and migraine

M. Maestri, E. Bonanni, M. Fabbrini, N. Morelli, S. Gori, L. Murri

P446 Non-24-hour sleep wake syndrome in a patient with pituitary adenoma

K. Borodkin, H. Kannety, Y. Dagan

P450 Sleep disorders in Parkinson's disease

E. Eiriksdottir, S. Sveinbjornsdóttir, T. Gislason

P454 Sleep and sleepiness in Parkinson's disease before and after dopaminergic treatment

D. Kaynak, G. Kızıltan, G. Benbir, H. Kaynak

P458 Normal/detectable CSF hypocretin-1 levels in acute Guillain-Barré syndrome

Ch. Baumann, C. Bassetti

P462 Severe sleep disturbance in a patient with "tabes dorsalis"

A. Tzagkaraki, I. Nikolopoulos, G. Tagaris, P. Iconomidis, A. Sakelaropoulos, A. Rasidakis

P466 Sleep disorders in patients with Down syndrome

J. Turbau, L. Imirizaldu, M.D. de la Calzada, N. González, S. Giménez, C. Satue, M. Corretger, R. Alcoberro, A. Queralt

P470 Human microvibration patterns during coma to death transition differ from sleep, as measured by actigraphy

M. B. Russo, A. H. Vo, R. J. Labutta, I. Black, D. P. Redmond

P474 Polysomnography (PSG) in patients with mild traumatic brain injury (MTBI) and excessive daytime somnolence (EDS)

H. Keller-Wossidlo, N. Suter

P478 Hypocretin-1 deficiency in moderate-severe traumatic brain injury

Ch. Baumann, R. Stocker, E. Mignot, H. -G. Imhof, O. Trentz, C. Bassetti

P482 Changes to sleep structure following traumatic brain injury

D. L. Steele, S. M. W. Rajaratnam, J. R. Redman, J. L. Ponsford

P486 Efficacy of pregabalin for treating pain, disordered sleep, and fatigue associated with fibromyalgia syndrome: results of a multicenter, randomized, placebocontrolled trial

L. J. Crofford, M. C. Rowbotham, P. J. Mease, I. J. Russell, R. H. Dworkin, J. P. Young Jr. , L. K. LaMoreaux, S. A. Martin, U. Sharma

P490 Myasthenia gravis: perception of dreams and subjective sleep quality

S. Happe, G. Kloesch, J. Zeithofer

P494 Psychomotor vigilance performance is associated with objective daytime sleepiness in myotonic dystrophy

L. Laberge, G. Lacroix, P. Bégin, M. Beaudry, J. Mathieu

P498 Relationship between sleep apnea-hypopnea, daytime sleepiness, and respiratory function tests in myotonic dystrophy

P. Bégin, G. Lacroix, M. Beaudry, M. Laforte, J. Mathieu, L. Laberge

P502 Importance of sleep studies in neuromuscular diseases

M. Pradella-Hallinan, G. Moreira, A. Rueda, M. Brito, G. Alves, S. Tufik

P505 Sleep disturbance in patients with partial seizures: prevalence, characteristics, and effect on quality of life

A. de Weerd, S. de Haas, J. van Gerven, D. Kasteleijn-Nolst Trenité, A. Otte, T. Hsu

P508 Sleep in mesial temporal lobe epilepsy

C. A. V. Almeida, O. G. Lins, S. G. Lins, M. M. Valença

P510 Sleep structure changes in patients with epilepsy

B. A. Tarasov, I. I. Levine, A. M. Vein

P512 RBD and GTCSs in elderly: A fortuitous comorbidity?

R. Manni, M. Terzaghi

Foyer
Sleep Respiratory Disturbances III

P524 The ineffectiveness of magnetic therapy in a patient with obstructive sleep apnea syndrome

K. Borodkin, Y. Dagan

P528 Effect of mometasone fuorate on snoring - a placebo controlled study

E. Hultcrantz, C. Andersson, I. Tholin, E. -L. Zetterlund, I. Granum, L. Harder

P532 Continuous positive airway pressure does not improve insulin sensitivity or visceral adiposity in sleep apnea

A. N. Vgontzas, E. Zoumakis, E. O. Bixler, H. -M. Lin, M. Basta, G. P. Chrousos

P536 Continuous positive airway pressure (CPAP) from the adherent and non-adherent user's perspective: A qualitative investigation

M. R. Wild, H. E. Engleman, C. A. Espie, I. Asghar, N. G. Douglas

P540 Evaluation of an automatic positive airway pressure system for titrating pressures in OSA patients

R. Peraita-Adrados, M. Cano del Pozo, G. Vázquez-Casares, M. A. García

P544 Age of sleep apnea patients is a potential predictor of normalization of excessive daytime sleepiness under nCPAP

J. Antczak, P. Geisler, R. Popp

P548 Long-term use of CPAP in elderly patients with obstructive sleep apnea

M. Harada, M. Taniguchi, M. Ohi, N. Nakai, M. Okura, K. Chin, H. Kadotani, T. Wakamura

P552 nCPAP titration in patient with central sleep apnea and chronic heart failure

K. Ilcheva, S. Slavchev

P556 Compliance with CPAP in well-succeeded elderly patients with obstructive sleep apnea syndrome (OSAS)

S. M. Togeiro, A. D. Rueda, L. R. Bittencourt, S. Tufik

P560 Manual titration with CPAP and auto-CPAP evaluation of a prospective comparative study

M. Glos, I. Möbus, B. Diecker, A. Blau, I. Fietze

P564 Observational study on the clinical course of sleep apnea patients - effect of a structured follow program

J. D. Roehrs, M. Martineau, S. Sandy, J. Sind, J. Holm

P568 Who has better compliance with CPAP therapy in severe sleep apnea-hypopnea syndrome: women or men?

I. Jurikovič

P572 Functional status in sleep apnea syndrome before and after CPAP treatment

L. Martin, M. D. de la Calzada, S. Peñarroya, S. Lara, E. Hermosilla, A. Roca, P. Lloberes, S. Gimenez, F. Turbau, M. Bartolome, M. A. Garcia

P576 An internet virtual sleep laboratory (VSL) for evaluation and treatment of obstructive sleep apnea

L. Miles, D. Crichton, J. Sun, J. Tverskaya, K. Zau, J. Yu

P580 Sleepiness and hypercapnia in patients starting home mechanical ventilation

M. Laub, S. Berg, A. Hardenstedt-Stöhl, B. Midgren

P584 Treatment of breathing disorders during sleep by home mechanical ventilation in Iceland

B. Halldorsdottir, T. S. Ingadottir, G. Gudmundsson, T. Gislason

P588 Reconciling caring and technology: the experience of families of people dependent on non-invasive ventilation

T. S. Ingadottir, H. Jonsdottir

P592 Radiofrequency surgery of the soft palate in the treatment of snoring – a metaanalysis

B. A. Stuck, J. T. Maurer, G. Hein, K. Hörmann, Th. Verse

P596 The results of surgical treatment in patients with obstructive sleep apnea and snoring

J. Banaszewski, T. Piorunek, J. Goździk, W. Szyfter, W. Mlynarczyk

P600 Radiofrequency therapy of the soft palate versus UPPP as treatment for primary snoring and mild OSAS

T. Hofman, E. Reckenzaun, D. Kuerzl, G. Schwantzer, G. Wolf

P604 Side effects after uvulopalatopharyngoplasty and radiofrequency ablation of the soft palate

E. Reckenzaun, T. Hofmann, G. Wolf, D. Kürzl

P607 Intracapsular tonsillectomy with RF-surgery. Effects on snoring one-year results

E. Ericsson, E. Hultcrantz, J. Graf

P609 Pre- and postoperative, pharyngeal pressure measurement in obstructive sleep apnea syndrome

R. de la Chaux, A. Dreher, K. Fuge, Ch. Klemens, G. Rasp

P611 Septoplasty as a treatment in OSAS patients with respiratory nasal insufficiency

M. J. Jurado Luque, O. Romero, J. Lorente, T. Sagalés, N. Moreno, G. Sampol

P613 Identifying bariatric surgery patients at risk for sleep disordered breathing

C. A. Massie, R. W. Hart

Forum Hall

16.00 – 18.00 Oral Presentation 7

Memory, activation and sleep processes

Chairs: Pierre Maquet (Liege, Belgium), Róbert Bódizs (Budapest, Hungary)

16.00 – 16.15 Complex procedural learning and sigma power in the last stage 2 sleep episode of the night

S. M. Fogel, C. T. Smith, K. A. Cote

16.15 – 16.30 Glutamate-receptor involvement in sleep-related memory consolidation

S. Gais, B. Rasch, J. Born

16.30 – 16.45 Sleep improves performance in an implicit memory task

C. Sauter, G. Kloesch, M. Schabus, K. Hoedlmoser, P. Anderer, G. Gruber, S. Parapatics, W. Klimesch, B. Saletu, J. Zeithofer

16.45 – 17.00 Human thalamic medial pulvinar nucleus is not activated during paradoxical sleep

H. Bastuji, L. Garcia-Larrea, F. Mauguière, M. Magnin

17.00 – 17.15 REM-sleep augmentation and memory consolidation in older adults

O. P. Hornung, F. Regen, H. Danker-Hopfe, M. Schredl, I. Heuser

17.15 – 17.30 Prediction of general fluid intelligence based on measures of corticothalamic resonance during sleep

R. Bódizs, T. Kis, A. Lázár, P. Rigó, L. Havrán, Z. Clemens, P. Halász

17.30 – 17.45 Increase of memory retention by paradoxical sleep augmentation induced after learning in rats

W. Wetzel

17.45 – 18.00 The relationship between sleep spindle activity, phase-locking of the EEG and declarative memory consolidation

M. Schabus, K. Hödlmoser, G. Gruber, S. Parapatics, W. Klimesch, J. Zeithofer

Meeting Hall I

16.00 – 18.00 Oral Presentation 8

Children and adolescents: sleep and sleep disorders

Chairs: Rosa Peraita Adrados (Madrid, Spain), Oliviero Bruni (Rome, Italy)

16.00 – 16.15 Sleep effects on prolactin and cortisol plasma levels in formerly iron deficient (FID) prepubertal children

P. Peirano, C. Algarín, D. Algarín, M. Garrido, M. Maliqueo, B. Lozoff

16.15 – 16.30 Pediatric sleep disordered breathing and vascular dysfunction

L. M. O'Brien, D. Gozal

16.30 – 16.45 Sleep disordered breathing in children: cardiac and motor changes during sleep

V. Castronovo, M. L. Fantini, M. Manconi, E. Veronelli, L. Nosetti, M. Zucconi, L. Nespoli, L. Ferini-Strambi

16.45 – 17.00 Hyperactivity but not inattention related to poor sleep and weak circadian rhythms in children with ADHD

M. Cohen-Zion, L. K. Leslie, J. Cling, S. Ancoli-Israel

17.00 – 17.15 Continuous NREM sleep state instability in sleepwalking and treatment of underlying cause

Ch. Guilleminault, C. Kirisoglu, A. C. da Rosa, G. Bao, L. Palombini, V. Arias, K. K. Li

17.15 – 17.30 Delayed sleep phase syndrome (DSPPS) in teenagers

A. W. de Weerd, R. A. S. van den Bossche

17.30 – 17.45 Maturation changes of sleep homeostasis across puberty

O. Jenni, P. Achermann, M. Carskadon

17.45 – 18.00 Variable response to intravenous immunoglobulin therapy in childhood narcolepsy

S. M. Zuberi, E. Mignot, L. Ling, I. McArthur

Small Hall

16.00 – 18.00 Oral Presentation 9

Basic sleep mechanisms

Chairs: Dag Stenberg (Helsinki, Finland), Mark Opp (Ann Arbor, USA)

16.00 – 16.15 Brain mechanisms regulating sexually dimorphic sleep in *Drosophila*

R. Andretic, R. J. Greenspan, P. J. Shaw

16.15 – 16.30 The effect of glutamate on sleep and on adenosine, lactate and pyruvate levels in the basal forebrain

H. -K. Wigren, M. A. A. Schepens, V. Matto, A. Kalinchuk, L. Alanko, D. Stenberg, T. Porkka-Heiskanen

16.30 – 16.45 Alterations in sleep-wake behavior and body temperature of mice after bacterial lipopolysaccharide challenge are mediated by interleukin-6

M. R. Opp, J. D. Morrow

16.45 – 17.00 *Caenorhabditis elegans*: a model to investigate the genetics of sleep and sleep homeostasis

I. Tobler, E. Wigger, R. Dürri, A. Hajnal

17.00 – 17.15 Interleukin-1 β inhibits wake-associated Fos-activation in magnocellular cholinergic neurons: implication in sleep-wake regulation

S. Kumar, R. Szymusiak, T. Bashir, D. McGinty, M. N. Alam

17.15 – 17.30 Is histaminergic neuronal activity critical for the induction of wakefulness?

K. Sakai, S. Crochet

17.30 – 17.45 Role of nitric oxide in regulation of rebound sleep

A. Kalinchuk, D. Stenberg, Y. Lu, P. A. Rosenberg, T. Porkka-Heiskanen

17.45 – 18.00 Regulation of muscular tonus by the orexinergic projection to the mesopontine tegmentum

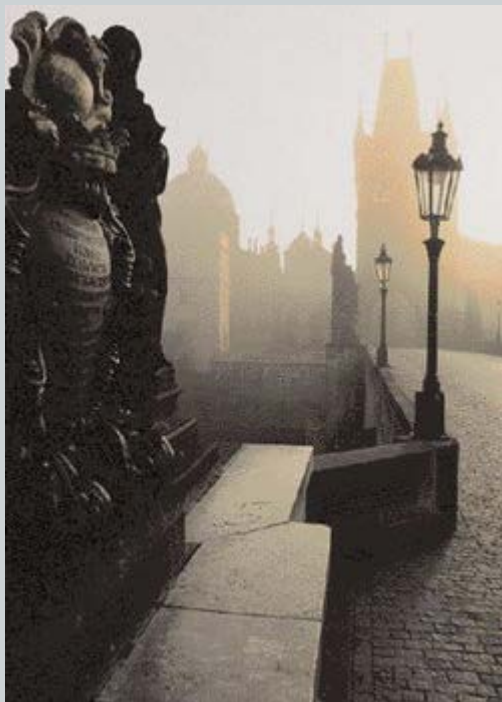
Y. Koyama, K. Takahashi, T. Kodama, K. Saitoh, H. Harada, T. Okumura, K. Takakusaki

Forum Hall

18.00 – 19.00 Presentation of „Sensation“

A large (43-partners) EU project on development of nano- and microsensors (and systems) to detect/describe sleep, sleepiness and stress. This also includes the establishment of large polysomnography data bases and attempts at new definitions of traditional concepts (including sleep staging). Because of its size and focus we feel it is important to provide information on this project and to open up avenues of interaction with the European Sleep Community

Torbjörn Åkerstedt, Georg Dörffner, Alain Muzet, Anand Kumar



17TH CONGRESS OF THE
**E U R O P E A N
S L E E P
R E S E A R C H
S O C I E T Y**

OCTOBER 5–9 , 2004
Prague, Czech Republic

SCIENTIFIC PROGRAMME

WEDNESDAY, OCTOBER 6, 2004

THURSDAY, OCTOBER 7, 2004

FRIDAY, OCTOBER 8, 2004

SATURDAY, OCTOBER 9, 2004

SATURDAY, OCTOBER 9, 2004

Forum Hall

8.30 – 10.30 Oral Presentation 10

Sleep disordered breathing: mechanisms and consequences

Chairs: Peretz Lavie (Haifa, Israel), Helen Driver (Kingston, Canada)

8.30 – 8.45 A new non-invasive measurement of the respiratory effort and arousals in sleep disordered breathing

R. Poirrier, J. Penders, P. Ansay, B. Beckers

8.45 – 9.00 Endothelial dysfunction in sleep apnea patients assessed by reactive hyperemia peripheral arterial tonometry

P. Lavie, S. Itzaki, G. Pillar, L. Lavie

9.00 – 9.15 Cytokine imbalance and increased cytotoxicity of lymphocytes in sleep apnea patients. Effects of nCPAP treatment

L. Dyugovskaya, P. Lavie, L. Lavie

9.15 – 9.30 Snoring and progression of coronary artery disease

C. Leineweber, G. Kecklund, T. Åkerstedt, K. Orth-Gomér

9.30 – 9.45 Glutamatergic control of upper airway motoneurons during sleep in the rat

J. H. Peever, Y. Y. Lai, K. -C. Hsieh, J.M. Siegel

9.45 – 10.00 Influence of the menstrual cycle on upper airway resistance and breathing during sleep

H. Driver, H. McLean, D. Kumar, N. Farr, A. Day, M. Fitzpatrick

10.00 – 10.15 Sensory nerve lesions in the oropharynx in obstructive sleep apnea

L. Hagander, R. Harlid, E. Svanborg

10.15 – 10.30 Effects of short-term CPAP withdrawal in obstructive sleep apnoea on vascular inflammatory and angiogenic markers

C. Phillips, A. Williams, M. Roth, Q. Yang, B. Yee, J. Hedner, N. Berend, R. Grunstein

Meeting Hall I

8.30 – 10.30 Oral Presentation 11

Manipulating alertness

Chairs: Hans-Peter Landolt (Zurich, Switzerland), Yvonne Harrison (Liverpool, United Kingdom)

8.30 – 8.45 Dose-response effects of split-sleep schedules during chronic sleep restriction

D. F. Dinges, N. L. Rogers, G. Maislin, H. P. A. Van Dongen

8.45 – 9.00 Bright light during the daytime improves psychomotor vigilance performance, decreases incidences of slow eye movements and reduces subjective sleepiness

J. Phipps-Nelson, J. R. Redman, D. -J. Dijk, S. M.W. Rajaratnam

9.00 – 9.15 Daytime sleepiness in monozygotic twins

A. Wichniak, S. Lietzenmaier, H. Brunner, E. Friess

9.15 – 9.30 Caffeine attenuates EEG markers of sleep homeostasis in waking and sleep

H. - P. Landolt, J. V. Rétey, K. Tönz, J. M. Gottselig, R. Khatami, I. Buckelmüller, P. Achermann

9.30 – 9.45 The effects of sleep loss on group processes in distributed and non-distributed four person decision-making teams

Y. Harrison, C. Rothwell

9.45 – 10.00 Effects of manipulating body core temperature on daytime cognition

P. J. Murphy, A. M. Goldberg, T. N. Stauble, S. S. Campbell

10.00 – 10.15 Objective and subjective sleep quality and their relevance to executive functions

A. Marks, B. Griefahn, S. A. Schapkin

10.15 – 10.30 Heredity in sleep, diurnal type and (night) shiftwork

M. Ingre, T. Åkerstedt

Small Hall

8.30 – 10.30 Oral Presentation 12

Physiology, endocrinology and metabolism

Chairs: Barbara L. Parry (La Jolla, USA), Roberto Amici (Bologna, Italy)

8.30 – 8.45 Growth hormone-releasing hormone (GHRH) impairs sleep in young normal women

A. Steiger, K. Held, S. Mathias, P. Schüssler, J. C. Weikel

8.45 – 9.00 Causal link between myoelectrical intestinal activity and cortical neuronal firing in sleep

I. N. Pigarev, V. A. Bagaev, I. I. Busygina, G. O. Feodorov, E. V. Levichkina

9.00 – 9.15 Sympathetic innervation of the cerebral circulation: a protective role during sleep?

N. Loos, D. Grant, J. Wild, S. Paul, C. Barfield, G. Zoccoli, C. Franzini, A. Walker

9.15 – 9.30 Sleep and endocrine rhythms in pregnant and postpartum depression

B. L. Parry, C. J. Meliska, N. Basavaraj, D. Sorenson, G. Zirpoli, E. L. Maurer, L. F. Martinez, A. Lopez, R. Hauger, A. Gamst, T. Wolfson, D. F. Kripke

9.30 – 9.45 Ventilatory response to arousal: homeostatic or reflex activation?

D. Kleverlaan, C. Ivens, I. Szollosi, J. Kleiman, D. White, J. Trinder

9.45 – 10.00 The effect of partial sleep deprivation and work pace on subjective stress, catecholamines and heart rate during a 12-hour work shift among professional process operators

M. Härmä, M. Sallinen, A. Holm, R. Akila, H. Mikola, J. Virkkala

10.00 – 10.15 Cold exposure depresses dark pulse efficiency in triggering REM sleep in the albino rat

F. Baracchi, R. Amici, P. Capitani, M. Cerri, D. Dentico, C. Jones, M. Luppi, D. Martelli, P. L. Parmeggiani, E. Perez, G. Zamboni

10.15 – 10.30 Quantitative analysis of sleep EEG microstructure and heart rate variability

F. De Carli, L. Nobili, M. Beelke, T. Watanabe, F. Ferrillo

10.30 – 11.00 Coffee break

11.00 – 13.00 Poster presentation 4

**Club
Parasomnias Other Sleep Disorders**

P004 Higher slow oscillation power and SWA power during N-REM sleep in REM sleep behavior disorder male patients

J. Massicotte-Marquez, J. Carrier, M. Vendette, D. Petit, A. Décary, J. Y. Montplaisir

P008 The effect of pramipexol on REM behavior disorder (RBD) in Parkinson's disease

J. Santamaria, H. Kumru, E. Tolosa, F. Valldeoriola, F. Martí

P012 Periodic leg movements during sleep in PD with and without RBD

J. -F. Gagnon, M. L. Fantini, S. Rompré, D. Petit, M. Panisset, L. Ferini-Strambi, J. Montplaisir

P016 Sleep bruxism: controlled polysomnographic and psychometric studies with clonazepam

B. Saletu, S. Parapatics, A. Saletu, P. Anderer, G. Gruber, G. Saletu-Zyhlarz

P020 Chronic facial pain and its relation to sleep bruxism

C. M. Camparis, J. T. T. S. Siqueira, L. R. A. Bittencourt, S. Tufik

P024 A psychological study on the patients with masticatory muscle disorder who develop sleep bruxism

T. Takemura, F. Takemura, T. Takahashi, M. Fukuda, T. Asanuma, Y. Masuda, H. Kondoh, T. Kanbayashi, T. Shimizu

P028 Clonidine reduces sleep bruxism activity in a double-blind randomized crossover trial: preliminary findings

N. T. Huynh, G. J. Lavigne, F. Guitard, P. H. Rompré, J. Montplaisir, J. de Champlain

P032 Clonidine suppresses REM sleep in tooth grinding patients in a double-blind randomized crossover study

F. Guitard, G. J. Lavigne, N.T. Huynh, P. H. Rompré, J. de Champlain, J. Montplaisir

P036 Effects of 25 hours of sleep deprivation on somnambulistic episodes in adult sleepwalkers: a preliminary report

M. Pilon, A. Zadra, J. Montplaisir

P040 SPECT findings in Kleine-Levin syndrome (KLS)

S. Boufidis, A. Karlovassitou, A. Balla, E. Vlahoyanni, P. Hamlatzis, S. I. Baloyannis

P044 Kleine-Levin syndrome: deficits in verbal and visual learning - a case report

M. - L. Hansen, K. Koertner, K. Kranda

P048 Autoimmune agrypnia is due to autoantibody against GABAB receptor

G. Frisullo, G. Della Marca, M. Mirabella, M. Caggiula, G. F. Mennuni, P. Tonali, A. P. Batocchi

**Panorama Hall
Sleep Deprivation**

P079 Interaction between sleep inertia and sleep deprivation. Do they affect the same cognitive processes?

P. Tassi, C. Doucet, A. Bonnefond, A. Muzet

P083 The effects of total sleep deprivation on the brain 5-HT_{1A} receptor binding measured by positron emission tomography with [18F]MPPF

Y. Lakhdarchaouche, T. Faivre, N. Costes, L. Zimmer, A. Nicolas, P. Fort, P. Lemoine, P. - H. Luppi

P087 Neural correlates of sleepiness: an FMRI study of sleep deprivation and sleep inertia

S. E. McCormack, D. Aeschbach, K. Kwong, B. R. Rosen, C. A. Czeisler

P091 Effect of sleep restriction on the ability to stay awake in women

P. Stenuit, M. Kerkhofs

P095 Hormone replacement therapy modulates the effects of sleep restriction in women

P. Stenuit, M. Kerkhofs

P099 Sleep deprivation, cognitive performance and hormone therapy in postmenopausal women

P. Alhola, M. Tallus, M. Kylmäälä, R. Portin, P. Polo-Kantola

P103 Nocturnal renin levels in normal controls - effects of gender and sleep-deprivation

P. Schüssler, M. Uhr, M. Ising, J. C. Weikel, D. A. Schmid, K. Held, S. Mathias, A. Steiger

P107 Sleep deprivation in adventure racer's: aspects biochemical and cognitive function. A preliminary study

H. K. M. Antunes, M. Túlio de Mello, R. F. Santos, V. D'Almeida, I. Zalczman, V. Lorenzi, O. F. A. Bueno, L. R. Bitencourt, R. S. Silva, S. Tufik

P111 Sleep deprivation – consequences for proteome expression

A. A. Bjorkum, K. Rosendahl, S. K. Alvsvaag, E. Stange, H. L arseth,  . M. Lien, M. A. Hashmi, T. Kanhema, F. L. Daae, B. Kluge, A. Bj rnstad

P115 Sleep deprivation induces adverse changes in attentional measures in postmenopausal women on HT

P. Polo-Kantola, M. Tallus, P. Alhola, M. Kylmä, R. Portin

P119 The effect of REM sleep deprivation on different memory tasks in humans

I. Saxvig, R. Ursin, A. Lundervold, B. Bjorvatn, J. Gronli, C. M. Portas

P123 Association of PUI and waking EEG during sleep deprivation

F. Regen, H. Dorn, H. Danker-Hopfe

P127 Relationship between performance and P3 topography after 36 hr of waking

A. Gosselin, G. Forest, J. De Koninck, K. Campbell

P131 Selective attention is impaired by sleep loss

R. Rachedi, S. Delord, J. Taillard, C. Valtat, B. Bioulac, P. Philip

P135 Chronic sleep restriction reduces optimism/sociability in a dose-dependent manner

M. Haack, J. Broussard, M. Regan, J. M. Mullington

P139 The effects of partial sleep deprivation and rest pauses on higher cognitive functioning

M. Sallinen, J. Hiltunen, A. Holm, M. Härmä, J. Koskelo, M. Letonsaari, K. Müller, J. Virkkala

P143 Recovery of mood following sleep deprivation

S. Ferguson, N. Lamond, S. Jay, J. Dorrian, T. Kong, S. Abdollahi, C. Jones, D. Dawson

P151 Recovery of neurobehavioural performance following moderate sleep loss

N. Lamond, S. Jay, J. Dorrian, S. Ferguson, S. Abdollahi, T. Kong, C. B. Jones, D. Dawson

P155 The effects of sleep deprivation on memory retrieval processes

M. Mograss, F. Guillem, C. Jean, R. Godbout

P159 Visual perceptual impairments correlate with simulated flight performance impairments in pilots during 26 hours of continuous wakefulness

M. Russo, H. Sing, A. Kendall, D. Johnson, S. Santiago, S. Escolas, D. Holland, D. Thorne, S. Hall, D. Redmond

P163 Visual perceptual impairments during 40 hours of continuous wakefulness

K. R. Warren, H. Sing, M. A. Kautz, D. P. Redmond, M. Russo

Behaviour - Human

P167 Sleep improves memory by prohibiting retroactive interference in a declarative memory task

S. Drosopoulos, C. Schultze, J. Born

P175 Changes in random number generation during sleep deprivation

J. M. Gottselig, M. Adam, J. V. Rétey, R. Khatami, I. Buckelmüller, K. Tönz, P. Achermann, H. -P. Landolt

P179 Left frontal pre-sleep 7-8Hz EEG: marker of localised waking neuropsychological performance?

C. Anderson, J. A. Horne

P183 Perfectionism and sleep disturbance in female students

M. H. Azevedo, M. J. Soares, A. Ferreira, A. Gomes, S. Bos, A. Macedo

- P187 Effects of sleep preferences and sleep patterns on daytime functioning of adolescents attending school in two shifts**
B. Radošević-Vidaček, A. Košćec
- P191 Sleep habits, lifestyle and ability to self-awaken in Japanese students who habitual self-awaken**
N. Matsuura, M. Hayashi, T. Hori
- P195 The effect of alcohol on effective emergency arousal in sleeping young adults**
M. Ball, D. Bruck
- P199 Biofeedback training in hand temperature raising promotes sleep onset in young normals**
K. Lushington, H. Greeneklee, M. Veltmeyer, S. Gilbert, C. van den Heuvel, D. Dawson
- P203 Predicting the total amount of sleep obtained in layovers during transmeridian flight patterns**
K. Kandelaars, A. Fletcher, G. Eitzen, G. D. Roach, T. Sletten, D. Darwent, D. Dawson
- P207 How fatiguing are international flight patterns? Pilot data from pilots using a palm pilot**
N. Lamond, G. D. Roach, D. Dawson
- P211 Mock jury decision making in fatigue related accident scenarios**
C. B. Jones, J. Dorrian, S. W. R. Rajaratnam, D. Dawson
- P215 Storing of skills in sleep shapes more effective neuronal representations**
S. Fischer, M. F. Nitschke, U. Melchert, C. Erdmann, J. Born
- P219 Saccade sequence learning: following the mnesic trace before and after sleep**
P. Ruby, G. Albouy, C. Phillips, P. Peigneux, P. Maquet
- P223 Sleepiness driver: neurobehavioral parameters**
H. Berrichi, M. Tiberge
- P227 Assessment of sleep quality, morning and daytime well-being in insomnia versus hypersomnia**
A. Rodenbeck, S. Cohrs, W. Jordan, E. Rüther
- P231 Auditory processing in REM sleep and in the sleep onset period**
M. Takahara, N. Kataoka, H. Nittono, T. Hori
- P235 Perceptual and analytical skills account for inter-individual differences in sleep spindles**
S. M. Fogel, C. T. Smith
- P239 Examination of the first night effect during sleep onset period**
M. Tamaki, H. Nittono, T. Hori
- P243 Daytime correlates of poor sleep in undergraduates during final exams**
A. A. Gomes, J. Tavares, M. H. Azevedo
- P247 The effects of workload on sleep, fatigue and performance in regular rotating 12-hour shifts**
S. D. Balk, N. Lamond, K. Kandelaars, A. Fletcher, G. D. Roach, D. Dawson
- P251 Objective alertness measurements in miners after time-on-task of different duration**
A. Widmann, W. Durst, B. Wilhelm

P255 Does coffee change the results of the pupillographic sleepiness test?

B. Wilhelm, G. Stuiber, H. Lüdtke

**North Hall
Physiology, Neurophysiology IV**

P283 Topographic mapping of the “cyclic alternating pattern”

R. Ferri, O. Bruni, S. Miano, M. G. Terzano

P287 Cerebral correlates of spindle and delta activity during human sleep-wake cycle

T. T. Dang-Vu, P. Maquet, M. Desseilles, S. Laureys, C. Degueldre, F. Perrin, C. Philips, P. Peigneux

P291 Properties of oscillatory events in the human sleep EEG

P. Achermann, E. Olbrich

P295 An electroencephalographic fingerprint of NREM sleep

L. De Gennaro, M. Ferrara, F. Vecchio, G. Curcio, F. Masci, M. Bertini

P299 The delay between sleep onset & maximum spindle power and the time constant of the concurrent fall in beta power

H. Merica, R. D. Fortune

P303 Rapid eye movements mapped with FMRI - disclosing PGO activity in human REM sleep?

R. Wehrle, M. Czisch, C. Kaufmann, T. C. Wetter, D. P. Auer, T. Pollmächer

P307 A parahippocampal electrocorticographic analysis of the transition from wakefulness to sleep in humans: are REM features present?

R. Bódizs, P. Halász

P311 An H2150 PET study of regional cerebral activation during stage-2 sleep

W. D. S. Killgore, N. S. Arora, A. R. Braun, G. Belenky, N. J. Wesensten, T. J. Balkin

P315 Kneipp bedsocks shorten sleep latency only when feet are warm

K. Kräuchi, V. Knoblauch, C. Cajochen, C. Renz, A. Wirz-Justice

P319 Delta and theta power spectra of night sleep EEG increase in mothers with breast-feeding

K. Nishihara, S. Horiuchi, H. Eto, S. Uchida, M. Honda

P323 Normalized power/min in homeostatic frequencies declines across NREMPs more steeply in children than in young adults and elderly

N. Darchia, I. G. Campbell, I. Feinberg

P327 Cardiac reactivity to natural sounds during sleep

A. Kumar, W. F. Hofman, J. Eberhardt

P331 Respiratory mechanics instability and heart rate variability

H. G. Helgason, W. F. Hofman

P335 The effect of repetitive arousal on BP during sleep in the middle-aged

M. J. Carrington, J. Trinder

P339 Interaction between cardiac vagal activity and delta sleep EEG power is not altered in middle-aged men

F. Jurysta, P. van de Borne, J. -P. Lanquart, P. -F. Migeotte, M. Dumont, P. Linkowski

P343 Dynamic interactions between cardiac vagal activity and sleep EEG power

bands in young men

F. Jurysta, P. van de Borne, P. - F. Migeotte, M. Dumont, J. -P. Lanquart, J. -P. Degaute, P. Linkowski

P347 Daytime sleep decreases postprandial glucose and triacylglycerol concentrations

J. Axelsson, U. Holmbäck, M. Lennernäs, L. Hambraeus, T. Åkerstedt, A. Lowden, A. Forslund, M. Stridsberg

P351 Influence of gender on inspiratory times during sleep in normal subjects

T. Aittokallio, J. Toivonen, N. Kalleinen, J. Sipilä, T. Saaresranta, O. Polo

P355 How much sleep can be obtained by healthy male volunteers if the biological night is increased to approximately 16 hr?

S. M. W. Rajaratnam, B. Middleton, B. M. Stone, J. Arendt, D. -J. Dijk

P359 Nocturnal wheezing and sleep-position

V. Gross, U. Koehler, Th. Penzel, C. Reinke, H. Becker

**Terrace 1
Dreaming**

P377 The role of dream recall in the construction of beliefs about one's dreams

D. Beaulieu-Prévost, A. Zadra

P381 Type of event determines the timing of its incorporation into dreams

G. Alain, T. A. Nielsen, D. Kuiken, P. Stenstrom, J. Paquet, R. Powell

P385 Dream recall from tonic/phasic REM sleep

D. Hodoba, K. Hrabric, P. Krmpotic, Z. Majdancic, M. Kujundzic

P389 War-related dream themes in Germany from 1956 to 2000

M. Schredl, E. Piel

P393 Dissociation and dreaming

P. Bob

P397 The possible role of sleep in memory retrieval from dream content

Z. De Saint Hilaire, R. Blois

P400 Effect of REM sleep suppression by clonidine on dream content

C. Manzini, T. Nielsen, N. T. Huynh, J. Paquet, J. Montplaisir, G. J. Lavigne

P403 Musicians dreams

M. C. Lemut, V. Uga, Ch. Zampi, I. Zilli, P. Salzarulo

P406 High prevalence of postpartum peril dreams and sleep behaviors

T. A. Nielsen, T. Paquette

P409 Dream recall, alexithymia and depression

G. Curcio, F. Enuncio, R. Loparco, F. Fratello, M. Ferrara, L. De Gennaro

P412 Brain electrical activities associated with rapid eye movements in REM sleep

K. Ogawa, T. Abe, H. Nittono, T. Hori

**Terrace 2
RLS/PLMS**

P427 Restless legs syndrome (RLS) in handicapped persons

G. Mayer, K. Stiasny-Kolster, J. Loewenstein, E. Leonhardt

P431 Periodic leg movement detection with actigraphy (Actiwatch; Cambridge Neurotechnology Ltd.): a validation study with polysomnography

V. Gschliesser, B. Frauscher, E. Brandauer, H. Ulmer, W. Poewe, B. Högl

P435 Sleep and periodic leg movements in late term pregnancy and postpartum in women with and without RLS

S. Fulda, A. Dzaja, M. Lancel, T. Pollmächer

P439 Periodic limb movement (PLM) counting in PSG - the role of the amplitude criterium

B. Högl, V. Gschliesser, B. Frauscher, E. Brandauer, W. Poewe

P443 Periodic leg movement detection with actigraphy (PAM- RL; IM systems): a further validation study with polysomnography

E. Brandauer, V. Gschliesser, B. Frauscher, H. Ulmer, W. Poewe, B. Högl

P447 Actigraphic detection of periodic leg movements in sleep - specificity and sensitivity evaluation

D. Kemlink, M. Pretl, J. Kelemen, K. Sonka, S. Nevsimalova

P451 Restoration of cardiovascular system during sleep in coronary artery disease patients with periodic limb movement syndrome

A. Alonderis, I. Duoneliene, G. Valyte, G. Varoneckas

P455 High prevalence and clinical significance of restless legs syndrome in adults

G. Hajak, W. Barta, U. Frick, F. Tracik, R. Popp

P459 Classification of patients with a complaint of daytime sleepiness but not narcolepsy

B. W. Walther, H. Schulz

P463 Influence of menstrual cycle on restless legs syndrome and sleep

A. Dzaja, S. Fulda, M. Lancel, T. Pollmächer

P467 Add-on delta-9-tetrahydrocannabinol (THC) is ineffective in drug-resistant restless legs syndrome (RLS)

J. Mathis, Th. Loher, C. Roth, M. Gugger, R. Brenneisen

P471 Restless legs symptoms, daytime sleepiness and mortality: a 12-year follow-up study of a middle-aged population

L. Mallon, J. -E. Broman, J. Hetta

P475 Prevalence estimates of restless legs syndrome in a general population

J. -E. Broman, L. Mallon, J. Hetta

P479 Cognitive function in restless legs syndrome

H. B. Tr yggvadottir, M. K. Jonsdottir, K. Kristjansson, D. Rye, T. Sigmundsson

P483 Treatment of the restless legs syndrome with lisuride – results from a pilot study with patch application

H. Benes

P487 Prevalence of restless legs syndrome in primary care settings in Gdansk, Poland

A. Nitka, M. Siemiński, J. Landowski, W. M. Nyka

P491 Coincidence of alcoholic peripheral neuropathy and restless legs syndrome in non-drinking alcoholics

A. Nitka, M. Siemiński, J. Landowski, W. M. Nyka

P495 Further evidence for genetic heterogeneity in restless legs syndrome

J. Winkelmann, P. Lichtner, T. M. Strom, C. Trenkwalder, T. Meitinger, B. Müller-Myhsok

P499 The four diagnostic features of the restless legs syndrome can be satisfied by mimic conditions

W. A. Hening, R. P. Allen, T. Washburn, S. Lesage, Ch. J. Earley

P503 CGI-RLS: an investigator-based rating scale to assess global change of symptoms in patients with restless legs syndrome

M. Hornyak, H. Benes, S. Happe, C. Trenkwalder, R. Kohonen, K. Stiasny-Kolster, W. H. Oertel

P506 A case-control study using blinded diagnoses confirms the elevated frequency of the restless legs syndrome in relatives of RLS patients

W. A. Hening, R. P. Allen, T. Washburn, S. Lesage, Ch. J. Earley

Foyer
Sleep Respiratory Disturbances IV

P525 Sleep-disorder breathing following acute lacunar stroke: a pilot study

H. Abboud, E. Jalladeau, P. Lavallee, I. Klein, P. Amarenco, M. -F. Vecchierini

P529 Cardiac arrhythmias in obstructive sleep apnea syndrome

I. Nikolopoulos, A. Tzagkaraki, P. Markopoulos, B. Antonakis, A. Zetos, A. Tsagaraki, P. Bakakos, A. Rasidakis

P533 Identification and treatment of mild upper airway obstruction in patient with severe congestive heart failure

L. Miles , D. Crichton

P537 Impact of obstructive sleep apnea on right ventricular global function

N. Aydemir, D. Dursunoglu, Ö. Kuru, Ö. Delen, F. Fişekçi, M. Kiliç

P541 Impact of obstructive sleep apnea on left ventricular mass and global function

N. Aydemir, D. Dursunoglu, Ö. Delen, Ö. Kuru, H. Evrengül, S. Başer, S. Özkurt, A. Kaftan, F. Fişekçi, M. Kiliç

P545 Patent foramen ovale is associated with oxygen desaturation during obstructive sleep apnea

M. Johansson, P. Eriksson, J. Hedner, Y. Peker, U. Lindblad, L. Ríðstam

P549 Obstructive sleep apnea and left ventricular function

S. A. Locnen, M. H. F Sta. Maria, R. G. Divinagracia, H. B. Calleja

P553 Sleep apnea before and after cardiac pacing for sick sinus

G. Gottskálksson, M. Ó. Sigurgunnarsdóttir, M. K. Pétursson, D. O. Arnarsson, J. Högnason, E. Ö. Einarsson, T. Gíslason

P557 Cardiac resynchronization therapy improves quality of sleep and life in patients with chronic heart failure and SRBD

C. Norra, E. C. Skobel, A. - M. Sinha, C. Breuer, C. Stellbrink

P561 Is a bilevel PPV in patients with heart failure and cheyne stokes respiration an effective treatment?

A. Blau, M. Glos, B. Diecker, K. Diefenbach, I. Fietze

P565 Hypertension prevalence among patients with OSAS at the sleep diagnostics

center in Budapest

P. Köves, Z. Szakács

P569 Sleep-disordered breathing as a modifier of the association of hypertension and cardiovascular disease

T. Young, L. Finn

P573 Acute ischemic stroke and sleep apnea: evolution of clinical findings, diffusion-weighted MRI, and blood pressure in the first 3 days after stroke onset

M. Siccoli, C. Selic, D. Hermann, E. Werth, P. Summers, T. Järnman, S. Kollias, C. Bassetti

P577 Evolution of blood pressure and clinical findings in the first 3 days after acute ischemic stroke in patients with and without moderate-severe sleep apnea

C. Selic, M. Siccoli, D. Hermann, E. Werth, C. Bassetti

P581 Plasma levels of tumor necrosis factor (TNF) alpha, soluble TNF receptor-1 and -2 are elevated in acute ischemic stroke patients with sleep apnea

C. Selic, M. Siccoli, E. Werth, T. Pollmächer, C. Bassetti, D. Hermann

P585 Changes in cerebral perfusion studied by spect in patients with severe obstructive sleep apnea/hypopnea syndrome

F. J. Puertas, A. Tembl, J. M. Cordero, H. Azzi, M. F. Romero, M. A. Merino

P589 Anterior mandibular positioning improves oxygenation and respiratory disturbances in sleep apnea patients

S. Itzaki, H. Dorchin, G. Clark, G. Pillar, L. Lavie, P. Lavie

P593 Hyoid distance - mandibular plane, its repercussions on OSA's MAD's treatment

R. Gonzalez Giacinti, J. A. J. Gomez, M. R. Carpizo

P597 A prospective randomized study comparing two different degrees of mandibular advancement with a dental appliance in treatment of severe obstructive sleep apnea

M. - L. Walker-Engström, I. Ringqvist, O. Vestling, B. Wilhelmsson, L. Tegelberg

P601 Two different degrees of mandibular advancement with a dental appliance in treatment of patients with mild to moderate obstructive sleep apnea

L. Tegelberg, M. -L. Walker-Engström, O. Vestling, B. Wilhelmsson

13.00 – 13.30 Lunch

Meeting Hall IV

13.30 – 14.30 Clinical case presentation 3

Chairs: Charles A. Czeisler (Boston, USA), Petr Smolík (Hradec Králové, Czech Republic)

13.30 – 13.50 Non-24-hour sleep-wake disorder in a totally blind individual with intact circadian photoreception

J. T. Hull, S. W. Lockley, D. -J. Dijk, C. A. Czeisler

13.50 – 14.10 Melatonin treatment of circadian behavioral symptoms in Alzheimer's disease

R. Mahlberg, K. P. Kuehl, R. Hellweg, D. Kunz

14.10 – 14.30 Clinical characteristics and SPECT finding in the Kleine-Levin syndrome

Y. -S. Huang, P. -F. Kao, C. Guilleminault

Small Hall

13.30 – 14.30 Video session 3

What is wrong with my sleep, from movement to breathing

Chairs: Christian Guilleminault (Stanford, USA), Roger Broughton (Ottawa, Canada)

Status cataplecticus

R. Broughton

Propriospinal myoclonus of the pre-dormitum Morvan chorea

Post midbrain surgery RBD

Hyperreflexia during sleep

Paroxysmal arousal and excessive hypnic jerks

G. Plazzi

To breathe or to sleep in a child

Fiberoptic scope during sleep apnea

A child with snoring and sleep disordered breathing

Apnea before and after tracheostomy

Examination of a UARS patients

C. Guilleminault

OSA in a child

E. Svanborg

Meeting Hall V

13.30 – 14.30 Discussion session 2

Sleep spindles: How many? And why?

Chair: Derk-Jan Dijk (Guildford, United Kingdom)

Discussants:

Derk-Jan Dijk, Róbert Bódizs, Christian Cajochen, Steffen Gais

The discussion will focus on whether we have appropriate tools and credible evidence for:

Quantification of sleep spindles

Circadian, sleep-dependent and age-related changes in sleep spindles

A different physiological basis for slow and fast sleep spindles

A role for sleep spindles in memory processing

Forum Hall

14.30 – 16.30 Symposium 10

Psychological approaches to memory reprocessing during sleep

Chairs: Gianluca Ficca (Naples, Italy), Philippe Peigneux (Liège, Belgium)

Sleep, memory and dreams: What your brain is doing while you sleep

R. Stickgold

Determinants of memory reprocessing during human sleep. Contributions of functional neuroimaging

P. Peigneux

Emotional modulation of sleep-related memory formation in humans

U. Wagner

The role of the sleep cycle for memory processes during sleep: a look beyond the NREM-REM dichotomy

G. Ficca

Meeting Hall 1

14.30 – 16.30 Symposium 11

Restless Legs Syndrome: the contribution of genetic and epidemiological studies

Chairs: Diego Garcia-Borreguero (Madrid, Spain), Markku Partinen (Helsinki, Finland)

Defining the phenotype of the Restless Legs Syndrome

W. A. Hening

Epidemiology of RLS: Are there ethnic differences?

M. Partinen

Clinical genetics of Restless Legs Syndrome

M. Zucconi, A. Oldani, P. Aridon, G. Casari, L. Ferini-Strambi

Molecular genetics of RLS

J. Winkelmann

Small Hall

14.30 – 16.30 Symposium 12

On becoming a chronic insomniac: psychological mechanisms contributing to the formation and maintenance of insomnia

Chairs: Cristiano Violani (Rome, Italy), Dieter Riemann (Freiburg, Germany)

Vicious cycles of sleeplessness

J. E. Broman, L. G. Lundh

Attentional bias for sleep-related stimuli and the transition from acute to persistent insomnia: result from some recent experiments

C. A. Espie, L. M. Taylor, N. M. Broomfield, L. M. MacPhee, K. MacMahon, L. Fleming, B. T. Jones, S. Biello

Psychological risk factors for insomnia: preliminary findings from a longitudinal study

C. M. Morin, M. LeBlanc, C. Mérette, J. Savard, J. P. Grégoire, L. Baillargeon

Individual traits of chronic and recent insomniacs

C. Violani, A. Devoto, F. Lucidi, C. Lombardo, P. M. Russo

Forum Hall

Foyer of the Forum Hall

16.30 – 17.30 Closing Ceremony

16.30 – 17.30 Farewell Cocktail