

22<sup>nd</sup> Congress of the

# European Sleep Research Society

Tallinn, Estonia | 16 – 20 September 2014



## Final Programme

Tuesday, 16 September 2014

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**09.00 – 12.30**      **Teaching Course** Lecture Hall B

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**Update on sleep medicine (Part 1)**

*Chairs:*      *Z. Dogas (Split, HR)*  
                  *T. Penzel (Berlin, DE)*

- 09.00    1      **Diagnostic methods – portable**  
                  *Z. Dogas (Split, HR)*
- 09.30    2      **Diagnostic methods – polysomnography**  
                  *T. Penzel (Berlin, DE)*
- 10.00            **Coffee Break**
- 10.30    3      **Circadian rhythm sleep disorders and treatment**  
                  *D. Skene (Guildford, GB)*
- 11.30    4      **Management of sleep medicine**  
                  *T. Penzel (Berlin, DE)*  
                  *Z. Dogas (Split, HR)*
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**09.00 – 12.30**      **Teaching Course** Lecture Hall D

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**Pharmacology of the sleep-wake cycle and drug development**

*Chairs:*      *R. Winsky-Sommerer (Guildford, GB)*  
                  *P.-H. Luppi (Lyon, FR)*

- 09.00    5      **Neurochemistry and functional neuroanatomy of sleep**  
                  *P.-H. Luppi (Lyon, FR)*
- 10.00            **Coffee Break**
- 10.30    6      **Pharmacology of sleep and wake promotion**  
                  *R. Winsky-Sommerer (Guildford, GB)*
- 11.30    7      **Industry perspectives and drug development**  
                  *K. Wafford (Windlesham, GB)*
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**09.00 – 12.30 Teaching Course** Lecture Hall E

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**CBT-I across the life span**

Chairs: C. Espie (Oxford, GB)  
K. Spiegelhalder (Freiburg, DE)

- 09.00 **8 CBT-I in children and adolescents**  
A. Schlarb (Bielefeld, DE)
- 10.00 **Coffee Break**
- 10.30 **9 CBT-I in adult**  
C. Espie (Oxford, GB)
- 11.30 **10 CBT-I in later life and chronic disease**  
K. Morgan (Loughborough, GB)
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**08.45 – 15.30 ESST Meeting** Lecture Hall F

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- 08.45 **11a Welcome**  
M. Elbaz (Paris, FR)
- 09.00 **11b Sleep and wake regulation; metabolism & nutrition**  
H. Steinebach (NL)  
I. Warnaar (NL)
- 09.30 **11c Sound and vision: their importance in P(S)G**  
M. Verspaandonk (NL)
- 10.00 **Coffee break**
- 10.30 **11d AASM rules...they've been updated...again!**  
E. Hill (Edinburgh, GB)
- 11.00 **11e Paediatric Sleep Study Scoring**  
P. Murphy (SE)
- 11.30 **11f Cheyne Stokes breathing and ASV**  
C. Navin (GB)
- 12.00 **11g Sleep medicine in Estonia by nurse practitioner**  
T. Siilak (EE)  
R. Vaiksaar (EE)
- 12.30 **Lunch Break**
- 13.30 **11h Circadian rhythm sleep disorders**  
V. van Kasteel (NL)
- 14.00 **11i Actigraphy: clinical usage**  
S. Briscoe (GB)
- 14.30 **11j How to measure snoring? A comparison of the three accepted AASM**  
E. Sif Arnardottir (Reykjavik, IS)
- 15.00 **11k The ESRS Somnologist Technologist Exam**  
S. de Lacy (Orihuela Costa, ES)
- 15.30 **Close of meeting**
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**13.30 – 17.00**      **Teaching Course**      Lecture Hall B

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**Update on sleep medicine (Part 2)**

Chairs:      *Z. Dogas (Split, HR)*  
                  *T. Penzel (Berlin, DE)*

- 13.30    12      **Sleep disordered breathing**  
                  *D. Pevernagie (Gent, BE)*
- 14.30    13      **Insomnia**  
                  *C. Espie (Oxford, GB)*
- 15.30                    **Coffee Break**
- 16.00    14      **Restless legs syndrome and periodic legs movement syndrome**  
                  *D. Garcia-Borreguero (Madrid, ES)*
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**13.30 – 15.30**      **Symposium Local Committee I**      Lecture Hall C

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**Sleep and neuropsychiatric disorders**

Chairs:      *T. Hion (Tartu, EE)*  
                  *P. Jennum (Glostrup, DK)*

- 13.30    15      **History of the Estonian Sleep Medicine Association**  
                  *M. Veldi (Tartu, EE)*
- 13.50    16      **Social burden and management of sleep disorders**  
                  *P. Jennum (Copenhagen, DK)*
- 14.10    17      **Psychiatric risk genotypes and sleep in a prospective population-representative study**  
                  *J. Harro (Tartu, EE)*
- 14.30    18      **Screening sleep disorders by mattress movement sensor**  
                  *S.-L. Himanen (Tampere, FI)*
- 14.50    19      **Effects of insomnia CBT-oriented group therapy in adults in Estonia**  
                  *T. Hion (Tartu, EE)*
- 15.10    20      **Treatment of DSPD with light and melatonin**  
                  *B. Bjorvatn (Bergen, NO)*
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**13.30 – 17.00**      **Teaching Course**      Lecture Hall D

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**Circadian and homeostatic regulation of sleep**

Chairs:      *D.-J. Dijk (Guildford, GB)*  
                  *T. Porkka-Heiskanen (Helsinki, FI)*

- 13.30    21      **Circadian and homeostatic regulation of sleep**  
                  *D.-J. Dijk (Guildford, GB)*
- 14.30    22      **The biochemistry of sleep homeostasis**  
                  *T. Porkka-Heiskanen (Helsinki, FI)*
- 15.30                    **Coffee Break**
- 16.00    23      **Genes involved in circadian rhythmicity and sleep homeostasis**  
                  *T. Paunio (Helsinki, FI)*
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**13.30 – 17.00**      **Teaching Course**      Lecture Hall E

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**Sleep disordered breathing: spectrum of current therapies**

*Chair: L. Nobili (Milan, IT)*

- 13.30    **24**      **Ambulatory protocols of CPAP treatment in obstructive sleep apnea syndrome**  
*L. Grote (Gothenburg, SE)*
- 14.00    **25**      **Mandibular advancing devices in adult OSA patients: indications and results of treatment**  
*J. Verbraecken (Antwerp, BE)*
- 14.30    **26**      **Treatment of sleep disordered breathing in chronic heart failure**  
*L. Grote (Gothenburg, SE)*
- 15.00    **27**      **Therapeutic strategies for the obesity hypoventilation syndrome**  
*J. Verbraecken (Antwerp, BE)*
- 15.30                      **Coffee Break**
- 16.00    **28**      **Surgical treatment of obstructive sleep apnea syndrome: new approaches and techniques**  
*C. Vicini (Parma, IT)*
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**16.00 – 18.00**      **Symposium Local Committee II**      Lecture Hall C

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**Sleep disordered breathing: dilemmas and cardiac function**

*Chairs: E. Sõõru (Tallinn, EE)  
E. Lindberg (Uppsala, SE)*

- 16.00    **29**      **Snoring and adverse health effects: a general population study in Iceland**  
*E.S. Arnardottir, B. Arnason, K.A. Olafsdottir, S. Hoskuldsson, B. Benediktsdottir, T. Gislason (Reykjavik, IS)*
- 16.20    **30**      **Management of obstructive sleep apnea among drivers in Estonia**  
*E. Sõõru (Tallinn, EE)*
- 16.40    **31**      **Sleep time breathing disorders in Estonian paediatric patients**  
*H. Vaher, P. Kasenõmm, V. Vasar, M. Veldi (Tartu, EE)*
- 17.00    **32**      **Sleep disordered breathing in women**  
*E. Lindberg (Uppsala, SE)*
- 17.20    **33**      **Myocardial electric instability in patients with various degree of sleep apnea**  
*M. Pindmaa (Tallinn, EE)*
- 17.40    **34**      **Sleep apnea as the main reason of sudden cardiac death at night**  
*J. Kaik (Tallinn, EE)*
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Tuesday, 16 September 2014

**17.00 – 18.30**      **ESRS Women's Forum** Lecture Hall B

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**ESRS Forum for European women in sleep research**

*Chair: R. Winsky-Sommerer (Guildford, GB)*

17.00    **35a**    **The representation of women in research**  
*R. Winsky-Sommerer (Guildford, GB)*

17.20                    **Discussion**

17.45    **35b**    **Advice on personal development and scientific career in the academic and clinical contexts**  
*T. Paunio (Helsinki, FI)*

18.05                    **Discussion**

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**18.30 – 20.00**      **Opening ceremony** Exhibition

08.30 – 10.30      **Opening Ceremony**      Lecture Hall A  
**European Sleep Science Award**  
**Young Scientist Symposium**

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*Chairs:*      *P. Peigneux (Brussels, BE)*  
                  *E. Sõõru (Tallinn, EE)*

08.30      **36**      **Welcome address by ESRS President**  
*P. Peigneux (Brussels, BE)*

08.40      **37**      **Welcome address by Minister of Health and Labour of Estonia**  
*U. Kruuse (EE)*

08.45      **Entertainment**

08.50      **38**      **Welcome address by ESMA President**  
*E. Sõõru (Tallinn, EE)*

08.55      **Entertainment**

**European Sleep Science Award**

09.00      **39**      **Introduction**  
*P. Peigneux (Brussels, BE)*

09.05      **40**      **Laudatio**  
*D.-J. Dijk (Guildford, GB)*

09.15      **41**      **Presentation by the Award winner**

**Young Scientist Symposium**

09.30      **42**      **Region-specific response to sleep restriction in children: associations with performance and myelination**  
*S. Kurth, S.C.L. Deoni, P. Achermann, D.C. Dean, M.R. Doucette, J. O'Muircheartaigh, M.K. LeBourgeois (Boulder, Providence, US; Zurich, CH)*

09.45      **43**      **Upper airway collapsibility is sleep state-dependent**  
*D.J. Eckert, A.S. Jordan, D.P. White, A. Wellman (Melbourne, Randwick, AU; Boston, US)*

10.00      **44**      **Investigating the role of microRNAs in sleep homeostasis**  
*G.M. Mang, S. Jimenez, F. Consales-Barras, J. Weber, P. Franken (Lausanne, CH)*

10.15      **45**      **The impact of sleep on three-ball cascade juggling**  
*K. Hoedlmoser, K. Bothe, S. Tibi, D. Koerner, G. Gruber, M. Schabus (Salzburg, Vienna, AT)*

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Wednesday, 17 September 2014

11.00 – 12.00 Oral Session

Lecture Hall A

**Learning, memory and cognition**

*Chairs:* S. Schwartz (Geneva, CH)  
L. Talamini (Amsterdam, NL)

- 11.00 46 **Slow oscillations during sleep orchestrate interregional communication in cortical networks**  
*L. Talamini, J. van Driel, M. de Boer, R. Cox (Amsterdam, NL)*
- 11.12 47 **Afternoon nap and exposure to bright light to prevent post-prandial decreases in task switching**  
*R. Leproult, H. Slama, G. Deliens, R. Schmitz, P. Peigneux (Brussels, BE)*
- 11.24 48 **No effect of sleep on the generalization of fear learning**  
*P. Davidson, I. Carlsson, P. Jönsson (Kristianstad, Lund, SE)*
- 11.36 49 **Factors influencing mechanisms supporting overnight declarative memory consolidation**  
*M. Wislowska, D.P.J. Heib, H. Griessenberger, K. Hoedlmoser, M. Schabus (Salzburg, AT)*
- 11.48 50 **Mathematical modeling and ADORA2A genotype elucidate individual differences in the effects of sleep loss on risky decision-making**  
*A.M. Tucker, S.C. Holst, H.-P. Landolt (Amsterdam, NL; Zürich, CH)*

11.00 – 12.00 Oral Session

Lecture Hall B

**Interactions between sleep and circadian rhythm**

*Chairs:* D.-J. Dijk (Guildford, GB)  
C. Cajochen (Basel, CH)

- 11.00 51 **Chronotype-specific alterations in semantic priming performance during functional MRI (fMRI)**  
*J. Rosenberg, M. Reske, N.J. Shah (Jülich, DE)*
- 11.12 52 **Circadian regulation of EEG slow waves and phase coherence in human sleep**  
*A.S. Lazar, Z.I. Lazar, D.-J. Dijk (Guildford, GB; Cluj-Napoca, RO)*
- 11.24 53 **Human cortical excitability depends on time awake and circadian phase**  
*J.Q.M. Ly, G. Gaggioni, S.L. Chellappa, S. Papachilleos, A. Brzozowski, C. Borsu, S.N. Archer, M. Rosanova, S. Sarrasso, D.-J. Dijk, C. Phillips, P. Maquet, M. Massimini, G. Vandewalle (Liège, BE; Guildford, GB; Milan, IT)*
- 11.36 54 **Impact of sleep pressure, circadian phase and the ADA polymorphism on cerebral correlates underlying working memory performance**  
*C.F. Reichert, M. Maire, V. Gabel, A.U. Viola, K. Scheffler, M. Klarhöfer, W. Strobel, C. Cajochen, C. Schmidt (Basel, CH)*
- 11.48 55 **Individual differences in the non-image forming effects of light on human sleep**  
*S.L. Chellappa, A. Viola, C. Schmidt, V. Bachmann, V. Gabel, M. Maire, C.F. Reichert, A. Valomon, H.-P. Landolt, C. Cajochen (Basel, Zurich, CH)*



**Insomnia – from structure to dysfunction**

*Chairs: R. Winsky-Sommerer (Guildford, GB)  
D. Riemann (Freiburg, DE)*

- 11.00 56 **Reduced anterior internal capsule white matter integrity in primary insomnia**  
*K. Spiegelhalder, W. Regen, C. Baglioni, C. Nissen, B. Feige, D. Riemann (Freiburg, DE)*
- 11.12 57 **Differential brain structural correlates of insomnia severity in affective disorders**  
*D. Stoffers, M.J. van Tol, B.W. Penninx, D.J. Veltman, N.J. van der Wee, E.J. van Someren (Amsterdam, Groningen, Leiden, NL)*
- 11.24 58 **Cortical thinning in patients with persistent insomnia is associated with reduced structural connectivity in the default mode network**  
*S. Suh, H. Kim, T.T. Dang-Vu, C. Shin (Ansan, Seoul, KR; San Francisco, US; Montreal, CA)*
- 11.36 59 **Sleep restriction therapy for insomnia: an exploratory assessment of sleep and physiological markers of arousal in response to treatment**  
*C.B. Miller, C.J. Gordon, R.R. Grunstein, S.D. Kyle, C.A. Espie, A.E. Mullins, D.J. Bartlett (Glebe, AU; Manchester, Oxford, GB)*
- 11.48 60 **Correlates of sleep misperception**  
*C.H. Bastien, J. Lebel, A. Gaucher (Québec, CA)*

**From mice to man and one bird – physiology of sleep**

*Chairs: R. Amici (Bologna, IT)  
I. Tobler (Zurich, CH)*

- 11.00 61 **Prior light history impacts on cognitive brain function**  
*S.L. Chellappa, J.Q.M. Ly, C. Meyer, E. Balteau, C. Delguedre, A. Luxen, C. Phillips, H.M. Cooper, G. Vandewalle (Liège, BE; Bron, FR)*
- 11.12 62 **Dynamics of fractal indices extracted from human EEG suggest how NREM-related synchronous resets compete with self-organization and protect sleep unconsciousness via fragmentation of functional connectivity**  
*P. Allegrini, P. Paradisi, M. Laurino, A. Piarulli, D. Menicucci, A. Gemignani (Pisa, IT)*
- 11.24 63 **Cardiorespiratory control during sleep in histamine-deficient mice**  
*A. Silvani, S. Bastianini, C. Berteotti, G. Cohen, J.-S. Lin, V. Lo Martire, H. Ohtsu, G. Zoccoli (Bologna, IT; Stockholm, SE; Lyon, FR; Sendai, JP)*
- 11.36 64 **Sleep and vigilance linked to melanism in wild barn owls (*Tyto alba*)**  
*M.F. Scriba, N.C. Rattenborg, A.N. Dreiss, A.L. Vyssotski, A. Roulin (Lausanne, Zurich, CH; Seewiesen, DE)*
- 11.48 65 **Heartbeat evoked EEG responses from wake to sleep**  
*J. Lechinger, D.P.J. Heib, W. Gruber, M. Schabus, W. Klimesch (Salzburg, AT)*

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**11.00 – 12.00 Case Discussion** Lecture Hall E

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**Treat or not to treat non sleepy OSA patients**

Chair: *J. Puertas (Valencia, ES)*

- 66 Discussants**  
*J.-L. Pepin (Grenoble, FR)*  
*D. Pevernagie (Gent, BE)*
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**12.00 – 13.30 Lunch and Poster Viewing** Exhibition

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**12.15 – 13.15 Satellite Industry Symposium** Lecture Hall D

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**Philips Respironics**

**Managing co-morbidities in the sleep disordered breathing patient: case discussions**

Chair: *L. Grote (Gothenburg, SE)*

- 67 Sleep disordered breathing in the patient with metabolic disease**  
*L. Grote (Gothenburg, SE)*
- 68 Sleep disordered breathing in the patient with obesity hypoventilation syndrome**  
*W. Randerath (Solingen, DE)*
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**12.15 – 13.15 ESRS and the European Union:** Lecture Hall E

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**Perspectives for sleep research and sleep medicine**

Chairs: *P. Peigneux (Brussels, BE)*  
*R. Amici (Bologna, IT)*

**Introduction**

- 12.15 **68a Thinking European: an added value for sleep research and sleep medicine**  
*P. Peigneux (Brussels, BE)*
- The (recent) past**
- 12.20 **68b The interaction with the EU Commission in 2012-2013**  
*R. Amici (Bologna, IT)*
- 12.25 **68c The “Wake-up bus” project**  
*M. Gonçalves (Porto, PT)*
- 12.30 **68d The new standards and guidelines for drivers with obstructive sleep apnoea syndrome**  
*W. McNicholas (Dublin, IE)*
- 12.35 **68e Horizon 2020 – Proposed topic for upcoming call 2016-2017: sleep mechanisms, sleep functions and sleep disorders**  
*P. Philip (Bordeaux, FR)*
- 12.40 **The future: open discussion**
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Wednesday, 17 September 2014

**13.30 – 15.30**      **Joint Symposium** Lecture Hall A

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**Joint Symposium ESR-ESRS**

**Cardiometabolic co-morbidities of OSAS**

*Chairs: M. Bonsignore (Palermo, IT)  
L. Grote (Gothenburg, SE)*

- 69**      **Sleep apnoea and obesity**  
*M. Bonsignore (Palermo, IT)*
  - 70**      **Sleep apnoea and cardiac disease**  
*W. McNicholas (Dublin, IE)*
  - 71**      **Sleep apnoea and hypertension**  
*G. Parati (Milan, IT)*
  - 72**      **Sleep apnoea and cerebrovascular disease**  
*J.-L. Pepin (Grenoble, FR)*
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**13.30 – 14.30**      **Round Table** Lecture Hall B

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**Therapeutic management of RLS/WED:**

**Side effects, drug interactions, special situations**

*Chair: R. Silvestri (Messina, IT)*

- 73a**      **Pro and contra of dopaminergic therapy**  
*L. Ferini-Strambi (Milan, IT)*
  - 73b**      **Pregabalin in idiopathic versus secondary RLS**  
*D. Garcia-Borreguero (Madrid, ES)*
  - 73c**      **Paediatric RLS: special requirement and interaction with co-morbid neurodevelopmental disorders**  
*R. Silvestri (Messina, IT)*
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**13.30 – 14.30**      **Round Table** Lecture Hall C

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**Nightmares**

*Chair: M. Schredl (Mannheim, DE)*

- 74a**      **Risk factors for frequent nightmares: The FINRISK survey**  
*K. Valli (Turku, FI)*
- 74b**      **Imagery rehearsal therapy in psychiatric patients and exposure versus IRT**  
*J. Lancee (Amsterdam, NL)*
- 74c**      **Help seeking behaviour in frequent nightmare sufferers**  
*M. Schredl (Mannheim, DE)*

Wednesday, 17 September 2014

**14.30 – 15.30 Round Table** Lecture Hall B

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**Delayed sleep phase disorder in adolescents**

*Chair: P.C. Zee (Chicago, US)*

**75**

**Discussants**

*L. Lack (Adelaide, AU)*

*D.-J. Dijk (Guildford, GB)*

*B. Bjorvatn (Bergen, NO)*

**14.30 – 15.30 Round Table** Lecture Hall C

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**Narcolepsy related to infections and vaccinations**

*Chair: M. Partinen (Helsinki, FI)*

14.30 **76**

**Infections and vaccinations triggering narcolepsy: current knowledge**

*M. Partinen (Helsinki, FI)*

14.50 **77**

**Narcolepsy as an autoimmune disease: current immunogenetic and immunological evidence**

*B. Rahbeck Komum (Glostrup, DK)*

15.10

**Discussion:**

**Hot topics and questions about narcolepsy as an autoimmune disease**

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**13.30 – 15.30 Symposium** Lecture Hall D

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**"Circadian or sleep-wake driven? Dissecting central and peripheral transcriptome dynamics"**

*Chairs: P. Franken (Lausanne, CH)*

*T. Paunio (Helsinki, FI)*

**79**

**Brain gene expression in the mouse; the complex interaction of time-spent-awake, time-of-day, and stress**

*P. Franken (Lausanne, CH)*

**80**

**Interaction of sleep timing and clock function in the regulation of circadian transcriptome rhythms**

*H. Oster (Lübeck, DE)*

**81**

**Mistimed sleep disrupts the circadian regulation of the human transcriptome**

*S. Archer, E.E. Laing, C.S. Moller-Levet, D.R. van der Veen, G. Bucca, A.S. Lazar, J.C.Y. Lo, N. Santhi, A. Slak, R. Kabiljo, M. von Schantz, C.P. Smith, D.J. Dijk (Guildford, GB)*

**82**

**Body temperature cycles: gatekeepers of circadian clocks**

*I. Gotic (Geneva, CH)*

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**13.30 – 15.30 Symposium** Lecture Hall E

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**Sleep and brain maturation: development of sleep-regulatory mechanisms and interactions between sleep and brain maturation**

*Chairs: I. Gvilia (Tbilisi, GE)  
M. Kimura (Munich, DE)*

- 83 Post-weaning development of sleep and sleep-regulatory mechanisms in the rat**  
*I. Gvilia (Tbilisi, GE)*
- 84 Life-long alterations of sleep patterns and emotional behavior after transient serotonin impairments during development**  
*J. Adrien (Paris, FR)*
- 85 Sleep maturation and developmental disorders**  
*S. Nevsimalova (Prague, CZ)*
- 86 Influence of pre- and post-natal environmental factors on sleep maturation in infants**  
*P. Franco (Lyon, FR)*
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**16.00 – 16.45 Keynote Lecture** Lecture Hall A

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*Chair: P. Peigneux (Brussels, BE)*

- 87 Memory consolidation: synaptic tagging, schemas and sleep**  
*R. Morris (Edinburgh, GB)*
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**17.00 – 18.00 Oral Session** Lecture Hall A

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**Sleep across the ages**

*Chairs: J. Carrier (Montreal, CA)  
P. Achermann (Zurich, CH)*

- 17.00 **88 Cortical thinning mediates age-related changes in NREM sleep oscillations during adulthood**  
*J. Dubé, M. Lafortune, M. Bouchard, T. Rosinvil, P.-O. Gaudreault, J.-M. Lina, J. Doyon, A. Evans, J. Carrier (Montréal, CA)*
- 17.12 **89 Developmental changes in sleep oscillations during early childhood**  
*E. Olbrich, M.K. LeBourgeois, P. Achermann (Leipzig, DE; Boulder, US; Zürich, CH)*
- 17.24 **90 Association between white matter integrity markers in the corpus callosum and NREM interhemispheric EEG coherence in aging**  
*M. Bouchard, M. Lafortune, J. Dubé, P.-O. Gaudreault, J. Godbout, C. Bedetti, J.-M. Lina, J. Doyon, J. Carrier (Montreal, CA)*
- 17.36 **91 Effects of long-term caloric restriction on circadian rhythms of aged rats**  
*K.A. Dunberry, M. Malick, G. Ferland, P. Gaudreau, G. Rousseau, R. Godbout (Montréal, CA)*
- 17.48 **92 Are age-related modifications in spindle characteristics linked to markers of white matter integrity?**  
*P.-O. Gaudreault, M. Lafortune, C. Bedetti, J. Dubé, M. Bouchard, J.-F. Gagnon, J. Doyon, N. Gosselin, J. Carrier (Montreal, CA)*
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**The European Insomnia Network: an update**

Chairs: D. Riemann (Freiburg, DE)  
E. Van Someren (Amsterdam, NL)

- 93 **Insomnia treatment as prevention of psychiatric and cardiovascular diseases**  
*K. Spiegelhalder (Freiburg, DE)*
- 94 **Sleep restriction therapy: effectiveness, mechanisms and potential for adverse effects**  
*S.D. Kyle (Manchester, GB)*
- 95 **The cognitive components of CBT-I**  
*M. Jansson-Fröjmark (Stockholm, SE)*
- 96 **Insomnia subtypes**  
*E. Van Someren (Amsterdam, NL)*

**Sleep apnea**

Chairs: J. Verbraecken (Antwerp, BE)  
T. Saaresranta (Turku, FI)

**General discussion**

- 97a **Do we need an OSA network in Europe? Upsides and possibilities associated with research networks in sleep apnea**  
*W. McNicholas (Dublin, IE)*
- 97b **The European Sleep Apnea Database (ESADA) – what has been achieved so far?**  
*J. Hedner (Gothenburg, SE)*
- Update on recent ESADA data**
- 97c **Sleep apnea and renal function**  
*M. Bonsignore (Palermo, IT)*
- 97d **Advanced Sleep EEG analysis in the ESADA network**  
*T. Penzel (Berlin, DE)*
- 97e **Use of the Clinical Global Impression Scale in the ESADA cohort**  
*L. Grote (Gothenburg, SE)*
- 97f **Periodic limb movements and blood pressure in OSA**  
*G. Parati (Milan, IT)*

Wednesday, 17 September 2014

**17.00 – 18.30 European Network Session** Lecture Hall D

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**EURLSSG Network**

*Chairs: B. Högl (Innsbruck, AT)  
R. Ferri (Troina, IT)*

- 17.00 **98** **Nocturnal eating and nocturnal smoking in RLS**  
*F. Provini (Bologna, IT)*
- 17.30 **99** **EEG high frequencies and hyperarousal during the sleep onset period in patients with restless legs syndrome**  
*R. Ferri (Troina, IT)*
- 18.00 **100** **Peripheral hypoxia in RLS**  
*O. Polo (Tampere, FI)  
A. Salminen (Tampere, FI)*
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**17.00 – 18.30 European Network Session** Lecture Hall E

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**EUropean Narcolepsy Network EU-NN**

*Chair: G.J. Lammers (Leiden, NL)*

- 101** **Past: overview of EU-NN publications and achievements since 2012**  
*G.J. Lammers (Leiden, NL)*
- 102** **Present: current projects and databases**  
*M. Tafti (Lausanne, CH)  
M. Partinen (Helsinki, FI)  
R. Khatami*
- 103** **Future: where are we heading?**  
*G.J. Lammers (Leiden, NL)  
R. Riha (Edinburgh, GB)*

**Presentations to host European Narcolepsy Day 2015 and 2016**

**18.30 – 20.00 Poster Sessions** Poster Exhibition

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**(Please refer to pages 41 - 56 for details)**

Pharmacology and Biochemistry	P305-P309
Physiology	P310-P345
Learning, Memory and Cognition 1	P346-P364
Instrumentation and Methodology (Basic Sleep Science)	P365-P380
Sleep Disorders - Breathing 1	P381-P422
Sleep Disorders - Circadian Rhythms	P423-P439
Sleep Disorders - Insomnia 1	P440-P472
Sleep Disorders – Parasomnias	P473-P482
Medical Disorders and Sleep	P483-P523
Normal Physiology of Sleep and Normal Variants	P524-P533
Instrumentation and Methodology	P534-P552

Thursday, 18 September 2014

**08.00 – 10.00**     **Joint Symposium**

Lecture Hall A

**Joint Symposium EAN-ESRS**

**Update on the neurology of sleep**

*Chairs:*     *C. Bassetti (Berne, CH)*  
                 *L. Nobili (Milan, IT)*

- 104**     **Hypersomnia and insomnia secondary to brain damage**  
*C. Bassetti (Berne, CH)*
- 105**     **Sleep and epileptogenesis**  
*L. Nobili (Milan, IT)*
- 106**     **RLS: a dopamine dysregulation syndrome?**  
*L. Ferini-Strambi (Milan, IT)*
- 107**     **Sleep and movement disorders**  
*J. Santamaria (Barcelona, ES)*

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**08.00 – 10.00**     **Symposium**

Lecture Hall B

**Farewell to the two-process model?**

*Chairs:*     *A. Borbély (Zurich, CH)*  
                 *P. Peigneux (Brussels, BE)*

- 108**     **The two-process model: origin and perspective**  
*S. Daan, R.A. Hut, D. Beersma (Groningen, NL)*
- 109**     **Interaction of sleep homeostasis and circadian rhythms**  
*T. de Boer (Leiden, NL)*
- 110**     **The two-process model: its impact on clinical research**  
*A. Wirz-Justice (Basel, CH)*
- 111**     **Sleep and the environmental 24-hour cycle**  
*A. Borbély (Zurich, CH)*

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**08.00 – 10.00**     **Symposium**

Lecture Hall C

**Sleep and the social brain**

*Chairs:*     *J. Axelsson (Stockholm, SE)*  
                 *M. Ferrara (L'Aquila, IT)*

- 112**     **Sleep loss, prefrontal cortex function and behavioral control**  
*P. Meerlo (Groningen, NL)*
- 113**     **Sleep and emotion processing in children**  
*M. Le Bourgeois (Boulder, US)*
- 114**     **Sleep loss and emotion in adolescents and adults**  
*P. Franzen (Pittsburgh, US)*
- 115**     **Sleep, appearance and social interactions**  
*J. Axelsson (Stockholm, SE)*



**Technical aspects of scoring sleep**

*Chairs: S. de Lacy (Orihuela Costa, ES)  
J. Puertas (Valencia, ES)*

- 08.00 116 **Sleep apnea diagnosis greatly varies with the hypopnea criteria applied**  
*L.B. Ponsaing, H.K. Iversen, P. Jennum (Glostrup, DK)*
- 08.12 117 **Scoring criteria for polygraphy: a comparison with full polysomnography using four hypopnea definitions in a population based sleep cohort**  
*S. Vat, J. Haba Rubio, N. Tobback, D. Andries, M. Tafti, R. Heinzer (Lausanne, CH)*
- 08.24 118 **Transcutaneous carbon dioxide during periodic breathing and upper airway flow-limitation during sleep**  
*V. Rimpilä, T. Saaresranta, K. Hosokawa, H. Huhtala, A.V. Salminen, O. Polo (Tampere, FI)*
- 08.36 119 **A validation study of the Watch PATm in participants of the Akershus sleep apnoea project (ASAP)**  
*H. Hrubos-Strøm, A. Randby, S.K. Namtvedt, G. Einvik, T. Omland (Lørenskog, NO)*
- 08.48 120 **Transition to home monitoring for OSA diagnosis: effects on test availability, waiting time, patients' satisfaction and outcome in a large health provider system**  
*G. Pillar, A. Safadi, T. Etzioni, D. Fliss, C. Shapira (Haifa, Tel Aviv, IL)*
- 09.00 121 **High cardiac vagal control during wakefulness predicts better subjective and objective sleep quality**  
*G.G. Werner, B.Q. Ford, I.B. Mauss, J. Blechert, M. Schabus, F.H. Wilhelm (Salzburg, AT; Berkeley, US)*
- 09.12 122 **K-Complex characteristics in obstructive sleep apnea syndrome**  
*S. Parapatits, G. Gruber, P. Anderer, G. Saletu-Zyhlarz (Vienna, AT)*
- 09.24 123 **Physiologically-based brain state estimation and dynamics**  
*R.G. Abeyesuriya, C.J. Rennie, P.A. Robinson, S. Postnova (Sydney, AU)*
- 09.36 124 **The maintenance of wakefulness test: an electro-physiological measure to better evaluate adult patients with attention deficit/hyperactivity disorder**  
*S. Bioulac, C. Chauton, J. Taillard, P. Sagaspe, P. Philip (Bordeaux, FR)*

**Investigating the function(s) of sleep from the perspective of a single cell to the systems level**

*Chairs: R. Huber (Zurich, CH)  
T. de Boer (Leiden, NL)*

- 125 **Global sleep and single-cell rest**  
*V.V. Vyazovskiy (Surrey, GB)*
- 126 **Astroglia and sleep regulation**  
*M. Frank (Philadelphia, US)*
- 127 **Evolution of slow-wave sleep**  
*N. Rattenborg (Seewiesen, DE)*
- 128 **Sleep homeostasis in vitro**  
*M. Tafti (Lausanne, CH)*

Thursday, 18 September 2014

**10.30 – 12.30 Symposium**

Lecture Hall B

**What keeps you awake? Insomnia subtypes**

*Chairs: E. Van Someren (Amsterdam, NL)  
D. Riemann (Freiburg, DE)*

- 129 **Persistent insomnia: the role of objective short sleep duration and mental health**  
*A. Vgontzas (Hershey, US)*
- 130 **The use of brain imaging to define subtypes of insomnia and corresponding different underlying mechanisms**  
*E.J.W. Van Someren (Amsterdam, NL)*
- 131 **Predicting transitions between acute and chronic insomnia using insomnia subtypes**  
*J. Ellis (Newcastle upon Tyne, GB)*
- 132 **The use of internet to find insomnia subtypes: mining a large database**  
*J.S. Benjamins (Amsterdam, NL)*

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**10.30 – 11.30 Round Table**

Lecture Hall C

**Sleep disordered breathing: what device to choose**

*Chair: R. Riha (Edinburgh, GB)*

- 10.30 **133a Introduction**  
*R. Riha (Edinburgh, GB)*
- 10.35 **133b Which device should be used for the diagnosis of sleep-disordered breathing?**  
*E. Hill (Edinburgh, GB)*
- 10.50 **133c Which device should be used for treating sleep-disordered breathing?**  
*T. Saaresranta (Turku, FI)*
- 11.05 **133d Should follow-up of sleep disordered breathing be device-driven? Is compliance so important? Is there a role for telemonitoring?**  
*J.-L. Pepin (Grenoble, FR)*
- 11.20 **Open discussion with questions from the audience to the panel and chairperson**

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**11.30 – 12.30 Round Table**

Lecture Hall C

**Sleep in pathological ageing**

*Chair: M.D. Gjerstad (Stavanger, NO)*

- 11.30 **134 Introduction: sleep in the ageing brain**  
*M.D. Gjerstad (Stavanger, NO)*
- 11.35 **135 Exercise benefits for the aging brain**  
*M.D. Gjerstad (Stavanger, NO)*
- 11.55 **136 Sleep in dementia**  
*G. Rauchs (Caen, FR)*
- 12.15 **Discussion**

Thursday, 18 September 2014

10.30 – 12.30 Symposium

Lecture Hall D

**Metabolic, cerebral and behavioural consequences of sleep loss and circadian misalignment**

*Chairs:* C. Schmidt (Basel, CH)  
S. Archer (Giuldford, GB)

- 137 **Impact of circadian phase and prior wakefulness on cognition-related cerebral activity in humans**  
*C.F. Reichert, M. Maire, V. Gabel, A.U. Viola, K. Scheffler, M. Klarhöfer, W. Strobel, C. Cajochen, C. Schmidt (Basel, CH)*
- 138 **Sleep homeostasis and the circadian timing system set the dynamics and excitability of neuronal ensembles**  
*G. Vandewalle (Liège, BE)*
- 139 **Metabolic consequences of circadian misalignment and insufficient sleep**  
*K. Wright (Boulder, US)*
- 140 **Diversity in sleep homeostatic and circadian regulation of plasma lipids in human**  
*J.J. Gooley (Singapore, SG)*

10.30 – 12.30 Symposium

Lecture Hall E

**Sleep and memory consolidation: new insights and models**

*Chairs:* G. Albouy (Montreal, CA)  
S. Schwartz (Geneva, CH)

- 141 **New model detailing the role of the hippocampus in sleep-related procedural memory consolidation**  
*G. Albouy (Montreal, CA)*
- 142 **Upgrading the sleeping brain with targeted memory reactivation**  
*D. Oudiette (Evanston, US)*
- 143 **New insights on the consolidation of emotional memories during sleep**  
*V. Sterpenich (Geneva, CH)*
- 144 **Sleep-dependent motor memory consolidation from adolescence to adulthood**  
*K. Hoedlmoser (Salzburg, AT)*

12.45 – 13.45 Satellite Industry Symposium

Lecture Hall D

**Nox Medical**

**From habitual snoring to obstructive sleep apnea – How to measure and who needs treatment?**

*Chair:* T. Penzel (Berlin, DE)

- 144a **Sleep disordered breathing in the general population – A major public health problem**  
*T. Gislason (Reykjavik, IS)*
- 144b **Breath-by-breath analyses – new ways to assess respiratory effort**  
*E. Sif Arnardottir (Reykjavik, IS)*

Thursday, 18 September 2014

**12.30 – 14.00**      **Lunch and Poster Viewing** Exhibition

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**12.45 – 13.45**      **Educational Session on Publishing** Lecture Hall E

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**How do you want your sleep research to be published?**

*Chairs:*      *D.-J. Dijk (Guildford, GB)*  
                 *L. Cranfield (Frederiksberg, DK)*

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**14.00 – 15.00**      **Oral Session** Lecture Hall A

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**Hypersomnia: diagnosis to treatment**

*Chairs:*      *Y. Dauvilliers (Montpellier, FR)*  
                 *J. Santamaria (Barcelona, ES)*

- 14.00      **145**      **Perception of sleepiness in a driving simulator is better than perception in the maintenance of wakefulness test**  
*D. Schreier, C. Roth, J. Mathis (Bern, CH)*
- 14.12      **146**      **Narcolepsy in Norway after 2009 +/- H1N1-vaccination - the 4 year status**  
*M.S. Heier, K.M. Gautvik, E. Waanag, K.H. Bronder, E. Midtlyng, Y. Kamaleri, P.M. Thorsby, J. Storsaeter, S. Knudsen (Oslo, NO)*
- 14.24      **147**      **Oral JZP-110 (ADX-N05) for the treatment of excessive daytime sleepiness in adults with narcolepsy: results of a randomised, double-blind, placebo-controlled trial**  
*J. Black, T. Swick, N. Feldman, R. Doekel Jr, M. Khayrallah, G. Bream, C. Ruoff (Birmingham, Houston, Morrisville, Palo Alto, Redwood City, St. Petersburg, US)*
- 14.36      **148**      **Modafinil improves real driving performance in patients with hypersomnia: a randomized double-blind placebo-controlled crossover clinical trial**  
*P. Philip, C. Chauton, J. Taillard, A. Capelli, O. Coste, D. Léger, N. Moore, P. Sagaspe (Bordeaux, Paris, FR)*
- 14.48      **149**      **Sodium oxybate for the treatment of excessive daytime sleepiness and cataplexy in patients with narcolepsy: time to response**  
*R.K. Bogan, T. Roth, J. Schwartz, M. Miloslavsky (Columbia, Detroit, Oklahoma City, Palo Alto, US)*
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**Circadian rhythm disorders from clock to clocking off**

*Chairs: C. Cajochen (Basel, CH)  
C. Gronfier (Bron, FR)*

- 14.00 150 **Core temperature and melatonin circadian rhythm period lengths are longer in delayed sleep phase disorder patients than controls**  
*G. Micic, N. Lovato, M. Gradisar, S.A. Ferguson, H.J. Burgess, L.C. Lack (Adelaide, AU; Chicago, US)*
- 14.12 151 **Measuring melatonin in saliva before the start of light therapy in delayed sleep phase disorder**  
*K. Danielsson, M. Jansson-Fröjmark, J.-E. Broman, A. Markström (Stockholm, Uppsala, SE)*
- 14.24 152 **Difficult morning awakening from REM sleep and impaired cognitive function in delayed sleep phase disorder patients**  
*B. Solheim, K. Langsrud, H. Kallestad, A. Olsen, B. Bjorvatn, T. Sand (Bergen, Trondheim, NO)*
- 14.36 153 **How does alertness differ between healthy employees and those with shift work disorder?**  
*P. Vanttola, M. Härmä, K. Viitasalo, C. Hublin, P. Niemelä, M. Sallinen, J. Virkkala, S. Puttonen (Helsinki, Vantaa, FI)*
- 14.48 154 **Sleep schedules and social jetlag in students with delayed sleep phase disorder and controls**  
*I.W. Saxvig, A. Wilhelmsen-Langeland, S. Pallesen, B. Bjorvatn (Bergen, NO)*

**Sound asleep: the translation of sleep patterns into music**

*Chairs: M. Mermikides (Guildford, GB)  
D. Skene (Guildford, GB)*

- 155 **Hidden music: the history and art of data sonification, translating physical and biological phenomena into sound**  
*M. Mermikides (Guildford, GB)*
- 156 **Making sleep visible to the blind**  
*D. Skene (Guildford, GB)*
- 157 **PSG nocturne: converting PSG data into multi-layered musical compositions**  
*R. Riha (Edinburgh, GB)*
- 158 **The inner sound of sleep: converting EEG waves into the audio spectrum**  
*V. Vyazovskiy (Surrey, GB)*

Thursday, 18 September 2014

**14.00 – 15.00 Video Session**

Lecture Hall D

**Paroxysmal motor phenomena during sleep**

*Chair: R. Manni (Pavia, IT)*

**159 Unusual motor phenomena during sleep**

*F. Provini (Bologna, IT)*

**160 Paroxysmal motor patterns in nocturnal frontal lobe epilepsy**

*C. Derry (Edinburgh, GB)*

**161 Motor patterns during sleep in extrapyramidal diseases**

*B. Högl (Innsbruck, AT)*

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**14.00 – 15.00 Case Discussion**

Lecture Hall E

**Therapy refractory insomnia: what to do?**

*Chair: D. Riemann (Freiburg, DE)*

**162 The complicated co-morbid insomniac patient. Diagnosis and management**

*P. Jennum (Glostrup, DK)*

**163 Insomnia disorder in the context of psychosis?**

*C. Espie (Oxford, GB)*

**164 Insomnia is sometimes incurable**

*H.L. Hamburger (Amsterdam, NL)*

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**15.30 – 16.15 Keynote Lecture**

Lecture Hall A

*Chair: D. Riemann (Freiburg, DE)*

**165 Sleep, mental illness and health: frontiers in transdiagnostic empirically grounded treatment generation**

*A. Harvey (Berkeley, US)*

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Thursday, 18 September 2014

**16.15 – 17.45**      **Poster Sessions** Poster Exhibition

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(Please refer to pages 57 - 72 for details)

Ontogeny/Aging	P553-P558
Chronobiology	P559-P586
Learning, Memory and Cognition 2	P587-P606
Dreaming	P607-P609
Sleep Deprivation 1	P610-P629a
Sleep Disorders - Breathing 2	P630-P674
Sleep Disorders - Insomnia 2	P675-P707
Sleep Disorders - Movement Disorders	P708-P736
Psychiatric and Behavioural Disorders and Sleep	P737-P759
Sleep and Aging	P760-P776
Healthcare Services, Research and Education	P777-P794

**16.30 – 18.00**

Sokos Hotel Viru, Conference Room Allegro

**Meeting of the European Academy of Neurology (EAN) Sleep Neurology Panel (EAN-SNP)  
with ESRS neurologists**

**18.00 – 20.00**      **ESRS Business Meeting**

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Lecture Hall B

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**08.00 – 10.00**      **Symposium** Lecture Hall A

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**Metabolomics in sleep research: integration from animals to humans**

*Chairs:*      *T. Porkka-Heiskanen (Helsinki, FI)*

*P. Meerlo (Groningen, NL)*

- 166**      **Metabolic consequences of chronic sleep restriction in rats**  
*P. Meerlo (Groningen, NL)*
- 167**      **Lipid profiles after experimental restriction of sleep and in an epidemiological cohort reporting insufficient sleep**  
*T. Porkka-Heiskanen (Helsinki, FI)*
- 168**      **Chronic sleep restriction alters metabolomic profiles in healthy humans**  
*N. Goel (Philadelphia, US)*
- 169**      **Effect of sleep deprivation on human plasma metabolome rhythms**  
*D.J. Skene, S.K. Davies, J.E. Ang, V.L. Revell, B. Holmes, A. Mann, R. Robertson, N. Cui, B. Middleton, K. Ackermann, M. Kayser, A.E. Thumser, F.I. Raynaud (Guildford, London, GB; Rotterdam, NL)*
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**08.00 – 10.00**      **Symposium** Lecture Hall B

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**Sleep-related neurostimulation: mechanisms and clinical implications**

*Chairs:*      *C. Nissen (Freiburg, DE)*

*M. Massimini (Milan, IT)*

- 170**      **Investigating sleep homeostasis by means of transcranial magnetic stimulation**  
*R. Huber (Zurich, CH)*
- 171**      **Closed-loop stimulation of sleep oscillations**  
*H.-V. Ngo (Tübingen, DE)*
- 172**      **The impact of high-frequency stimulation on sleep**  
*H. Danker-Hopfe (Berlin, DE)*
- 173**      **The modulation of sleep continuity through transcranial direct current stimulation (TDCS)**  
*C. Nissen, L. Frase, H. Piosczyk, B. Feige, A. Sterr, D. Riemann (Freiburg, DE; Guildford, GB)*
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Friday, 19 September 2014

**08.00 – 10.00 Symposium**

Lecture Hall C

**Impact of sleep disordered breathing in neurological sleep disorders**

*Chairs: R. Riha (Edinburgh, GB)  
M. Zucconi (Milan, IT)*

- 174 Sleep disordered breathing in epilepsy**  
*C. Derry (Edinburgh, GB)*
- 175 Sleep disordered breathing and paradoxical insomnia**  
*D. Pevernagie (Rotterdam, NL)*
- 176 Role of sleep disorder breathing in REM sleep behavior disorder**  
*A. Iranzo (Barcelona, ES)*
- 177 Sleep disordered breathing in diagnoses of narcolepsy**  
*R. Riha (Edinburgh, GB)*

**08.00 – 10.00 Symposium**

Lecture Hall D

**Behavior problems and treatment possibilities in child and adolescent sleep problems**

*Chairs: A. Schlarb (Bielefeld, DE)  
A.M. Meijer (Amsterdam, NL)*

- 178 Internalizing behavior problems in primary school children with insomnia**  
*B. Schwerdtle, A. Kübler, A.A. Schlarb (Würzburg, DE)*
- 179 Melatonin treatment and classical conditioning in children with delayed sleep phase**  
*A. van Maanen, A.M. Meijer, M.G. Smits, F.J. Oort (Amsterdam, Ede, NL)*
- 180 Aggression and violent behavior and sleep problems in young students**  
*A.A. Schlarb, R. Sopp (Bielefeld, Landau, DE)*
- 181 Efficacy of cognitive behavior therapy in adolescents with insomnia: an RCT with group-CBTi, internet-CBTi and a waiting list condition**  
*E.J. de Bruin, F.J. Oort, S.M. Bögels, A.M. Meijer (Amsterdam, NL)*

**10.30 – 12.30 Joint Symposium**

Lecture Hall A

**Joint Symposium EBRs-ESRS**

**Linking clocks and sleep**

*Chairs: D. Skene (Guildford, GB)  
P. Peigneux (Brussels, BE)*

- 182 Identifying pathways modulating sleep duration: From genomics to transcriptomics**  
*K. Allebrandt (Munich, DE)*
- 183 Shift work in flies**  
*R. Costa (Padua, IT)*
- 184 Sleep, circadian, metabolism**  
*F. Turek (Evanston, US)*
- 185 Sleep, circadian, genetics, EEG: How synaptic adhesion molecules contribute to sleep regulation?**  
*V. Mongrain (Montreal, CA)*

Friday, 19 September 2014

10.30 – 12.30 Symposium

Lecture Hall B

**Complex breathing disorders during sleep**

Chairs: *D. Pevernagie (Gent, BE)*  
*W. McNicholas (Dublin, IE)*

- 186 **Natural evolution of complex sleep apnea: polysomnographic results**  
*W. Cassel (Marburg, DE)*
- 187 **The interaction of obesity, pulmonary disease and sleep-disordered breathing**  
*A. Rossi (Bergamo, IT)*
- 188 **The role of the "central" component in the pathophysiology of complex breathing disorders during sleep**  
*J. Verbraecken (Egedem, BE)*
- 189 **Therapeutical approach of complex breathing disorders during sleep**  
*W. Randerath (Solingen, DE)*

10.30 – 12.30 Symposium

Lecture Hall C

**Sensorimotor processes in REM sleep: from RBD to rat pups to robots**

Chairs: *J. Peever (Toronto, CA)*  
*C. Bassetti (Berne, CH)*

- 190 **Neuro-circuits controlling muscle atonia during paradoxical (REM) sleep**  
*P.-H. Luppi (Lyon, FR)*
- 191 **Biological functions of muscle tone suppression in sleep**  
*J. Peever (Toronto, CA)*
- 192 **Developing the sensorimotor system in our sleep**  
*M. Blumberg (Iowa City, US)*
- 193 **Sleeping robots: How sleep behaviour drives the development of spinal circuits**  
*H. Gravato Marques (Zurich, CH)*

**Memory, cognition and dreaming**

*Chairs: M. Schabus (Salzburg, AT)  
S. Fogel (Montreal, CA)*

- 10.30 194 **Memory deficits associated with sleep loss can be prevented by targeting a single phosphodiesterase isoform selectively in excitatory neurons of the hippocampus**  
*R. Havekes, J.H.K. Choi, V.M. Bruinenberg, G.S. Baillie, K. Krainnock, S.J. Aton, P. Meerlo, M.D. Houslay, T. Abel (Ann Arbor, Philadelphia, US; Groningen, NL; Glasgow, London, GB)*
- 10.42 195 **Selective intervention in hippocampal vs. cortical consolidation**  
*L. Genzel, R. Fitzpatrick, J. Rossato, R.G.M. Morris (Edinburgh, GB)*
- 10.54 196 **Working memory ability and topographical distribution of sleep slow wave activity in children and adolescents**  
*F. Wehrle, B. Latal, R. O'Gorman, L. Kaufmann, A. Hüsser, C. Verrey, H. Breden, C. Hagmann, R. Huber (Zurich, CH; Hall, AT)*
- 11.06 197 **Motor memory consolidation depends upon reactivation driven by the action of sleep spindles**  
*S. Fogel, G. Albouy, B.R. King, C. Vien, A. Karni, H. Benali, P. Maquet, J. Carrier, J. Doyon (Montreal, CA; Haifa, IL; Paris, FR; Liege, BE)*
- 11.18 198 **The schema effect and sleep-dependent memory consolidation**  
*N. Hennes, M.A. Lambon Ralph, J. Cousins, P.A. Lewis (Manchester, GB)*
- 11.30 199 **Sleep- and hippocampus-dependent memory consolidation in patients with obstructive sleep apnea**  
*P.C. Baier, S.L. Weinhold, L. Kaselow, I. Matthäi, R. Göder (Kiel, DE)*
- 11.42 200 **A nap to recap: daytime sleep strengthens rewarded relational memory**  
*K. Igloi, G. Gaggioni, V. Sterpenich, S. Schwartz (Geneva, CH)*
- 11.54 201 **Circadian regulation in cognition and subjective assessment of waking function in humans**  
*N. Santhi, A.S. Lazar, P. McCabe, S.N. Archer, J.A. Groeger, D.-J. Dijk (Guildford, Hull, GB)*
- 12.06 202 **The nature of delayed dream incorporation: personally significant events persist, but not major daily activities or concerns**  
*M.T. Blagrove, J.-B. Eichenlaub, E. van Rijn, M. Phelan, L. Ryder, G. Gaskell, P. Lewis, M.P. Walker (Manchester, Swansea, York, GB; Berkeley, US)*
- 12.18 203 **Risk factors for frequent nightmares among the general Finnish adult population**  
*N. Sandman, K. Valli, E. Kronholm, A. Revonsuo, T. Laatikainen, T. Paunio (Helsinki, Kuopio, Turku, FI)*
-

**Paediatrics: what`s normal, what`s not**

*Chairs: O. Jenni (Zurich, CH)  
P. Franco (Lyon, FR)*

- 10.30 204 **Influence of body growth on sleep during the first days of life in preterm neonates**  
*P. Décima, A. Léké, F. Telliez, S. Delanaud, V. Bach, J.-P. Libert, P. Tourneux, E. Stéphan-Blanchard (Amiens, FR)*
- 10.42 206 **Evaluation of school-based sleep interventions: does adjunct bright light therapy and parental involvement improve treatment outcomes?**  
*D. Bonnar, M. Gradisar, L. Moseley, A.-M. Coughlin, N. Cain, M.A. Short (Adelaide, AU)*
- 10.54 207 **Incident sleep-disordered breathing associated with cardiovascular risk factors: the Penn State Child Cohort**  
*E.O. Bixler, D. Liao, A.N. Vgontzas, J. Fernandez-Mendoza, F. He, S. Rodriguez-Colon, S. Elavsky, A. Vela-Bueno (Hershey, US; Madrid, ES)*
- 11.06 208 **Increased cortisol levels are associated with polysomnographic sleep disturbance in adolescence**  
*J. Fernandez-Mendoza, J. Gaines, S. Calhoun, A. Vgontzas, D. Liao, E. Bixler (Hershey, US)*
- 11.18 209 **Gender differences in the relative effect of sleep disordered breathing and obesity on neurocognitive functioning in adolescents**  
*S.L. Calhoun, J. Fernandez-Mendoza, J. Gaines, A.N. Vgontzas, D. Liao, E.O. Bixler (Hershey, US)*
- 11.30 210 **Habitual sleep variability, not sleep duration, is associated with abdominal obesity in adolescents – Penn State Child Cohort Study (PSCC)**  
*D. Liao, A. Berg, Y.I. Kawasawa, F. He, S. Elavsky, E.O. Bixler (Hershey, US)*
- 11.42 211 **REM sleep and emotional face memory in typically developing children and children with autism**  
*S. Tessier, A. Lambert, E. Chevrier, P.B. Scherzer, B. Jemel, R. Godbout (Montréal, CA)*
- 11.54 212 **The effect of nighttime sleep patterns on sensitivity to reward in healthy adolescents**  
*S. Reyes, C. Algarin, B. Luna, B. Lozoff, P. Peirano (Santiago, CL; Ann Arbor, Pittsburgh, US)*
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Friday, 19 September 2014

**12.30 – 14.00**      **Symposium** Top Floor Foyer

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**ESRS Young Researchers Network**

*Chair: D. Skene (Guildford, GB)*

- 12.30    **213a**    **Welcome and opening remarks**  
*D. Skene (Guildford, GB)*
- 12.35    **213b**    **Ideas on the purpose and future of the ESRS Young Researcher Network**  
*E. Sif Arnardottir (Reykjavik, IS)*
- 12.40            **Table discussions**
- 12.55            **A representative from each table will present the ideas from the table discussion to the whole group**
- 13.25            **Closing remarks, future actions**

**12.30 – 14.00**      **Lunch and Poster Viewing** Exhibition

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**14.00 – 16.00**      **Symposium** Lecture Hall A

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**Sleep changes in aging: causes and consequences**

*Chairs: J.F. Duffy (Boston, US)  
H.-P. Landolt (Zurich, CH)*

- 214**    **Age-related changes in the molecular and cellular mechanisms of sleep homeostasis**  
*K.-M. Zitting (Boston, US)*
- 215**    **Brain mechanisms underlying age-related changes in NREM sleep: contributions from fMRI/MRI studies**  
*J. Carrier (Montreal, CA)*
- 216**    **Age-related changes in circadian photoreception: consequences for sleep**  
*C. Gronfier (Bron, FR)*
- 217**    **Sleep quality and cognitive decline in ageing**  
*D.-J. Dijk (Surrey, GB)*
-

Friday, 19 September 2014

14.00 – 16.00 Symposium

Lecture Hall B

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**Parkinson's disease and sleep: a multifaceted interaction**

*Chairs:* S. Overeem (Nijmegen, NL)  
J. Santamaria (Barcelona, ES)

- 218 **Clinical aspects of sleep dysfunction in Parkinson's disease**  
*C. Baumann (Zurich, CH)*
- 219 **Sleep changes as a prodromal marker of Parkinson's disease**  
*A. Iranzo (Barcelona, ES)*
- 220 **Sleep benefit in Parkinson's disease**  
*M. van Gilst (Nijmegen, NL)*
- 221 **Mechanisms of sleep disturbances in Parkinson's disease**  
*I. Arnulf (Paris, FR)*

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14.00 – 16.00 Symposium

Lecture Hall C

**OSA in Europe; phenotypes, metabolism, accident risk, and treatment**

*Chairs:* M. Bonsignore (Palermo, IT)  
E. Sõõru (Tallinn, EE)

- 222 **OSA – same, same but different?**  
*L. Grote (Gothenburg, SE)*
- 223 **Metabolic effects of OSA**  
*W. McNicholas (Dublin, IE)*
- 224 **Traffic accident risk in European patients with obstructive sleep apnea**  
*M. Karimi (Gothenburg, SE)*
- 225 **OSA treatment outcome in Europe**  
*J. Verbraecken (Edegem, BE)*
-

**Cell and molecular biology and genetics**

Chairs: S. Archer (Guildford, GB)  
S. Montagnese (Padua, IT)

- 14.00 226 **Effects of circadian typology and partial and total sleep deprivation on the human transcriptome**  
*S.N. Archer, S. Kitamura, N. Santhi, D.-J. Dijk (Guildford, GB)*
- 14.12 227 **A role for mGluR5-mediated signaling in regulating neurophysiological markers of sleep homeostasis in humans**  
*S.C. Holst, K. Hefti, A. Baumer, A. Buck, S.M. Ametamey, M. Scheidegger, R. Dürr, A. Henning, E. Seifritz, H.-P. Landolt (Zurich, CH)*
- 14.24 228 **Length polymorphism in the human clock gene *Period3* and diurnal preference, subjective sleepiness and the response to morning light**  
*M. Turco, L. Caccin, M. Corrias, A. Biscontin, C. De Pittà, B. Middleton, D.J. Skene, R. Costa, S. Montagnese (Padova, IT; Guildford, GB)*
- 14.36 229 **Melatonin receptor locus associates with shift work intolerance – genome-wide study and replications**  
*S. Sulkava, H.M. Ollila, S. Puttonen, M. Härmä, K. Viitasalo, J. Lindström, M. Kivimäki, J. Vahtera, T. Partonen, V. Salomaa, T. Porkka-Heiskanen, T. Paunio (Helsinki, FI)*
- 14.48 230 **EEG-vigilance regulation in carriers of bipolar disorder risk alleles**  
*P. Jawinski, C. Sander, N. Mauche, J. Spada, R. Burkhardt, M. Häntzsch, U. Hegerl, T. Hensch (Leipzig, DE)*
- 15.00 231 **Orexin physiologically regulates beta-amyloid and tau metabolism: a cerebrospinal-fluid in vivo study**  
*C. Liguori, A. Romigi, N.B. Mercuri, F. Izzì, M. Albanese, M.G. Marciani, F. Placidi (Rome, IT)*
- 15.12 232 **The protector effect of transgene GDNF on sleep in MPTP mouse model of Parkinson's disease**  
*A.I. Manolov, V.V. Dolgikh, A.V. Revishchin, G.V. Pavlova, I.M. Zavalko, L.S. Moiseenko, Y.V. Ukraintseva, N.S. Bazhenova, D.R. Galimova, V.B. Dorokhov, V.M. Kovalzon (Moscow, RU)*
- 15.24 233 **Microphage migration inhibitory factor -173 G/C promoter polymorphism and serum levels correlate with obstructive sleep apnea**  
*Y. Singh, R. Guleria, N.K. Vikram, S. Vivakanandhan (New Delhi, IN)*
- 15.36 234 **Viral insertion screen implicates the conserved vertebrate gene *dreammist* in larval zebrafish sleep regulation**  
*I. Barlow, S. Zimmerman, A.F. Schier, J. Rihel (London, GB; Cambridge, US)*
- 15.48 235 **Connexin30 knock-out mice display less spontaneous locomotor activity, more sleep pressure and a reduced expression of metabolism-related genes**  
*X. Liu, V. Eligert, P.J. Magistretti, C. Giaume, J.-M. Petit (Paris, FR; Lausanne, Prilly, CH)*

**Sleep deprivation**

*Chairs:* C. Schmidt (Basel, CH)  
M. Chee (Singapore, SG)

- 14.00 236 **Sleep-loss related decrements in night-time vigilance performance: cerebral correlates and the impact of genetic vulnerability**  
*M. Maire, C.F. Reichert, V. Gabel, A.U. Viola, K. Scheffler, M. Klarhöfer, W. Strobel, C. Cajochen, C. Schmidt (Basel, CH)*
- 14.12 237 **Sleep restriction alters immune functions and metabolism – transcriptomic and metabolomic studies in humans**  
*V. Aho, H.M. Ollila, M. Ala-Korpela, T. Porkka-Heiskanen (Helsinki, Oulu, FI)*
- 14.24 238 **Sleep homeostasis in genetically modified loss-of-function and gain-of-function brain-derived neurotrophic factor (BDNF) mice**  
*H.-K.M. Wigren, J. Zant, A. Sanders, E. Castren, T. Porkka-Heiskanen (Helsinki, FI)*
- 14.36 239 **Sleep homeostasis in vitro**  
*S. Saberi-Moghadam, C. Mikhail, M. Tafti (Lausanne, CH)*
- 14.48 240 **Light irradiance influences sleep homeostasis through melanopsin-based phototransduction**  
*J. Hubbard, L. Calvel, H. Ikonen, L. Choteau, E. Ruppert, P. Bourgin (Strasbourg, FR)*
- 15.00 241 **Effects of COMT inhibitor tolcapone on mood and working memory during sleep deprivation**  
*A. Valomon, A. Borrello, S.C. Holst, M. Sommerauer, W. Berger, C.R. Baumann, H.-P. Landolt (Zurich, CH)*
- 15.12 242 **Sleep loss changes executive brain responses in the wake maintenance zone**  
*M. Jaspas, C. Meyer, V. Muto, A. Shaffii-LeBourdier, S.L. Chellappa, C. Kussée, G. Vandewalle, F. Collette, B. Middleton, S. Archer, D.-J. Dijk, P. Maquet (Liège, BE; Guilford, GB)*
- 15.24 243 **Regional differences in the impact of sleep deprivation on sleep EEG power in early to mid adolescence**  
*L. Tarokh, M.A. Carskadon, P. Achermann (Zurich, CH; Providence, US)*
- 15.36 244 **Neural correlates of sustained attention under sleep deprivation during a constant routine: circadian and homeostatic interaction**  
*V. Muto, M. Jaspas, C. Meyer, A. Shaffii LeBourdier, C. Kussée, S.L. Chellappa, G. Vandewalle, C. Degueldre, A. Luxen, F. Collette, C. Phillips, B. Middleton, S.N. Archer, D.-J. Dijk, P. Maquet (Liège, BE; Guildford, GB)*
- 15.48 245 **Effect of partial sleep deprivation on empathy for pain in an fMRI experiment**  
*S. Tamm, G. Nilsson, P. D'Onofrio, H. Thuné, J. Schwarz, P. Petrovic, H. Fischer, G. Kecklund, T. Åkerstedt, M. Lekander (Stockholm, SE)*
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Friday, 19 September 2014

**16.30 – 17.15      Keynote Lecture** **Lecture Hall A**

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*Chair:*      *L. Nobili (Milan, IT)*

**246      The sleep homeostat and local sleep; implications for sleep function**  
*J. Krueger (Spokane, US)*

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**17.15 – 18.45      Poster Sessions** **Poster Exhibition**  
**(Please refer to pages 73 - 88 for details)**

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Cell and Molecular Biology and Genetics	P795-P802
Neurobiology	P803-P817
Comparative and Evolutionary Studies	P818-P821
Behaviour	P822-P841
Sleep Deprivation 2	P842-P866
Sleep Disorders - Breathing 3	P867-P907
Sleep Disorders - Hypersomnia	P908-P948
Neurological Disorders and Sleep	P949-P988
Paediatrics	P989-P1035
Sleep and Gender	P1036-P1040

**18.30 – 19.30      ANSS President Meeting** **Lecture Hall C**

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Saturday, 20 September 2014

08.00 – 10.00 Symposium

Lecture Hall B

**Consciousness and its boundaries: lessons from sleep**

Chairs: L. Nobili (Milan, IT)  
E. van Someren (Amsterdam, NL)

- 247 **Functional brain networks changes upon falling asleep**  
*M. Czeisler (Munich, DE)*
- 248 **Cortical mechanism of loss of consciousness: the role of bi-stability**  
*M. Massimini (Milan, IT)*
- 249 **The boundaries of consciousness: lucid dreaming**  
*M. Czeisler (Munich, DE)*
- 250 **The boundaries of consciousness: NREM and REM parasomnias**  
*I. Arnulf (Paris, FR)*

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08.00 – 10.00 Symposium

Lecture Hall C

**Impact of sleep loss on mood: from animal models to humans**

Chairs: V. Fabre (Paris, FR)  
A. Steiger (Munich, DE)

- 251 **Impaired sleep patterns and homeostasis in animal models for anxio-depressive disorders**  
*M. Kimura (Munich, DE)*
- 252 **BDNF, sleep and depression**  
*J. Beck (Basel, CH)*
- 253 **Insomnia as a risk factor for depression**  
*D. Riemann, C. Nissen, K. Spiegelhalder, B. Feige, C. Baglioni (Freiburg, DE)*
- 254 **Genes involved in circadian rhythmicity and sleep homeostasis**  
*T. Paunio (Helsinki, FI)*
-

**What`s hot in sleep-disordered breathing**

Chairs: *W. McNicholas (Dublin, IE)*  
*L. Grote (Gothenburg, SE)*

- 08.00 255 **The accumulation of hypoxemia, a newly developed index, well predicts vascular endothelial dysfunction in patients with sleep disordered breathing**  
*H. Sawatari, A. Chishaki, M. Nishizaka, T. Tokunou, C. Yoshimura, T. Ohkusa, S.-I. Ando (Fukuoka, JP)*
- 08.12 256 **Sleep-disordered breathing in patients with acute ischemic stroke and transient ischemic attack: short-term evolution and effects on vascular/clinical outcome – the SAS CARE 1-study**  
*T. Horvath, S.R. Ott, C.A. Bernasconi, C. Cereda, M. Manconi, U.M. Fischer, J. Frangi, L. Nobili, S. Györik, P. Young, M. Gugger, L. Petrini, C. Roth, C.L. Bassetti (Bellinzona, Bern, Lugano, CH; Milan, IT; Münster, DE)*
- 08.24 257 **Recurrence of sleep apnea after withdrawal of upper airway stimulation – a randomized controlled study**  
*W. Randerath, J. Verbraecken (Solingen, DE)*
- 08.36 258 **Short term outcomes for obstructive sleep apnoea patients treated with hypoglossal nerve stimulation**  
*M. Barnes, A.L. Collins, K. Smart, C. Worsnop, F. O'Donoghue (Heidelberg, AU)*
- 08.48 259 **Effect of upper airway stimulation on improving sleep quality and quality of life in moderate to severe obstructive sleep apnoea**  
*J. Verbraecken, W. Randerath (Edegem, BE; Solingen, DE)*
- 09.00 260 **Poor brain bioenergetics during resting wakefulness are related to neurobehavioural deficits in severe obstructive sleep apnea**  
*A.L. D'Rozario, D.J. Bartlett, C.D. Rae, K.K. Wong, R.R. Grunstein (Sydney, AU)*
- 09.12 261 **Long term effects of compliance with positive airway pressure (PAP) therapy in patients with obesity hypoventilation syndrome (OHS)**  
*I. Bouloukaki, C. Mermigkis, S. Michelakis, V. Moniaki, N.M. Siafakas, S.E. Schiza (Heraklion, GR)*
- 09.24 262 **A sleep apnea related risk of vehicle accident is reduced by CPAP – Swedish traffic accident data acquisition (STRADA) registry**  
*M. Karimi, J. Hedner, H. Häbel, O. Nermann, L. Grote (Gothenburg, SE)*
- 09.36 263 **Effectiveness of two maintenance diets following a very low energy diet to reduce cardiometabolic risk in obese sleep apnea patients: a randomised controlled trial**  
*E.A. Cayan, N.S. Marshall, C.M. Hoyos, Y. Djavadkhani, B. Yee, K.K. Wong, R.R. Grunstein (Sydney, AU)*
- 09.48 264 **CPAP use improves sexual function in men with OSA and erectile dysfunction (ED): a randomised controlled study**  
*K. Melehan, C.M. Hoyos, G.S. Hamilton, K.K. Wong, B.J. Yee, R. Mclachlan, P.Y. Liu (Melbourne, Sydney, AU; Los Angeles, US)*

**From RBD to restless legs**

Chairs: R. Manni (Pavia, IT)  
R. Riha (Edinburgh, GB)

- 08.00 265 **Data-driven modeling of sleep EEG and EOG reveals stages indicative of pre-Parkinson and Parkinson's disease**  
*J.A. Christensen, M. Zoetmulder, R. Frandsen, L. Arvestson, S.R. Christensen, H.B. Sørensen, P. Jennum (Copenhagen, Glostrup, DK)*
- 08.12 266 **A distinct sleep pattern in the novel parasomnia associated with Iglon5 antibodies**  
*C. Gaig, A. Iranzo, I. Vilaseca, C. Embid, L. Sabater, J. Dalmau, F. Graus, J. Santamaria (Barcelona, ES)*
- 08.24 267 **Sensitivity and specificity of two screening questionnaires for REM sleep behaviour disorder and relationship with REM sleep without atonia in patients with Parkinson's disease**  
*M. Figorilli, R. Ferri, B. Pereira, P. Beudin, B. Débilly, P.P. Derost, A. Marques, M. Ulla, N. Vitello, M. Puligheddu, F. Durif, M.L. Fantini (Cagliari, Troina, IT; Clermont-Ferrand, FR)*
- 08.36 268 **Electroencephalographic and autonomic alterations in nightmare disorder during pre-and post-REM periods**  
*P. Simor, K. Horváth, J. Körmendi, P. Ujma, R. Bódizs (Budapest, HU; Oxford, GB)*
- 08.48 269 **24-Hr treatment of restless legs syndrome patients with an insufficient response to short-acting dopamine agonists: a comparative study using multiple immobilization tests**  
*D. Garcia-Borreguero, M. Sweeney, J.J. Granizo (Madrid, ES)*
- 09.00 270 **High values of nocturnal blood pressure coexist with high number of PLMS in patients with insomnia**  
*M. Sieminski, M. Partinen (Gdansk, PL; Helsinki, FI)*
- 09.12 271 **Genetic risk loci for restless legs syndrome are not related to multimorbidity**  
*A. Szentkirályi, H. Völzke, W. Hoffmann, C. Trenkwalder, K. Berger (Greiswald, Kassel, Münster, DE)*
- 09.24 272 **Prevalence of sleep bruxism in a general population sample: comparison of symptoms, masseter muscle activity and sound monitoring**  
*T. Gislason, S. Sigmundsdottir, B. Benediktsdottir, A.K. Olafsdottir, E.S.S. Arnardottir (Reykjavik, IS)*
- 09.36 273 **Mortality and social consequences of REM sleep behaviour disorder for patients and their partners. A controlled national study**  
*P. Jennum, M. Zoetmulder, R. Ibsen, J. Kjellberg (Copenhagen, Farum, Århus, DK)*

Saturday, 20 September 2014

**10.30 – 11.15**      **Keynote Lecture** Lecture Hall B

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*Chair:*            *W. McNicholas (Dublin, IE)*

- 274**      **From pressure to pill – is there a future for pharmacological treatment in sleep apnea?**  
*J. Hedner (Gothenburg, SE)*
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**11.30 – 13.30**      **Symposium** Lecture Hall B

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**When sleep attacks vigilance**

*Chairs:*            *R. Fronczek (Leiden, NL)*  
                         *A. Iranzo (Barcelona, ES)*

- 275**      **Measurements of vigilance impairment in patients with sleep disorders**  
*M. van Schie (Leiden, NL)*
- 276**      **Inter-individual differences in sustained attention resulting from sleep deprivation**  
*H.P.A. Van Dongen (Spokane, US)*
- 277**      **A pharmacogenetic perspective on vigilance regulation during sleep deprivation**  
*H.-P. Landolt (Zurich, CH)*
- 278**      **Non-visual effects of light on alertness and cognitive performance: measures and inter-individual differences**  
*C. Cajochen (Basel, CH)*
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**11.30 – 13.30**      **Symposium** Lecture Hall C

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**Brain histamine in narcolepsy: neurobiological and therapeutic implications**

*Chairs:*            *Y. Dauvilliers (Montpellier, FR)*  
                         *P.-H. Luppi (Lyon, FR)*

- 279**      **Increase of histaminergic tuberomammillary neurons in narcolepsy**  
*P.O. Valko, Y.V. Gavrillov, M. Yamamoto, H. Reddy, J. Haybaeck, E. Mignot, C.R. Baumann, T. Scammell (Zurich, CH; St. Petersburg, RU; Boston, Palo Alto, US; Graz, AT)*
- 280**      **Role of histaminergic neurons in the control of sleep and wakefulness**  
*J.-S. Lin (Lyon, FR)*
- 281**      **Pharmacology of histamine receptors: properties of inverse H3-receptor agonists**  
*J.-C. Schwartz (Paris, FR)*
- 282**      **Novel therapeutic approach in narcolepsy: clinical trials of an antagonist/inverse agonist of the histamine H3 receptor**  
*Y. Dauvilliers (Montpellier, FR)*
-

**Sleep analysis: from animals to humans**

Chairs: I. Tobler (Zurich, CH)  
T. de Boer (Leiden, NL)

- 11.30 283 **Central and peripheral metabolic changes induced by gamma-hydroxybutyrate**  
G. Luca, J. Vienne, A. Vaucher, S. Jimenez, M. Tafti (Lausanne, CH)
- 11.42 284 **Baclofen enhances sleep, improves functional recovery and promotes neuroplasticity after stroke in rats**  
A. Hodor, S. Palchykova, F. Baracchi, D. Noain, C.L. Bassetti (Bern, Zürich, CH)
- 11.54 285 **A role for group-I metabotropic glutamate receptors (mGluR1/5) in sleep-wake regulation**  
A. Sousek, P. Franken, H.-P. Landolt, M. Tafti (Lausanne, Zurich, CH)
- 12.06 286 **Sexual arousal, a role of histamine and orexin neurons**  
Y. Zhao, C. Anaclef, M. Perier, C. Buda, J.-S. Lin (Lyon, FR)
- 12.18 287 **Scoprism: a new algorithm for automatic sleep scoring in mice**  
G. Zoccoli, S. Bastianini, C. Berteotti, A. Gabrielli, F. Del Vecchio, R. Amici, C. Alexandre, T.E. Scammell, M. Gazea, M. Kimura, V. Lo Martire, A. Silvani (Bologna, IT; Stockholm, SE; Boston, US; Munich, DE)
- 12.30 288 **EEG slow-wave characteristics in sleep after daily torpor in Djungarian hamsters**  
V.V. Vyazovskiy, I. Tobler, T. Deboer (Oxford, GB; Zurich, CH; Leiden, NL)
- 12.42 289 **Characterisation of the development of sleep disturbances in the unpredictable chronic mild stress murine model of major depression**  
M. Nolle, G. Stenson, B. Martynhak, K. Wafford, D.-J. Dijk, R. Winsky-Sommerer (Guildford, Windlesham, GB)
- 12.54 290 **Slow wave activity and cerebral blood flow are anti-correlated during sleep**  
L. Tüshaus, A. Schläpfer, R. O'Gorman, A. Federspiel, R. Luechinger, P. Staempfli, D. Brandeis, T. Koenig, P. Achermann (Bern, Zurich, CH)
- 13.06 291 **Dynamics of human cortical ensembles are set by circadian system and sleep homeostasis**  
S.L. Chellappa, J.Q.M. Ly, G. Gaggioni, S. Papachilleos, C. Borsu, A. Brzozowski, S.N. Archer, M. Rosanova, S. Sarasso, D.-J. Dijk, P. Maquet, M. Massimini, C. Phillips, R.J. Moran, G. Vandewalle (Liège, BE; Guildford, GB; Milan, IT; Roanoke, US)

**Clinical and psychiatric aspects of sleep disorders**

Chairs: D. Kunz (Berlin, DE)  
R. Silvestri (Messina, IT)

- 11.30 296 **Chronotype in adult epilepsy patients: a questionnaire and DLMO determination based study**  
*R. Manni, R. Cremascoli, R. De Icco, M. Terzaghi (Pavia, IT)*
- 11.42 292 **Sleep and psychiatric disorders: a meta-analysis of the last 20 years of research**  
*C. Baglioni, S. Nanovska, W. Regen, K. Spiegelhalder, B. Feige, C. Nissen, C.F. Reynolds, D. Riemann (Freiburg, DE; Pittsburgh, US)*
- 11.54 293 **Implementation of dynamic lighting in a nursing home: impact on agitation**  
*A. Wahnschaffe, C. Nowozin, S. Haedel, H. Rudolph, A. Rath, M. Muench, D. Kunz (Arnsberg, Berlin, DE)*
- 12.06 294 **Sleep-disordered breathing in the acute phase of transient ischemic attack and minor stroke**  
*F. Pizza, P. Proserpio, G.L. Gigli, L. Fratticci, A. Lanza, M. Puligheddu, F. Cirignotta, M. Terzaghi, G. Della Marca, M. Melis, G. Parati, C. Lombardi, R. Rocchi, F. Provini, E. Bonanni, F. Placidi, A. Ciccone, L. Nobili (Bologna, Cagliari, Mantua, Milan, Pavia, Pisa, Rome, Siena, Udine, IT)*
- 12:18 295 **Sleep and gastrointestinal cancer risk in the MCC-Spain case-control study**  
*K. Papantoniou, E. Guinó, G. Castaño-Vinyals, N. Aragonés, V. Martin Sanchez, I. Gomez Acebo, J.J. Jiménez Moleón, R. Peiro, E. Ardanaz, J. Alguacil, J.M. Altzibar, A. Tardón, M.-D. Chirlaque, M. Kogevinas, V. Moreno (Barcelona, Barcleona, Gipuzkoa, Granada, Huelva, León, Madrid, Murcia, Oviedo, Pamplona, Santander, Valencia, ES)*
- 12.30 297 **Insomnia and nightmares and associations with PTSD and depressive symptoms among the survivors from the Norwegian terror 22/7 2011 attack on Utøya**  
*J. Gronli, O.T. Ousdal, A.M.D. Melinder, S. Pallesen, T. Endestad, A.M. Milde (Bergen, Oslo, NO)*
- 12.42 298 **Blocking blue light during mania; markedly increased regularity of sleep and rapid improvement of symptoms: case reports from an ongoing randomized controlled trial**  
*T.E.G. Henriksen, J. Grønli, O.B. Fasmer, S. Skrede, A. Lund (Bergen, Valen, NO)*
- 12.54 299 **Sleep and circadian rhythms in the bipolar phenotype: a comparison of high-risk individuals defined by hypomania or a family history of affective disorders**  
*K. Wulff, P. Rock, N.F. Zaki, R. D'Sa, Y. Winkler, R.G. Foster, G.M. Goodwin (Cambridge, Oxford, GB; Mansoura, EG)*
- 13.06 300 **Association of sleep disorders with psychosocial factors in female population aged 25-64 years in Russia: MONICA-psychosocial epidemiological study**  
*V. Gafarov, D. Panov, E. Gromova, I. Gagulin, A. Gafarova (Novosibirsk, RU)*
- 13.18 301 **Sleep quality in hospitalized medical patients: influence of light, noise, and switch to daylight saving time**  
*M. Bano, F. Chiaromanni, M. Corrias, M. Turco, M. De Rui, A. Gatta, R. Costa, S. Montagnese (Padova, IT)*

Saturday, 20 September 2014

13.30 – 13.45 Closing ceremony

Lecture Hall B

*Chairs:* P. Peigneux (Brussels, BE)  
E. Sõõru (Tallinn, EE)

- 13.30 302 **Farewell address by the president of the ESRS, Philippe Peigneux including announcements of ESRS-Weinmann Young Investigators Mobility Award 2014**  
*P. Peigneux (Brussels, BE)*
- 13.35 303 **Farewell address by president of local sleep society**  
*E. Sõõru (Tallinn, EE)*
- 13.40 304 **Outlook to ESRS 2016 by chair of local organising committee Bologna**  
*R. Amici (Bologna, IT)*



## Poster Presentations

Wednesday, 17 September 2014

**18.30 – 20.00 Pharmacology and biochemistry** Poster Exhibition

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- P305 Side-effects of benzodiazepines in psychiatric outpatients**  
*M.M. Dumitru (Roman, RO)*
- P306 Off-label use of low-dose quetiapine and mirtazapine for insomnia is growing**  
*M. Lancel, J. Kamphuis (Assen, NL)*
- P307 The longer term effects of caffeine withdrawal**  
*L.C. Lack, K. Johansson (Adelaide, AU)*
- P308 Assessment of tasimelteon efficacy in totally blind individuals with non-24-hour sleep-wake disorder in the set study**  
*S. Lockley, M. Dressman, C. Xiao, R. Torres, C. Lavedan, L. Licamele, M. Polymeropoulos (Washington, US)*
- P309 Assessment of maintenance of effect of tasimelteon in totally blind individuals with non-24-hour sleep-wake disorder – RESET Study**  
*S. Lockley, M. Dressman, X. Changfu, L. Licamele, M. Polymeropoulos (Washington, US)*

**18.30 – 20.00 Physiology** Poster Exhibition

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- P310 First-night effect on heart rate variability and salivary cortisol secretion**  
*M. Takahara, M. Hasegawa-Ohira, K. Ito, S. Nomura (Fukushima, Hiratsuka, Nagaoka, Otsu, JP)*
- P311 Electroacupuncture of Feng-Chi acupoints on epilepsy-induced sleep alterations**  
*P.-L. Yi, F.-C. Chang (Tainan, Taipei, TW)*
- P312 Auditory stimulation evokes slow oscillations and spindle activity**  
*J. Virkkala, M. Leminen, E. Saure, T. Paajanen, M. Huutilainen, T. Paunio (Helsinki, FI)*
- P313 The ABCB-1 genotype influences human sleep**  
*A. Steiger, M. Kluge, B. Wollweber, A. Yassouridis, M. Uhr (Munich, DE)*
- P314 Spatio-temporal dynamics of micro-arousals in human: an intra-cerebral study**  
*L. Peter-Derex, M. Magnin, H. Bastuji (Lyon, Pierre-Benite, FR)*
- P315 The consequences of gestational intermittent hypoxia on new born mice**  
*J. Truchot, T. Bourgeois, M. Ringot, B. Matrot, J. Gallego, M.P. d'Ortho (Paris, FR)*
- P316 Enhancement of nightlong salivary melatonin secretion by a feeble light exposure during sleep**  
*S. Nomura, Y. Kato (Nagaoka, JP)*
- P318 Cortical downstates and breakdown of causality within sleeping brain: an intracerebral study in humans**  
*A. Pigorini, S. Sarasso, P. Proserpio, C. Szymanski, G. Arnulfo, S. Casarotto, M. Rosanova, M. Mariotti, G. Lo Russo, M.J. Palva, L. Nobili, M. Massimini (Genova, Milano, IT; Berlin, DE; Helsinki, FI)*
- P319 Theta wave bursts during rapid-eye-movement sleep in histamine-deficient mice**  
*G. Zoccoli, S. Bastianini, C. Berteotti, J.-S. Lin, V. Lo Martire, H. Ohtsu, A. Silvani (Bologna, IT; Stockholm, SE; Lyon, FR; Sendai, JP)*
- P320 Time structure of physiological hind-limb movements during sleep in rats and mice: toward rodent models of periodic limb movements (PLM) and restless legs syndrome (RLS)**  
*A. Silvani, F. Baracchi, C. Bassetti, S. Bastianini, C. Berteotti, V. Lo Martire, A. Salvadè, G. Zoccoli, M. Manconi (Bologna, IT; Bern, Lugano, CH; Stockholm, SE)*

- P321 Cholinergic basal forebrain structures are not essential for the mediation of the arousing action of glutamate**  
*Z. Lelkes, T. Porkka-Heiskanen (Szeged, HU; Helsinki, FI)*
- P322 The circadian effect of light stimulation on rats' body temperature and heart rate**  
*J. Gronli, J. Mrdalj, T.E.G. Henriksen,, A. Mattson, A.M. Kinn Roed, S. Pallesen, S. Skrede (Bergen, NO)*
- P323 Cardiac autonomic modulation is preserved during sleep in patients with spinal cord injury**  
*E. Tobaldini, P. Proserpio, K. Sambusida, A. Lanza, T. Redaelli, P. Frigerio, L. Fratticci, V.K. Somers, L. Nobili, N. Montano (Milan, IT; Rochester, US)*
- P324 Dawn simulation light: a potential cardiac events protector**  
*A.U. Viola, V. Gabel, V. Hommes, N. Montano, C. Cajochen (Basel, CH; Drachten, NL; Milan, IT)*
- P325 Sleep spindles do not inhibit behavioural and cortical responses to nociceptive stimuli: a surface and intracerebral electrophysiological study**  
*L. Claude, G. Prados, B. De Blay, C. Perchet, L. Garcia-Larrea, S. Mazza, H. Bastuji (Lyon, FR)*
- P326 Exercise is associated with changes in sleep architecture during stress**  
*H.M. Petersen, G. Kecklund, P. D'Onofrio, T. Åkerstedt (Stockholm, SE)*
- P327 EEG biomarker for pain sensitivity**  
*J.-S. Lee, J.-W. Kim, H.-B. Shin (Seoul, Yangsan, KR; Sydney, AU)*
- P328 The structure of the sleep-wakefulness cycle and memory processing in “depressive” and “non-depressive” rats**  
*M. Gogichadze, M. Nemsadze, M. Datunashvili, T. Basishvili, L. Shanshiashvili, D. Mikeladze, N. Oniani (Tbilisi, GE)*
- P329 Modulation of spontaneous cortical synchronization by transcranial alternating current stimulation: effects on resting wake and sleep**  
*A. D'Atri, E. De Simoni, M. Gorgoni, M. Ferrara, F. Ferlazzo, P.M. Rossini, L. De Gennaro (L'Aquila, Rome, IT)*
- P330 Waking-promoting effects of orexin injection in the Raphe Pallidus in the rat**  
*F. Del Vecchio, R. Amici, M. Cerri, A. Di Cristoforo, T. Hitrec, M. Luppi, E. Perez, G. Zamboni (Bologna, IT)*
- P331 Diet-induced obesity rats are hypertensive across the different wake-sleep states**  
*F. Del Vecchio, A. Al Tzachmani, R. Amici, M. Cerri, A. Di Cristoforo, T. Hitrec, M. Luppi, E. Perez, G. Zamboni (Bologna, IT)*
- P332 The interaction of thermoregulatory and sleep systems during sleep onset: a simultaneous cerebral and muscular hemodynamic measurement with near-infrared spectroscopy**  
*Z. Zhang, M. Laures, G. Hügli, M. Qi, R. Khatami (Barmelweid, CH)*
- P333 Genetic inactivation of glutamatergic neurons within the pontine sublaterodorsal tegmental nucleus induces REM sleep behaviour disorder (RBD) in rats**  
*S. Valencia Garcia, P.A. Libourel, Y. Chérasse, M. Lazarus, P.H. Luppi, P. Fort (Lyon, FR; Tsukuba, JP)*
- P334 Modifications of sleep structure induced by cold acclimation in rats**  
*O. Shylo, O. Ventskovska, G. Babychuk (Kharkov, UA; Helsinki, FI)*
- P335 Targeting inactivation of Hcrt receptors in dopaminergic and noradrenergic neurons alters the EEG spectral profile during wakefulness**  
*S. Li, C. Schrick, P. Franken, M. Tafti, A. Vassalli (Lausanne, CH)*
- P336 Successful physical exercise-induced weight loss is modulated by habitual sleep duration in the elderly: results of a pilot study**  
*M. Goerke, U. Sobieray, A. Becke, S. Cohrs, N.G. Müller (Magdeburg, Rostock, DE)*

- P337 Inter-individual differences in the effects of night-time noise exposure on sleep and cognitive performance during daytime**  
*I. Clark, M. Brink, G. Tinguely, M. Rössli, N. Probst-Hensch, J.-M. Wunderli, R. Pieren, C. Cajochen (Basel, Berne, Dübendorf, CH)*
- P338 Slow wave sleep in the chronically fatigued: spectral power distribution patterns in chronic fatigue syndrome and primary insomnia**  
*O. Mairesse, D. Neu, P. Verbanck, O. Le Bon (Brussels, BE)*
- P339 Olfaction and sleep – a rodent EEG experiment**  
*E. Palomäki (Helsinki, FI)*
- P340 Thalamic and neocortical differences in the relationship between delta and sigma time courses of human sleep EEG**  
*S. Sarasso, A. Pigorini, P. Proserpio, I. Sartori, M. Massimini, L. Nobili (Milan, IT)*
- P341 Study of the dynamic information between heart and brain networks during nocturnal sleep**  
*F. Jurysta, L. Faes, G. Nollo, G. Loas, D. Marinazzo, P. Linkowski (Brussels, Gent, BE; Trento, IT)*
- P342 Impaired slow wave sleep downscaling in patients with hypersarhythmia**  
*S. Fattinger, B. Schmitt, B. Bülsterli Heinzle, H. Critelli, O. Jenni, R. Huber (Zurich, CH)*
- P343 The effect of hypnotics on auditory arousal thresholds in older adults**  
*C.P. Lykiardopoulos, D. Bruck, M. Ball (Melbourne, AU)*
- P344 Comparison of the levels of drowsiness obtained via a new photooculography-based drowsiness scale and via a simple variation of the Karolinska Drowsiness Scale (KDS)**  
*C. François, J. Marchat, P. Latour, J. Wertz, R. Poirrier, J. Verly (Liège, BE)*
- P345 Extreme violation of sleep hygiene: the effect of sleeping against the biological clock during a multiday relay event**  
*A. van Maanen, B. Roest, M. Moen, F. Oort, P. Vergouwen, I. Paul, P. Groenenboom, M. Smits (Amsterdam, Arnhem, Ede, NL)*

**18.30 – 20.00 Learning, memory and cognition 1**

Poster Exhibition

- P346 Daytime sleepiness levels are associated with academic performance and psychological health in UK adolescents**  
*A. Bakhshandeh, T. Arora, S. Taheri (Doha, QA)*
- P347 A new face of sleep: the impact of post-learning sleep on recognition memory for face-name associations**  
*L.F. Maurer, K.J. Elliott, J.M. Ronda, K.-M. Zitting, K.E. Ward, C.A. Czeisler, J.F. Duffy (Boston, US)*
- P348 Sleep's effect on motor skills: strong offline gains or a methodological bias?**  
*S.I.R. Pereira, R.A. Vincenzi, F. Beijamini, F.M. Louzada (Curitiba, BR)*
- P349 Facial emotion recognition, neurobehavioral performance, and sleep associated with care at the time of death among shift-working caregivers**  
*T. Kubo, F. Togo, K. Tsuno, M. Takahashi, Y. Yanagiba, T. Ichimizu, E. Sato, S. Kikuchi, T. Mitani, T. Komatsu (Ibaraki, Kawasaki, Tokyo, Wakayama, JP)*
- P350 The effect of dim light at night on brain activity during working memory task**  
*H.-K. Yoon, H.-J. Lee, S.-G. Kang, L. Kim, C.-H. Cho, E.-I. Lee (Incheon, Seoul, KR)*
- P351 Spindles affection by use of negative emotional stimulations**  
*A. Hekmatmanesh, M. Mikaili, K. Sadeghniaat-Haghighi, S. Seifpour, A. Khorrami (Tehran, IR)*
- P352 Sleep does not cause false memories on a story-based test of suggestibility**  
*E. van Rijn, H. McMurtrie, N. Carter, M. Blagrove (Swansea, GB)*

- P353 Emotion regulation and maladaptive beliefs in relation to morningness/eveningness**  
*B.I. Voinescu, A. Szentagotai (Cluj-Napoca, RO)*
- P354 Temperament moderates the association between sleep duration and cognitive performance in children**  
*M.C.M. Vermeulen, R.G. Astill, J.S. Benjamins, H. Swaab, E.J.W. van Someren, K.B. van der Heijden (Amsterdam, Leiden, NL)*
- P355 Integration of explicit and implicit memory systems evolves over sleep**  
*M. Schönauer, F. Pargent, J. Wörsching, M. Czisch, S. Gais (Munich, Planegg-Martinsried, Tübingen, DE)*
- P356 Sleep accelerates learning-related changes in brain activity**  
*L. Himmer, M. Schönauer, D. Heib, M. Schabus, S. Gais (Munich, DE; Salzburg, AT)*
- P357 Gender difference in sleep structure and cognitive function in the elderly**  
*J. Jeong, C.S. Lee, T. Kim, S.Y. Youn, I.-Y. Yoon (Gyeonggi-do, KR)*
- P358 Sleep deprivation affects working memory in low but not in high complexity for the N-Back test**  
*G. Teran, A. Ruiz, R. Mercadillo, R. Gonzalez, R. Tarrago, J. Velazquez (México, MX)*
- P359 Cueing emotional memories during slow-wave sleep changes subjective arousal ratings**  
*M.-E. Tsimpanouli, R. Elliott, I. Anderson, P.A. Lewis (Manchester, GB)*
- P360 Sleep and recognition memory: comparing face and scene as emotional stimuli**  
*N. Kashyap (Guwahati, IN)*
- P361 Does bright light interfere with fear learning?**  
*C. Nowozin, A. Wahnschaffe, D. Fay, O. Pollatos, D. Kunz (Berlin, Potsdam, DE)*
- P362 Sound asleep: processing and retention of slow oscillation phase-targeted stimuli**  
*L. Talamini, I. Korjoukov, M. de Boer, R. Cox (Amsterdam, NL; London, GB)*
- P363 Impaired consolidation of emotional memories during sleep in older adults**  
*C. Harand, F. Doidy, F. Bertran, F. Guénolé, P. Clochon, B. Desgranges, F. Eustache, G. Rauchs (Caen, FR)*
- P364 Neurobehavioral performance during an intensive spatial navigation task and local use-dependent changes in the wake electroencephalogram**  
*A. Quercia, F. Zappasodi, G. Committeri, G. Tamburro, V. Pizzella, M. Valentini, M. Ferrara (Chieti, L'Aquila, IT)*

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**18.30 – 20.00 Instrumentation and methodology (Basic Sleep Science) Poster Exhibition**

- P365 Online wireless sleep analysis for auditory sleep stimulation**  
*J. Virkkala, R. Velin, M. Leminen, E. Saure, M. Huotilainen, T. Paunio (Helsinki, FI)*
- P366 Automatic segmentation of REM sleep into three substages**  
*M. Magrini, A. Virgillito, U. Barcaro, L. Bonfiglio, G. Pieri, M.C. Carboncini (Pisa, IT)*
- P367 Translation, cross-cultural adaptation and psychometric properties of the Jenkins Sleep Scale in a sample of Portuguese shift workers**  
*C. Reis, C. Mestre, M. Tecedreiro, T. Paiva (Lisbon, PT)*
- P368 Automated sleep staging classification using a non-contact biomotion sensor**  
*A. Zaffaroni, L. Gahan, L. Collins, E. O'Hare, C. Heneghan, C. Garcia, I. Fietze, T. Penzel (Dublin, IE; San Diego, US; Berlin, DE)*
- P369 Development of a user-friendly platform for real-time automated scoring and analysis of polysomnography data**  
*G. Allocca, I.T. Hosken, D. Martelli, D.R. Freestone, L.A. Johnston, A.L. Gundlach (Parkville, AU)*

- P370 Correlation of EEG slowing to cardiopulmonary coupling during sleep in chronic opioid users**  
*J.W. Kim, R. Grunstein, D. Wang (Glebe, AU)*
- P371 A novel sleep spindle detection method to account for intra- and inter-individual differences in spindle characteristics**  
*L.B. Ray, S. Sockeel, A. Bore, J. Carrier, J. Doyon, S.M. Fogel (London, Montreal, CA)*
- P372 Inter- and intraindividual variability of the pupillary unrest index (PUI)**  
*T. Eggert, H. Dorn, C. Sauter, A. Peter, M.-L. Hansen, H. Danker-Hopfe (Berlin, DE)*
- P373 Quantum neural networks for predicting lane deviations from steering wheel angle**  
*A.A.V. Holmström, P.M. Forsman, E. Haeggström (Helsinki, FI)*
- P374 Effect of CPAP in erythrocytosis and sleep apnea hypopnea syndrome**  
*C. Jurkojc, E. Mañas, P. Arrieta, C. Gotera, D. Barrios, P. Lazo, R. Mirambeaux, A. Pedrera (Madrid, ES)*
- P375 Automatic biorhythms from actigraphy data**  
*M. Gonzalez, J.Q.M. Ly, G. Gaggioni, C. Meyer, V. Muto, M. Jaspar, G. Vandewalle, C. Phillips, P. Maquet, S.L. Chellappa (Liège, BE)*
- P376 Nightmare's effects on daily functioning – the nightmare effects questionnaire (NEQ)**  
*A.A. Schlarb, M. Zschoche, M. Schredl (Bielefeld, Mannheim, DE)*
- P377 Confirmatory factor analysis of sleep model's questionnaires**  
*T. Rebelo-Pinto, J.C. Pinto, H. Rebelo-Pinto, F. Brito, T. Paiva (Lisbon, PT)*
- P378 Pilot study: blood pressure response to withdrawal of positive airway pressure treatment in patients with hypertension and obstructive sleep apnea**  
*K.A. Olafsdottir, S. Gudmundsdottir, A. Valgardsdottir, T. Gislason, B. Benediktsdottir, E.S. Arnardottir (Reykjavik, IS)*
- P379 A critical analysis of electronically equipped beds used in sleep medicine**  
*R. Kala (Tallinn, EE)*
- P380 Beneficial effect of morning light after one night of sleep deprivation**  
*A. Viola, J. Hubbard, H. Comtet, I. Hubbard, E. Ruppert, P. Bourgin (Strasbourg, FR)*

**18.30 – 20.00 Sleep disorders – Breathing 1**

Poster Exhibition

- P381 Polysomnographic evaluation of sleep disordered breathing after lung transplantation**  
*D. Testelmans, C. Belge, R. Vos, J. Yserbyt, L. Dupont, G. Verleden, B. Buyse (Leuven, BE)*
- P382 Continuous positive airway pressure (CPAP) impact on abdominal fat redistribution in obstructive sleep apnea patients**  
*R. Català, R. Ferré, A. Cabré, S. Sangenís, D. Ibarretxe, S. Hernández-Flix, L. Masana (Reus, ES)*
- P383 Influence of nasal mask choice for continuous positive airway pressure (CPAP) therapy in patients with obstructive sleep apnoea (OSA)**  
*L. Morin, P.-C. Neuzeret (Saint-Priest Cedex, FR)*
- P384 Hyoid bone in obstructive sleep apnea syndrome patients according the craniofacial growth**  
*R. Ecija, J. Jareno, A. Coca, I. Sierra, J. Aranda, F. Villegas, S. Campos, M. Castro, A. Rodero, C. Gutierrez (Madrid, ES)*
- P385 In moderate to severe obstructive sleep apnea, sleepy patients do have higher apnea-hypopnea index than nonsleepy patients**  
*A. Mineiro, P. Cravo, D. Pombo, C. Santos, D. Virella, M. Alves, M.J.M. Gomes, J. Cardoso (Lisbon, PT)*

- P386 Relationship between smoking and obstructive sleep apnoea and hypopnoea syndrome**  
Z. Quan, J. Liu, Y. Xie, Z. Lei, B. Liang, X. Mo (Nanning, CN)
- P387 Continuous positive airway pressure therapy reduces mortality in Chinese patients with obstructive sleep apnea**  
X. Yuan, J. Fang, L. Wang, X. Li, J. Wang, L. Yao, X. Zhan, H. Wu, J. Pinto, Y. Wei (Beijing, CN; Chicago, US)
- P388 Uncontrolled hypertension and obstructive sleep apnoea hypopnoea syndrome among adult snorers in South China**  
J. Liu, F. Pan, G. Hu, Y. Wu, X. Mo, Y. Xie, D. Liang, Z. Lei, B. Liang (Guangzhou, Nanning, CN)
- P389 Rates of CPAP mask initial acceptance and switching**  
P. Vitikainen, P. Maasilta, A. Bachour (Helsinki, FI)
- P390 Influence of sleep apnea on type of myocardial infarction. The Sleep Apnea in Post Acute Myocardial Infarction Patients (SAPAMI) study**  
O. Ludka, R. Stepanova, L. Galkova, B. Fischerova, T. Kara, J. Spinar (Brno, CZ)
- P391 Relationship between neck circumference and polysomnography parameters in obstructive sleep apnea syndrome**  
J.C. García Reyes, A. Rodríguez-Gonzalez, J.E. Solís, A. Labra, F. Sánchez-Narváez, R. Haro-Valencia, V. Valdés-Pineda, A. Castellanos (México, MX)
- P392 Correlation between supine and sitting position, in the physical and endoscopic evaluation of the airway in patients with obstructive sleep apnea suspicion**  
J.C. García Reyes, A. Labra, R. Haro-Valencia, F. Sánchez-Narváez, V. Valdés-Pineda, A. Rodríguez-Gonzalez, A. Castellanos (México, MX)
- P393 Body Mass Index as a prognosis factor of collapse in the upper airway in adults with obstructive sleep apnea syndrome**  
A. Rodríguez, A. Labra, J.-C. García-Reyes, V. Valdez-Pineda, R. Haro-Valencia, F. Sánchez-Narváez, A.-D. Huerta-Delgado, J.-E. Solís-Rodríguez (México, MX)
- P394 Automated scoring system for the diagnosis of obstructive sleep apnea in level 2 portable monitoring device Embletta X-100**  
H.J. Kim (Suwon, KR)
- P396 APAP-adherence depends on device technology**  
H. Hein, T. Netzel, M. Schnell, Y. Hein (Hamburg, Reinbek, DE)
- P397 Continuous positive airway pressure treatment reduces mortality in elderly patients with moderate to severe sleep apnea : a cohort report**  
O. Qiong (Guangzhou, CN)
- P398 Prevalence of excessive sleepiness and insomnia in patients with obstructive sleep apnea syndrome**  
I.W. Saxvig, S. Lehmann, S. Gulati, H. Aurlien, B. Bjorvatn (Bergen, NO)
- P399 Effects of a very low energy diet on cardiometabolic markers in mechanically treated and untreated obese obstructive sleep apnea patients: a stratified open-label cohort study**  
E.A. Cayanan, N.S. Marshall, C.M. Hoyos, Y. Djavadkhani, B. Yee, K.K. Wong, R.R. Grunstein (Sydney, AU)
- P400 Randomised controlled trial of mandibular advancement devices for obstructive sleep apnoea (TOMADO): one year follow-up**  
T.G. Quinnell, A.L. Clutterbuck-James, M. Bennett, J. Jordan, R. Chadwick, M.G. Davies, N. Oscroft, I.E. Smith, C.L. East, M.A. Pittman, M. Cameron, M.J. Morrell, M. Glover, J.A. Fox-Rushby, L.D. Sharples (Cambridge, Leeds, London, Uxbridge, GB)
- P401 On the way to a personalised self-management program in continuous positive airway pressure therapy**  
M.A. Michalzyk, T. Künne, J. Kuhl (Osnabrück, DE)

- P402 Obstructive sleep apnea and erectile dysfunction: new possibilities of sleep medicine**  
*O. Berdina, I. Madaeva, L. Kolesnikova, V. Dolgikh (Irkutsk, RU)*
- P403 Contribution of mandibular morphology to residual obstructive sleep apnea after adenotonsillectomy in children: a preliminary study**  
*K. Maeda, S. Tsuiki, S. Nakata, K. Suzuki, E. Itoh, Y. Inoue (Aichi, Tokyo, JP)*
- P404 International scientific communications in the field of the diagnosis of obstructive sleep apnea**  
*M.P. Milkov, L. Matev, P. Nedev (Varna, BG)*
- P405 Institutionalization of research on the applications of oral appliances in the treatment of obstructive sleep apnea**  
*M. Milkov, L. Matev, P. Nedev (Varna, BG)*
- P406 Two new parameters: obstruction length and height in predicting outcome of upper airway surgery in obstructive sleep apnea patients**  
*J. Ye, P. Zhang, C. Pan, N. Sun, J. Li, D. Kang (Beijing, CN)*
- P407 Achyrocline satureioides (LAM) D.C. would improve sleep quality and oxidative stress in patients with obstructive sleep apnea syndrome: a pilot study**  
*M. Pedemonte, F. Rivera, M. Díaz, M. Testa, E. Behar, A. Goliger, F. Dajas, R. Velluti (Montevideo, Punta del Este, UY)*
- P408 Comparison of portable monitoring devices and polysomnography for the diagnosis of obstructive sleep apnea syndrome**  
*T. Yano, Y. Aoshima, K. Tanaka, T. Ogasawara, N. Kasamatsu (Hamamatsu, JP)*
- P409 Factors affecting the intention and decision to be treated for obstructive sleep apnea disorder**  
*O. Tzischinsky, S. Shahrabani, G. Givati, Y. Dagan (Haifa, Ramat Gan, Yezreel Valley, IL)*
- P410 Contributing factors to obesity as predictors for obstructive sleep apnea syndrome**  
*S. Mihaicuta, I.A. Toth, S. Paralescu, S. Frent, C. Ardelean (Timisoara, RO)*
- P411 Does sleep disordered breathing in women promote heart failure? A population based cohort study**  
*M. Ljunggren, L. Byberg, J. Theorell-Haglöw, B. Lindahl, K. Michaëlsson, E. Lindberg (Uppsala, SE)*
- P412 Quantitative analysis of mandible movements during obstructive sleep apnoeas**  
*R. Poirrier, B. Chakar, S. Raskin, A. Bruwier, Y. Gilon, M. Limme, A.-L. Poirrier (Liège, BE)*
- P413 Reduction of mandibular movements associated to obstructive sleep apnea after adenotonsillectomy in children**  
*J.B. Martinot, V. Cuthbert, F. Senny, S. Denison, H. Guénard, J.L. Pepin (Liege, Namur, BE; Bordeaux, Grenoble, FR)*
- P414 The impact of weight reduction in the prevention of the progression of obstructive sleep apnea – explanatory analysis of a 4-year observational follow-up trial**  
*H. Tuomilehto, J. Seppä (Kuopio, FI)*
- P415 Impairments of frontal lobe-related cognitive functions in sleep related breathing disorder in the elderly**  
*C.S. Lee, T. Kim, S.D. Lee, S.-H. Kang, K.W. Kim, I.-Y. Yoon (Seongnam-si, KR)*
- P416 Sleep-disordered breathing after acute ischemic stroke and transient ischemic attack: long-term clinical/vascular outcome and effect of a randomized CPAP treatment – the SAS-CARE 2-study**  
*T. Horvath, S.R. Ott, C.A. Bernasconi, C. Cereda, M. Manconi, U.M. Fischer, S.A. Schroth, L. Nobili, P. Young, J. Frangi, S. Györik, M. Gugger, L. Petrini, C. Roth, C.L. Bassetti (Bellinzona, Bern, Lugano, CH; Milan, IT; Münster, DE)*

- P417 High risk sleep apnea on the Berlin Questionnaire is associated with hypertension in South Africans of Black Ancestry**  
*K. Scheuermaier, R. Naran, A. Woodiwiss, G. Norton (Johannesburg, ZA)*
- P418 Peculiarities of arterial stiffness in middle-aged male patients with arterial hypertension, obesity and severe sleep apnea**  
*E. Elfimova, A. Aksenova, P. Galitsin, A. Zairova, A. Rvacheva, K. Zykov, A. Litvin, A. Rogoza, I. Chazova (Moscow, RU)*
- P419 Impaired autoregulation with increasing apnea-hypopnea index – a case-control study**  
*L. Ponsaing, U. Lindberg, E. Rostrup, H.K. Iversen, K. Krabbe, H.B.W. Larsson, P. Jennum (Glostrup, DK)*
- P420 The prevalence of high risk of obstructive sleep apnea among Iranian commercial drivers**  
*E. Nazemi, K. Sadegh Niyat, O. Aminian (Tehran, IR)*
- P421 Polysomnographic predictors of mortality in stroke patients**  
*L.B. Ponsaing, H.K. Iversen, P. Jennum (Glostrup, DK)*
- P422 Nocturnal blood pressure fluctuations – a risk factor for heart attack and stroke during sleep**  
*G. Kuchler, H. Hein, I. Fietze (Berlin, Randersacker, Reinbek, DE)*

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**18.30 – 20.00 Sleep disorders – Circadian rhythms** Poster Exhibition

- P423 Pattern of highway crash accidents in Tehran, Iran: it relates with circadian rhythm of sleepiness**  
*K. Sadeghniaat-Haghighi, M. Moradina, O. Aminian, Z. Yazdi, A. Esmaili (Qazvin, Tehran, IR)*
- P424 Clock pathway deregulation and clonogenic properties of human skin & hair follicle keratinocytes**  
*N. Deshayes, G. Genty, M. Paris (Aulnay-sous-Bois, FR)*
- P425 Sleep patterns and predictors of daytime sleepiness in Korean adolescents students**  
*S.-H. Kang, I.-Y. Yoon, S.D. Lee, C.S. Lee, T. Kim (Gyeonggi-do, Seoul, KR)*
- P426 Sleepiness and behavioural circadian rhythm period lengths of delayed sleep phase disorder patients and controls**  
*G. Micic, N. Lovato, M. Gradisar, S.A. Ferguson, H.J. Burgess, L.C. Lack (Adelaide, AU; Chicago, US)*
- P427 Nocturnal melatonin profiles in Delayed Sleep Phase Disorder compared with normal sleepers**  
*G. Micic, N. Lovato, M. Gradisar, S.A. Ferguson, H.J. Burgess, D.J. Kennaway, L.C. Lack (Adelaide, AU; Chicago, US)*
- P428 Predictors of core temperature and melatonin circadian phase timings**  
*G. Micic, N. Lovato, M. Gradisar, S.A. Ferguson, H.J. Burgess, L.C. Lack (Adelaide, AU; Chicago, US)*
- P429 Light therapy in a sighted man with a non-24-hour sleep-wake disorder (N24SWD): a case study**  
*C. Garbazza, V. Bromundt, U. Lang, D.P. Brunner, C. Cajochen (Basel, Zollikon, CH)*
- P430 Altered light sensitivity in a mouse model for Smith-Magenis syndrome**  
*S. Diessler, P. Franken (Lausanne, CH)*
- P431 The impact of bilateral anophthalmia on sleep and mood: a case series study**  
*I. Alexander, R. Morjaria, O. Kousha, R. Purbrick, H. Bridge, K. Watkins, B. Leatherbarrow, G. Black, R. Foster, S. Downes, K. Wulff (Manchester, Oxford, GB)*



- P432** **Characteristics of the selective and unique binding profile of tasimelteon, a circadian regulator of the master body clock**  
*C. Lavedan, M. Forsberg (Washington, US)*
- P433** **A multicenter open-label safety study of tasimelteon for the treatment of non-24-hour sleep-wake disorder in blind individuals with no light perception**  
*M.A. Quera-Salva, M. Dressman, C. Perry, M.-F. Vecchierini, P. Ogrizek, C. Lavedan, D. Léger (Garches, Paris, FR; Washington, US)*
- P434** **Nocturnal shift work is associated with reduced stage N3 and REM sleep in adults**  
*F.S. Ruiz, I.Z. Zimberg, M.V. Santos, U.A. Andrade, L.R. Bittencourt, S. Tufik, M.T. Mello (São Paulo, BR)*
- P435** **Explore the impact of circadian rhythm patterns for nurses' sleep under the influence of the shift system**  
*C.-P. Kuo, W.-C. Liao, S.-C. Chung (Taichung, Taoyuan, TW)*
- P436** **Sleeping disorders among Dutch visually impaired persons: an investigating study**  
*K.J. van Rijn, M.V. Joosse, G.A. Kerkhof (The Hague, NL)*
- P437** **A placebo controlled study of the effects of blue light therapy on sleep and performance in late chronotypes**  
*M. Geerdink, D.G.M. Beersma, V. Hommes, M.C.M. Gordijn (Drachten, Groningen, NL)*
- P438** **Delayed sleep phase syndrome**  
*P.E. Hesla (Oslo, NO)*
- P439** **Job strain and vagal recovery during sleep in female shift workers**  
*K. Karhula, A. Henelius, M. Härmä, M. Sallinen, H. Lindholm, M. Kivimäki, J. Vahtera, S. Puttonen (Helsinki, Turku, FI)*

**18.30 – 20.00** **Sleep disorders – Insomnia 1**

Poster Exhibition

- P440** **Preliminary evidence for quality of life improvements after acceptance and commitment therapy in primary insomnia**  
*E. Hertenstein, N. Thiel, M. Lueking, A.K. Kuelz, E. Schramm, C. Baglioni, K. Spiegelhalder, D. Riemann, C. Nissen (Freiburg, DE)*
- P441** **The mediating role of anxiety and depression on the association between perfectionism, sleep-disturbances, and insomnia severity**  
*U. Akram, J.G. Ellis, A. Myachykov, N.L. Barclay (Newcastle upon Tyne, GB)*
- P442** **Sublingual flumazenil for the residual effects of hypnotics: zolpidem and brotizolam**  
*N. Katz, G. Pillar, E. Peled, N. Peled (Haifa, Hod Hasharon, Holon, IL)*
- P443** **Don't worry, sleep well**  
*C. Soares, A. Allen, M. Ferreira, M.H. Azevedo (Aveiro, Coimbra, PT)*
- P444** **Factors associated with self reported insomnia and sleep loss over worry in young adults**  
*C. Faria, M. Ferreira, A. Allen, M.H. Azevedo (Aveiro, Coimbra, PT)*
- P445** **Correlates of self reported insomnia in young adults**  
*S. Rego, A. Allen, M.H. Azevedo, M. Ferreira (Aveiro, Coimbra, PT)*
- P446** **Greater general repetitive negative thinking directly predicts more severe insomnia in males: in females it is all about depression**  
*L.B. Bertolino, M. Olathe, S. Tan, E.R. Watkins, R.S. Bucks (Crawley, AU; Exeter, GB)*
- P447** **The effectiveness of mindfulness meditation with cognitive behavioral therapy in patients with chronic insomnia**  
*S.C. Hong, T.W. Kim, S.Y. Kim (Seoul, Suwon, KR)*

- P448 Clinical characteristics of patients with primary insomnia in Korea: comparing the misperception group and non-misperception group**  
*Y.W. Cho, M.L. Song, Y.S. Lee, H.J. Moon (Daegu, KR)*
- P449 Perfectionistic tendencies in insomnia patients' behaviour during psychometric testing**  
*K. Spiegelhalder, E. Hertenstein, P. Weil, S.D. Kyle, C. Baglioni, C. Nissen, B. Feige, D. Riemann, W. Regen (Freiburg, DE; Manchester, GB)*
- P450 Slow dissolving of emotional distress contributes to hyperarousal**  
*P.F. Wassing, J.S. Benjamins, K. Dekker, S. Moens, Y.D. Van Der Werf, L.M. Talamini, M.P. Walker, F. Schalkwijk, E.J.W. Van Someren (Amsterdam, NL; Berkeley, US)*
- P451 Blood lead levels and sleep quality in workers of lead- zinc companies**  
*M. Yoosefian, K.S. Haghighi, O. Aminian (Tehran, IR)*
- P452 The role of emotion dysregulation in insomnia: longitudinal findings from a large community sample**  
*M. Jansson-Fröjmark, A. Norell-Clarke, S. Linton (Stockholm, Örebro, SE)*
- P455 Prevalence, associated factors and management of insomnia in prison populations: an integrated review**  
*L.H. Dewa, S.D. Kyle, L. Hassan, J. Shaw, J. Senior (Manchester, GB)*
- P456 Sleeping difficulties remain chronic over nine years in young Australian women**  
*M.L. Jackson, N.T. Diamond, E.M. Sztendur, J.E. Byles, D. Bruck (Melbourne, Newcastle, AU)*
- P457 Beliefs about the 'shape' and continuity of healthy sleep as a function of age**  
*D. Bruck, C.L. Dolan, L.C. Lack (Adelaide, Melbourne, AU)*
- P458 Correlates of improvements in daytime impairments during cognitive behavioural therapy for primary insomnia**  
*A. Sweetman, L. Lack, N. Lovato, H. Wright, D. Kennaway (Adelaide, AU)*
- P459 Structural and functional changes in the mesolimbic system in primary insomnia patients: an fMRI and DTI study**  
*Y. Motomura, K. Oba, Y. Terasawa, K. Nozaki, N. Ayabe, Y. Moriguchi, Y. Kamei, S. Higuchi, K. Mishima (Fukuoka, Kodaira, JP)*
- P460 Does mindfulness have an impact on hyperarousal in participants with insomnia complaints?**  
*F. Jermann, K. Cervena, P. Cordera, C. Carlei, B. Weber, J.-M. Aubry, G. Bondolfi (Geneva, CH)*
- P461 Experiences of insomnia patients from specialist clinics compared to a community sample: how different are they?**  
*J.M.Y. Cheung, D.J. Bartlett, T. Laba, C.L. Armour, B. Saini (Sydney, AU)*
- P462 Acute and chronic effects of electroacupuncture on daytime vigilance in primary insomnia: placebo-controlled EEG topography/tomography and psychometric studies**  
*B. Saletu, A. Meng, P. Anderer, E. Doll, S. Rosales-Rodriguez, M. Bijak, D. Stockenhuber, H. Nissel, G.M. Saletu-Zyhlarz (Vienna, AT)*
- P463 Acute and chronic effects of electroacupuncture in primary insomnia: placebo-controlled clinical and polysomnographic studies**  
*G.M. Saletu-Zyhlarz, A. Meng, P. Anderer, E. Doll, S. Rosales-Rodriguez, M. Bijak, D. Stockenhuber, H. Nissel, B. Saletu (Vienna, AT)*
- P464 Cognitive training improves sleep quality and cognitive function among older adults with insomnia**  
*I. Haimov, E. Shatil (Emek Yezreel, IL)*
- P465 Quality of sleep and quality of life in patients with primary insomnia treated with a prolonged-released melatonin**  
*R.E. Poirrier, N. Witters, L. Cambron, J. Imschoot (Brussels, Liège, BE)*

- P466 Is a poor night of sleep followed by a bad day?**  
*L.C. Lack, R. Smith, N. Lovato, H.R. Wright (Adelaide, AU)*
- P467 Factors affecting therapeutic responsiveness to eszopiclone in adult patients with chronic insomnia: a post hoc analysis of a double-blind phase III study in Japan**  
*Y. Inoue (Tokyo, JP)*
- P468 Work time control and sleep disturbances**  
*P. Salo, L. Ala-Mursula, N.H. Rod, P. Tucker, J. Pentti, M. Kivimäki, J. Vahtera (Oulu, Turku, FI; Copenhagen, DK; Stockholm, SE; London, GB)*
- P469 Maladaptive beliefs and sleep quality in adults with insomnia symptoms**  
*B.I. Voinescu, A. Szentagotai (Cluj-Napoca, RO)*
- P470 Transcranial magnetic stimulation as therapeutic option in patients with diagnose of idiopathic insomnia**  
*D.Y. Arana Lechuga, O. Sanchez Escandon, M.A. Collado, P. Shkurovich Bialik, J. Velazquez, G. Teran Pérez, A. Ruiz Chow (México, MX)*
- P471 The effect of support on internet-delivered treatment for insomnia: does baseline depression severity matter?**  
*J. Lancee, M. Sorbi, M. Eisma, A. van Straten, J. van den Bout (Amsterdam, Utrecht, NL)*
- P472 Standardization of laboratory diagnostic of insomnia**  
*N. Zybina, O. Tikhomirova, M. Frolova, E. Butyrina (Saint-Petersburg, RU)*

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**18.30 – 20.00 Sleep disorders – Parasomnias** Poster Exhibition

- P473 Expert evidence on forensic parasomnias: a qualitative study of expert witnesses**  
*J.M. Rumbold (Birmingham, GB)*
- P474 Spectral analysis of polysomnography in narcolepsy**  
*K. Lee, M.-D. Kim, K.-J. Min, B.-H. Yoon, S.-Y. Lee, D.-I. Jon, Y.-J. Kwon, W.-M. Bahk, S.-K. Chung (Anyang, Cheonan, Gyeongju, Iksan, Jeju, Jeonju, Naju, Seoul, KR)*
- P475 Mirtazapine-induced sleep related eating behavior**  
*K.-J. Min, W.-M. Bahk, J.-H. Jeong, B.-H. Yoon, S.-Y. Lee, D.-I. Jon, Y.-J. Kwon, K.H. Lee, S.-K. Chung, M.-D. Kim (Anyang, Cheonan, Gyeongju, Iksan, Jeju, Jeonju, Naju, Seoul, Suwon, KR)*
- P476 Agomelatine in idiopathic REM sleep behavior disorder**  
*M. Zucconi, L. Ferini-Strambi, S. Marelli, A. Galbiati, A. Oldani, R. Ferri (Milan, Troina, IT)*
- P477 Objective daytime sleepiness in somnambulism/sleep terrors: a case-control study**  
*R. Lopez, I. Jausseint, B. Carlander, Y. Dauvilliers (Montpellier, FR)*
- P478 REM sleep behavior disorder and sleep-related epilepsy**  
*T. Nozawa (Minato, JP)*
- P479 Clinical manifestations and polysomnographic findings in patients with REM sleep behavior disorder**  
*M. Aguilar Andújar, M.D. Guerrero Sánchez, C. Menéndez de León, C. Méndez Lucena, J.M. López Domínguez (Seville, ES)*
- P480 New data on psycho-behavioral and polysomnographic profiles of patients affected by night eating syndrome**  
*P. Vinai, R. Ferri, M. Anelli, L. Ferini-Strambi, M. Zucconi, A. Oldani, M. Manconi (Magliano Alpi, Milan, Troina, IT; Lugano, CH)*
- P481 Effects of clonazepam and pramipexole on REM sleep behavior disorder**  
*M. Kohsaka, N. Fukuda, Y. Syoji, T. Ishikane (Sapporo, JP)*
- P482 Investigating the role of cortical “off periods” on the EEG theta power with a Jansen and Ritt's model**  
*F. Le Bourdiec, A. Shaffii - Le Bourdiec, V. Muto, M. Jaspard, P. Maquet (Liège, BE)*

- P483 Obstructive sleep apnea in patients with fibromyalgia – report from a fibromyalgia clinic**  
*G. Welsh, A. Vincent, L. Loehrer, S. Cha, D. Wahner-Roedler (Rochester, US)*
- P484 Restless legs syndrome (RLS): another intestine related disorder! Increased prevalence of RS in Crohn's disease**  
*M. Smits, P. Hoek, N.D. Roos, L. Rijsman, B. Witteman (Ede, The Hague, Wageningen, NL)*
- P485 Sleep disordered breathing in coronary heart disease patients with mild and moderate heart failure**  
*G. Varoneckas, A. Podlipskyte, A. Alonderis, A. Martinkenas (Palanga, LT)*
- P486 Excessive daytime sleepiness in obstructive sleep apnea and upper airways resistance syndrom – disturbed sleep microarchitecture by CAP-subtypes A2/A3 as a result of extraesophageal reflux**  
*W. Böhning, E. Briese (Bad Lippspringe, DE)*
- P487 Sleep-wake abnormalities in patients with cirrhosis**  
*S. Montagnese, M. De Rui, M. Corrias, M. Turco, P. Amodio, C. De Pittà, R. Costa, B. Middleton, D.J. Skene (Padova, IT; Guildford, GB)*
- P488 Sleep disturbances compared to traditional risk factors for incident diabetes: systematic review and meta-analysis**  
*S. Reutrakul, T. Anothaisintawee, A. Thakkinstian, E. Van Cauter (Bangkok, TH; Chicago, US)*
- P489 Sudden cardiac death in patients with systolic heart failure, Cheyne-Stokes breathing and amiodarone-induced thyrotoxicosis: a case report**  
*O.V. Lyshova (Voronezh, RU)*
- P490 Increase apnea-hypopnea index and lengthening of QTc interval closely correlated in newly diagnosed untreated patients with obstructive sleep apnea and arterial hypertension**  
*N.V. Borodin, O.V. Lyshova (Voronezh, RU)*
- P491 Predictors of excessive daytime somnolence**  
*A. Corlateanu, V. Sircu, S. Pylchenko (Chisinau, MD)*
- P492 The role of effective CPAP therapy in patients with idiopathic pulmonary fibrosis and obstructive sleep apnoea**  
*C. Mermigkis, I. Bouloukaki, G. Papadogiannis, K. Antoniou, D. Mermigkis, I. Giannarakis, G. Varouchakis, N.M. Sifakas, S.E. Schiza (Heraklion, GR)*
- P493 Obstructive sleep apnoea syndrome and comorbidities**  
*A. Corlateanu, V. Sircu, R. Cobiletchi (Chisinau, MD)*
- P494 Sleep disturbances and risk of myocardial infarction among men aged 25-64 years (WHO MONICA -psychosocial)**  
*V. Gafarov, E. Gromova, I. Gagulin, A. Gafarova (Novosibirsk, RU)*
- P495 The optimal dose of midazolam for sleep in critically ill patients: pilot study**  
*S.J. Kim (Seongnam-si, KR)*
- P496 The effect of age, gender, BMI and hypertension on the oxygen desaturation index**  
*E. Sõõru, K. Innos, R. Sepper (Tallinn, EE)*
- P497 Lifestyle considerations and type 2 diabetes risk: sleep quality and habitual caffeine consumption**  
*E. Urry, G.A. Spinaz, W. Langhans, D. Erkhova, R. Dürr, H.-P. Landolt (Schwerzenbach, Zurich, CH)*

- P499 Impact of nasal obstruction on sleep quality – a community based study of women**  
C. Bengtsson, L. Jonsson, M. Holmström, M. Svensson, J. Theorell-Haglöw, E. Lindberg (Stockholm, Uppsala, SE)
- P500 An association between intestinal microflora changes and sleep efficiency in chronic fatigue syndrome: a pilot open-label trial of the antibiotic erythromycin**  
M.L. Jackson, H. Butt, M. Ball, D. Lewis, D. Bruck (Donvale, Melbourne, AU)
- P501 Independent associations of low 25 hydroxy vitamin D and high parathyroid hormonal levels with OSA and NAFLD in Asian Indians residing in north India**  
S.P. Bhatt, Y.S. Yadav, R. Guleria, N.K. Vikram, V. Nandhan, A.K. Gupta (New Delhi, IN)
- P502 Sleep dysfunction in patients with panhypopituitarism**  
O. Urdanibia, O. Ciopat, M. Diaz, T. Torres, P. Rubio, M. Rubio, M.I. Del Olmo, R. Cámara, E. Gómez (Valencia, ES)
- P503 Effect of sleep modulation on trauma-induced cognitive impairment and histological trauma marker in a rat model of closed, diffuse traumatic brain injury**  
M.M. Morawska, F. Büchele, M. Penner, D. Noain, C.R. Baumann (Zurich, CH)
- P504 Sleep structure and cardiometabolic disorders in the general population: the Hypnolaus study**  
J. Haba-Rubio, P. Marques-Vidal, D. Andries, N. Tobback, M. Preisig, P. Vollenweider, G. Waeber, G. Luca, M. Tafti, R. Heinzer (Lausanne, CH)
- P505 Effect of sleep disordered breathing on postural stability**  
F. Degache, Y. Goy, S. Vat, J. Haba Rubio, O. Contal, R. Heinzer (Lausanne, CH; Montreal, CA)
- P506 Obstructive sleep apnea syndrome (OSAS) and erythrocytosis**  
P. Arrieta Narvaez, C. Jurkojc Mohremberger, E. Mañas Baena, R. Mirambeaux Villalona, C. Gotera Rivera, D. Barrios Barreto, P. Lazo Meneses, M.A. Galarza Jimenez, P. Castro Gomez, J. Garcia de Leaniz, E. Perez Rodriguez (Madrid, ES)
- P507 High rates of medical comorbidity in narcolepsy: findings from the burden of narcolepsy disease (BOND) study of 9,312 patients in the United States**  
J. Black, N. Reaven, S. Funk, K. McGaughey, M. Ohayon, C. Guilleminault, C. Ruoff (La Canada, Palo Alto, San Luis Obispo, US)
- P508 Nocturnal intermittent hypoxemia: utility for the evaluation of severity sleep apnea and cardiovascular comorbidity**  
P.M. Lazo Meneses, E. Mañas Baena, C. Gotera Rivera, D. Barrios Barreto, A. Pedrera Mazarro (Madrid, ES)
- P509 Impact of continuous positive airway pressure (CPAP) on chronic cough in obstructive sleep apnoea (OSA) – a randomized controlled trial**  
K. Chan, S. Birring, G. Cossa, L. Laks, P. Rogers, A. Ing (Concord, Sydney, Sydney, AU; London, GB)
- P510 Interrelationship of sleep quality with fatigue, neuroticism and global health in unexplained chronic fatigue: the validity of current fatigue scales**  
A. Mariman, E. Tobback, I. Hanouille, L. Delesie, D. Pevernagie, D. Vogelaers (Ghent, BE)
- P511 The effect of one year CPAP therapy on blood pressure values in obstructive sleep apnea patients with severe resistant hypertension-an on going study**  
O.C. Deleanu, A.E. Malaut, A.R. Sandu, M.M. Micheu, F.D. Mihaltan (Bucharest, RO)
- P512 Napping and risk of type 2 diabetes in adult humans**  
C. Hublin, M. Partinen, M. Koskenvuo, J. Kaprio (Helsinki, FI)
- P513 Co-Morbidities in a Portuguese sample of obstructive sleep apnoea patients**  
A. Martins da Silva, L. Silva, D. Cunha, J. Lopes, J. Ramalheira (Gandra, Porto, PT)
- P514 Sleep disorders in patients with fatigue-related problems**  
E. Pajediene, D. Friberg, I. Bileviciute-Ljungar (Kaunas, LT; Stockholm, SE)

- P515 Health complaints across age and gender: the impact of sleep variables**  
*T. Paiva, J. Maltez, M. Gonçalves (Lisbon, Oporto, PT)*
- P516 Sleep disturbances and quality of life in symptomatic patients with stable chronic obstructive pulmonary disease**  
*P. Boglou, D. Tsavlis, E. Nena, M. Xanthoudaki, S. Steiropoulos, P. Ntoliou, D. Bouros, P. Steiropoulos (Alexandroupolis, GR)*
- P517 Sleep quality and cytokine expression in adults with and without inflammatory bowel disease**  
*J.A. Groeger, P.J. Kennedy, G. Clarke, A. O'Neill, E. Quigley, F. Shanahan, J.F. Cryan, T.G. Dinan (Hull, GB; Cork, IE)*
- P518 The wake-up bus sleep study: falling asleep at the wheel in 19 European countries**  
*M.A. Goncalves, R. Amici, P. Peigneux, R. Lucas, T. Åkerstedt, F.C. Cirignotta, J. Horne, D. Léger, W. McNicholas, M. Partinen, J. Têran Santos, L. Grote (Lisbon, Porto, PT; Regensburg, DE)*
- P519 Impact of sleep quality and clinical outcome in the ICU patients: Central Asian study**  
*T. Sosorburam (Wuhan, CN)*
- P520 Predictors of self-reported sleep quality in university students**  
*F. Lopes, A.T. Pereira, A.A. Gomes, M.H. Azevedo (Coimbra, PT)*
- P521 Association between sleep quality and computer use among university students**  
*H. Hassani, G. Salehi, K. Sadeghniaat-Haghighi (Tehran, IR)*
- P522 Survey for sleep of neurology residents**  
*W.-J. Kim, J.H. Lee (Goyang-Si, Seoul, KR)*
- P523 Pets in the bedroom: a survey of American patients**  
*L.E. Krahn (Scottsdale, US)*

**18.30 – 20.00 Normal physiology of sleep and normal variants**

Poster Exhibition

- P524 Association between insulin and leptin levels and sleep duration in general population**  
*M. Bochkarev, L. Korostovtseva, Y. Sviryaev, E. Moguchaya, A. Alieva, E. Kolesova, A. Orlov, M. Boyarinova, E. Dudorova, O. Rotar, A. Konradi (Saint-Petersburg, RU)*
- P525 Stage 1 sleep: “no man’s land” between the opponent driving forces for wake and sleep**  
*A. Putilov (Novosibirsk, RU)*
- P526 Estimating individual optimal sleep time and potential sleep debt**  
*S. Kitamura, K. Nakazaki, Y. Motomura, Y. Katayose, A. Hida, K. Oba, R. Katsunuma, Y. Terasawa, M. Enomoto, K. Nozaki, Y. Moriguchi, K. Mishima (Kodaira, JP)*
- P527 Mechanisms underlying the association between anxiety and sleep architecture in healthy good sleepers: the role of pre-sleep arousal**  
*N.L. Barclay, G.J. Elder, R. Sharman, A. Sanchez, J.G. Ellis (Guildford, Newcastle, Newcastle upon Tyne, GB)*
- P528 Sleeping towards or against earth electromagnetic field?**  
*M.S. Banaei Abrand Abadi, A. Yazdanfar, A. Hekmatmanesh, K. Sadeghniaat-Haghighi (Tehran, IR)*
- P529 The alerting effects of ad-libitum daytime naps**  
*N. Lovato, T. Jarrad, G. Micic, L. Lack (Adelaide, AU)*
- P530 Physiologic effects of non-awakening electrocutaneous stimulation of palm during slow wave period of nap**  
*V.B. Dorokhov, G.N. Arsenyev, O.N. Tkachenko, A.N. Puchkova, E.A. Lukyanova, K.B. Filimonova, D.E. Shumov, P.A. Indursky (Moscow, RU)*

- P531 Involvement of the amygdala in blood pressure fluctuation during REM sleep**  
Y. Koyama, K. Nishimura, N. Haruyama, H. Ohnami, T. Aoyagi (Fukushima, JP)
- P532 The European Portuguese version of the children chronotype questionnaire (CCTQ): reliability and raw scores in a large continental sample**  
D.A. Couto, A.C. Allen Gomes, M.H.P. De Azevedo, S.C. Bos, J.A. Leitão, C.F. da Silva (Aveiro, Coimbra, PT)
- P533 Efficacy of Japanese sake yeast on the sleep quality: a double-blind randomised controlled clinical trial**  
N. Monoi, A. Matsuno, H. Minamino, T. Sugafuji, T. Seko, Y. Nakamura, E. Fukushima, T. Midorikawa, M. Murakoshi, A. Uchiyama, K. Sugiyama, H. Nishino, Y. Urade (Kyoto, Odawara, Kanagawa, Tsukuba, JP)

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**18.30 – 20.00 Instrumentation and methodology** Poster Exhibition

- P534 Sleep estimation based on respiratory analysis**  
A. Tataraidze, L. Anishchenko, M. Alekhin, L. Korostovtseva, Y. Sviryaev (Moscow, St. Petersburg, RU)
- P536 Investigating novel variables based on a probabilistic model of sleep microstructure for characterizing hypnotic drug effects**  
G. Dorffner, J. Sontheimer, G. Gruber, P. Anner, J. Dingemans (Vienna, AT; Allschwil, CH)
- P537 Could a virtual human be used to explore excessive daytime sleepiness in patients?**  
P. Philip, S. Bioulac, A. Sauteraud, C. Chaufton, J. Olive (Bordeaux, FR)
- P538 Automatic sleep classification using a data-driven approach reveals six latent sleep states**  
H. Koch, J.A.E. Christensen, R. Frandsen, M. Zoetmulder, L. Arvastson, S.R. Christensen, H.B.D. Sorensen, P. Jennum (Copenhagen, Kgs. Lyngby, Valby, DK)
- P539 Feasibility of sleep apnea detection using a single piezo snoring sensor**  
E. Urtnasan, J.U. Park, H.K. Lee, H.J. Kim, K.J. Lee (Seoul, Wonju, KR)
- P540 Polish adaptation of Holland Sleep Disorders Questionnaire – first impression from pilot study**  
R. Rogoza, M. Maćkiewicz, G.A. Kerkhof, C. Żechowski, A. Wichniak (Warsaw, PL; Amsterdam, NL)
- P541 Automatic artifact detection for whole-night polysomnographic sleep recordings**  
D. Coppieters, S. Chellappa, G. Gaggioni, M. Jaspar, C. Meyer, V. Muto, G. Vandewalle, P. Maquet, C. Phillips (Liège, BE)
- P542 Efficacy of the mandibular advancement device in patients with sleep apnea syndrome**  
P. Lazo Meneses, E. Mañas Baena, C. Gotera Rivera, D. Barrios Barreto (Madrid, ES)
- P543 RemLogic® plug-in enables calculation of apnea-hypopnea index adjusted for severity of individual obstruction events**  
T. Leppänen, M. Särkkä, A. Kulkas, A. Muraja-Murro, S. Kupari, P. Tiihonen, E. Mervaala, J. Töyräs (Kuopio, Seinäjoki, FI)
- P544 Effect of different oxygen desaturation threshold criteria used for defining hypopneas on conventional and adjusted apnea-hypopnea indices and classification of sleep apnea severity**  
K. Myllymaa, S. Myllymaa, T. Leppänen, S. Kupari, A. Kulkas, P. Tiihonen, E. Mervaala, J. Seppä, H. Tuomilehto, J. Töyräs (Kuopio, Seinäjoki, FI)
- P545 The new therapy of sleep disturbances and depression by using the non-awakening electrostimulation during SWS**  
P.A. Indursky, V.V. Markelov, V.M. Shakhnarovich, V.B. Dorokhov (Moscow, RU)

- P546 FASST, “fMRI artefact removal and sleep scoring toolbox”**  
*D. Coppieters, J. Schrouff, P. Maquet, C. Phillips (Liège, BE)*
- P547 Heart rate variability evaluation of sleep mattress breathing categories**  
*M. Tenhunen, J. Lipponen, J. Virkkala, S. Kuusimäki, S.-L. Himanen (Helsinki, Kuopio, Tampere, FI)*
- P548 Evaluation of compressed tracheal sound patterns in screening of sleep-disordered breathing**  
*M. Tenhunen, E. Huupponen, J. Hasan, O. Heino, S.-L. Himanen (Tampere, FI)*
- P549 Overnight pulse wave analysis in patients with suspected sleep apnea and diabetes mellitus**  
*D. Sommermeyer, J. Hedner, D. Zou, J.H. Ficker, W. Randerath, T. Penzel, B. Sanner, L. Grote (Gothenburg, SE; Berlin, Nuernberg, Solingen, Wuppertal, DE)*
- P550 Features analysis of actigraphic recordings for sleep/wake classification**  
*G. Orellana, C. Held, P. Estevez, C. Perez, S. Reyes, C. Algarin, P. Peirano (Santiago, CL)*
- P551 Previous irregular sleep pattern may influence the first night effect**  
*H.-K. Yoon, H.-J. Lee, D.-H. Lee, L. Kim, C.-H. Cho, S.-G. Kang (Incheon, Seoul, KR)*
- P552 Can we define a threshold for MWT sleep latencies regarding driving risk?**  
*P. Philip, C. Chaufton, J. Taillard, P. Sagaspe, D. Léger, M. Raimondi, A. Vakulin, A. Capelli (Bordeaux, Paris, FR; Lugano, CH; Adelaide, AU)*



- P553 Sleep duration and cognitive performance in older adults: a systematic review and meta-analysis**  
*J.C. Lo, G. Cheng, K.K. Loh, R. Leong, M. Chee (Singapore, SG; Hong Kong, HK)*
- P554 Sleep across the ages: pediatric, adult, and, geriatric idiosyncrasies**  
*P. Seibert, C. Dehaas, J. Valerio, F. Grimsley, C. Zimmerman (Boise, US)*
- P555 Changes in sleep across the lifespan: using mathematical models to explore hypotheses to explain sleep timing**  
*A. Skeldon, D.-J. Dijk, G. Derks (Guildford, GB)*
- P556 Caffeine chronic consumption during early post-weaning in rats negatively affects emotional status later in life**  
*T. Basishvili, R. Szymusiak, I. Gvilia (Tbilisi, GE; Los Angeles, US)*
- P557 Associations between nocturnal sleep and daytime functioning in 206 healthy young, middle-aged and older participants**  
*C. della Monica, G. Atzori, S. Johnsen, J.A. Groeger, D.-J. Dijk (Guildford, GB)*
- P558 Neonatal sleep restriction induces pronociceptive behaviour and changes in c-Fos expression in periaqueductal gray of adolescent mice**  
*P. Araujo, C.A.O. Coelho, M.G.M. Oliveira, S. Tufik, M.L. Andersen (São Paulo, BR)*

- P559 Health hazards accumulate to evening chronotype**  
*I. Merikanto (Helsinki, FI)*
- P560 What could “owls” do in our ancestral environment? Evolutionary chronotypological account for the origin of nocturnal lifestyle**  
*A. Putilov (Novosibirsk, RU)*
- P561 Seasonal variation in human executive brain responses**  
*C. Meyer, M. Jaspard, V. Muto, C. Kussé, S.L. Chellappa, C. Degueldre, E. Balteau, A. Luxen, F. Collette, B. Middleton, C. Phillips, S.N. Archer, D.-J. Dijk, G. Vandewalle, P. Maquet (Liege, BE; Guildford, GB)*
- P563 Chronotype-dependent nap behaviour in shift workers**  
*J.L. Mehlmann, D. Fischer, C. Vetter, T. Roenneberg (Munich, DE)*
- P564 Assessment of difference in chronotypes between patients with multiple sclerosis and healthy controls**  
*M. Mioč, B. Barun, M. Habek, A.K. Barušić, I. Bach (Zagreb, HR)*
- P565 Individual differences in the variability of sleep times across the week**  
*M.T. Blagrove (Swansea, GB)*
- P566 Effects of lunar phase on sleep in men and women in Surrey**  
*C. della Monica, G. Atzori, D.-J. Dijk (Guildford, GB)*
- P567 Sleep habits in a representative sample of the Swiss population**  
*G. Tinguely, H. Landolt, C. Cajochen (Basel, Bern, Zurich, CH)*
- P568 Association between morningness/eveningness, addiction severity and psychiatric disorders among individuals with addictions**  
*M. Fatseas, C. Kervran, R. Debrabant, J. Leboucher, J.-M. Alexandre, F. Serre, J. Taillard, P. Philip, M. Auriacombe (Bordeaux, FR)*

- P569 Sleep and fatigue among officers on board gas tankers**  
*E.F.E.R. Rongen, A.E.W.G. Rost-Ernst, R. Kloos, W.M.A. van Leeuwen (Rotterdam, NL; Stockholm, SE)*
- P570 Long term sleep and fatigue at sea: a field study**  
*W.M.A. van Leeuwen, M. Barnett, C. Pekcan, G. Kecklund, T. Åkerstedt (Stockholm, SE; Southampton, GB)*
- P571 Effect of circadian thermoregulatory phase in recovery of both temperature and rest/activity rhythms after a standard physical exercise in rats**  
*O.-C. Koumar, V. Crunel, V. Bouet, T. Fréret, S. Moussay, N. Bessot (Caen, FR)*
- P572 Naturalistic field study of sleep and performance in truck drivers: effects of the number of nights in the restart break between duty cycles**  
*A.R. Sparrow, R. Bartels, K. Kan, S.M. Riedy, A. Unice, B.C. Satterfield, D.J. Mollicone, H.P.A. Van Dongen (Philadelphia, Spokane, US)*
- P573 Age-dependent non-visual effects of a moderately bright light exposure during 40-hours of extended wakefulness**  
*V. Gabel, M. Maire, C.F. Reichert, C. Schmidt, C. Garbazza, C. Cajochen, A.U. Viola (Basel, CH)*
- P574 Nightmares are associated with seasonal variations in mood and behavior**  
*K. Valli, N. Sandman, E. Kronholm, A. Revonsuo, T. Laatikainen, T. Partonen, T. Paunio (Helsinki, Turku, FI)*
- P575 Chronotype, genotype and sleep behaviours in adolescents; the effect of technology access on preferred and actual behaviour**  
*S. O'Neill, S. Dockray (Cork, IE)*
- P576 Is chronotype associated with cardiovascular risk factors?**  
*S. Puttonen, P. Vanttola, M. Härmä, K. Viitasalo (Helsinki, FI)*
- P577 Cortical excitability dynamics during extended wakefulness set PVT performance**  
*C. Borsu, G. Gaggioni, J.Q.M. Ly, S. Papachilleos, A. Brzozowski, M. Rosanova, S. Sarasso, S.N. Archer, D.-J. Dijk, C. Phillips, P. Maquet, M. Massimini, S.L. Chellappa, G. Vandewalle (Liege, BE; Milan, IT; Guildford, GB)*
- P578 Influence of artificial dusk on sleep**  
*K.V. Danilenko, V. Hommes (Novosibirsk, RU; Drachten, NL)*
- P579 Social jetlag in Korean people**  
*S.-H. Baek, H. Im, J.-S. Kim, S.-H. Park, C.-H. Yun (Seongnam, KR)*
- P580 The effect of bright light treatment via ear canals (device VALKEE™) on mood and well-being in healthy subjects**  
*G. Kloesch, V. Frey, L. Stolzlechner, S. Tschoner, E. Millesi (Vienna, AT)*
- P581 Ultradian rest-activity rhythm of fetal movement starts in conceptual 28-weeks**  
*K. Nishihara, S. Horiuchi (Kawasaki-shi, Tokyo, JP)*
- P582 Working night shifts affects surgeons' biological rhythm**  
*I. Amirian, L.T. Andersen, J. Rosenberg, I. Gögenur (Herlev, DK)*
- P583 Chronotype and P300 amplitude after chronic sleep restriction**  
*H. Oginska, E. Beldzik, A. Domagalik, M. Fafrowicz, T. Marek (Krakow, PL)*
- P584 Blue blocker glasses as a countermeasure for alerting effects of evening LED-screen exposure in teenagers**  
*S. Van der Lely, F. Sylvia, A. Wirz-Justice, C. Garbazza, O.G. Jenni, C. Cajochen, C. Schmidt, V. Bromundt (Basel, Zürich, CH)*
- P585 Short day forced desynchrony in C57BL/6J mice leads to arrhythmia and sleep disturbances**  
*S. Hasan, R. Foster, S. Peirson (Oxford, GB)*

- P586** **Change to higher illuminance and light colour temperature in open office, implications for sleep and sleepiness in Scandinavian winter**  
*A. Lowden, B.M.I. van der Zande, L. Geerdinc (Stockholm, SE; Eindhoven, NL)*

**16.15 – 17.45 Learning, memory and cognition 2**

Poster Exhibition

- P587** **Sleep-dependent changes in learning-related magnetic evoked fields in children**  
*C. Urbain, X. De Tiège, M. Op De Beeck, A. Nonclercq, D. Verheulpen, M. Bourguignon, R. Schmitz, S. Galer, P. Van Bogaert, P. Peigneux (Brussels, BE)*
- P588** **The role of rapid eye movement sleep for the consolidation of emotional stories**  
*M. Gilson, A. Bodart, G. Deliëns, P. Peigneux (Brussels, BE)*
- P589** **Insomnia treatment and cognitive functioning in adolescents**  
*E.J. de Bruin, J.F. Dewald-Kaufmann, F.J. Oort, S.M. Bögels, A.M. Meijer (Amsterdam, NL)*
- P590** **The effect of sound stimulation during sleep on procedural memory processes**  
*E. Saure, M. Leminen, J. Virkkala, T. Paunio, M. Huotilainen (Helsinki, FI)*
- P591** **Sleep-dependent memory consolidation and SMR neurofeedback - a double-blind study in primary insomnia**  
*M. Schabus, H. Griessenberger, D. Heib, M. Wislowska, K. Hödlmoser (Salzburg, AT)*
- P592** **Fragmenting sleep with auditory stimulation: preliminary findings regarding sleep dependent memory consolidation**  
*S. Landry, C. Anderson, R. Conduit (Melbourne, AU)*
- P593** **Sleep to boost adaptation of an over-practiced fine-motor skill**  
*M. Petzka, J. Birkbauer, J. Benjamins, G. Gruber, E. Van Someren, K. Hoedlmoser (Salzburg, Vienna, AT; Amsterdam, NL)*
- P594** **Poor sleep, cognitive ability and function in early adolescence**  
*L. Kuula-Paavola, A.-K. Pesonen, S. Martikainen, K. Räikkönen-Talvitie, E. Kajantie (Helsinki, FI)*
- P595** **Does unintentional learning without emotional valence still consolidate during REM-sleep?**  
*M.L. Wong, K.N.T. Lau, E.Y.Y. Lau (Pokfulam, HK)*
- P596** **Sleep deprivation, not sleep, fosters insight in a verbal creativity task**  
*N. Landmann, M. Kuhn, H. Piosczyk, B. Feige, K. Spiegelhalder, C. Baglioni, D. Riemann, C. Nissen (Freiburg, DE)*
- P597** **Memory is affected by sounds presented with time-locking to EEG delta**  
*M. Huotilainen, M. Leminen, M. Gröhn, C. Hublin, T. Paajanen, E. Saure, J. Virkkala, T. Paunio (Helsinki, FI)*
- P598** **How to measure sleep-dependent memory consolidation? - Don't forget the within-block position effect**  
*D. Nemeth, K. Janacsek (Budapest, HU)*
- P599** **No sleep-related enhancement in consolidation of implicit skills**  
*K. Janacsek, E. Hallgato, J. Pekar, D. Gyori-Dani, D. Nemeth (Budapest, Szeged, HU; Berlin, DE)*
- P600** **Effects of gentle rocking on sleep and memory**  
*A. Perrault, L. Bayer, S. Perrig, M. Muhlethaler, S. Schwartz (Geneva, CH)*
- P601** **The role of memory strength for sleep-associated memory consolidation**  
*D.P.J. Heib, N. Luketina, C. Holterman, K.-H.T. Bäuml, M. Schabus (Salzburg, AT; Regensburg, DE)*

- P602** **Slow oscillations during NREM sleep in adolescents are related to intellectual abilities**  
*K. Hoedlmoser, D.P.J. Heib, K. Bothe, S. Tibi, D. Koerner, M. Schabus (Salzburg, AT)*
- P603** **Retroactive memory interference and reconsolidation in long term memory**  
*A. Mary, S. Jobbe-Duval Mesa, P. Peigneux (Brussels, BE)*
- P604** **Expose to emotional stimuli change the micro structural sleep electroencephalography**  
*S. Seifpour, M. Mikaili, K. Sadeghniaat, A. Hekmatmanesh, A. Khorrami (Tehran, IR)*
- P605** **The role of REM-sleep in emotional recognition bias and discriminability**  
*K.N.T. Lau, M.L. Wong, E.Y.Y. Lau (Hong Kong, HK)*
- P606** **Detecting memory replay during sleep**  
*S.Y. Belal, J. Cousins, W. El-Deredy, L. Parkes, J. Schneider, P. Lewis (Manchester, GB)*

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**16.15 – 17.45** **Dreaming** Poster Exhibition

- P607** **The effect of low-frequency repetitive transcranial magnetic stimulation (rTMS) on subjective dream experience during sleep onset period**  
*K.-J. Laak, T. Bachmann, J. Aru (Tartu, EE)*
- P608** **Aggression in dreams of adolescents and young adults: further exploration of gender and within age differences**  
*A. Dale, C. Wong, J. De Koninck (Ottawa, CA)*
- P609** **Does rapid eye movement (REM) sleep prepare the brain for awakening?**  
*J. Axelsson, G. Kecklund, L. Tigesrström (Stockholm, SE)*

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**16.15 – 17.45** **Sleep deprivation 1** Poster Exhibition

- P610** **New findings on the link between sleep deprivation and risky behaviour in young adults**  
*N. Rusnac, F. Spitzenstetter, P. Tassi (Strasbourg, FR)*
- P611** **Physiological and cognitive changes after total sleep deprivation**  
*J.-H. Jeong, K.H. Lee, M.-D. Kim, K.-J. Min, S.-Y. Lee, S.-K. Chung, D.-I. Jon, B.-H. Yoon, Y.-J. Kwon, W.-M. Bahk (Anyang, Cheonan, Gyeongju, Iksan, Jeju, Jeonju, Naju, Seoul, Suwon, KR)*
- P612** **Successful sleep extension improves basal insulin resistance in usually sleep-restricted adults**  
*R. Leproult, G. Deliens, M. Gilson, P. Peigneux (Brussels, BE)*
- P613** **Napping on the night-shift: do recovery benefits extend to the commute home?**  
*S.A. Centofanti, C.J. Hilditch, J. Dorrian, H.P.A. Van Dongen, S. Banks (Adelaide, AU; Spokane, US)*
- P614** **Repeated sleep extension and sleep restriction in healthy young people leads to transient homeostatic responses in sleep and wake EEG**  
*E.L. Arbon, A.S. Lazar, J.C. Lo, S. Johnson, D.-J. Dijk (Guildford, GB)*
- P615** **An EEG analogue of the Karolinska Sleepiness Scale based on the Karolinska Drowsiness Test**  
*A. Putilov, O. Donskaya (Novosibirsk, RU)*
- P616** **Effects of 10min and 30min night-time naps on sleep inertia**  
*C.J. Hilditch, S.A. Centofanti, J. Dorrian, H.P. Van Dongen, S. Banks (Adelaide, AU; Spokane, US)*

- P617 Effects of partial sleep deprivation on the neural mechanisms of face perception**  
H. Thune, G. Nilsson, S. Tamm, P. d'Onofrio, J. Schwarz, G. Kecklund, M. Lekander, T. Åkerstedt, H. Fischer (Stockholm, SE)
- P618 Sleep restriction impairs vigilance but not temporal attention**  
A. Filtness, V. Beanland (Canberra, Kelvin Grove, AU)
- P619 Association between self-reported sleep quality and metabolic syndrome among healthcare workers**  
O. Aminian, K. Sadeghniaat, N. Izadi, M. Amini (Tehran, IR)
- P620 The relationship between sleepiness and driving ability**  
I. Haimov, M. Cale, Y. Shafran, O. Tzischinsky (Emek Yezreel, IL)
- P621 Cocoa flavanols to counteract the effects of sleep deprivation on cognitive functions**  
M. Ferrara, D. Tempesta, D. Grassi, V. Socci, C. Ferri, L. De Gennaro, G. Desideri (L'Aquila, Rome, IT)
- P622 Vigilance and cortical excitability after acute sleep deprivation and chronic sleep restriction**  
A. Maric, C. Lustenberger, J. Leemann, E. Werth, F. Gilgen, C. Wettstein, A. Tarnutzer, A. Pangalu, R. Huber, C. Baumann, R. Poryazova (Zurich, CH)
- P623 The sensitivity of tests measuring driving related skills to the effects of prolonged wakefulness**  
S. Jongen, E. Vuurman, J. Perrier, J.G. Ramaekers, A. Vermeeren (Maastricht, NL; Caen, FR)
- P624 Sleep and sleepiness during cumulative sleep restriction and subsequent recovery sleep**  
W.M.A. van Leeuwen, T. Porkka-Heiskanen, M. Sallinen, M. Härmä (Stockholm, SE; Helsinki, FI)
- P625 Caffeine increases light responsiveness of the circadian pacemaker**  
H.C. van Diepen, E.A. Lucassen, R. Yassenkov, I. Groenen, A.P. Ijzerman, J.H. Meijer, T. de Boer (Leiden, NL)
- P626 Transcriptome analysis of sleep deprivation induced neuroprotection in a rodent model of stroke**  
F. Baracchi, M. Pace, C. Bassetti (Bern, CH)
- P627 Effect of adenosine receptor antagonism in the blood-brain barrier disruption induced by chronic REM sleep loss**  
G. Hurtado-Alvarado, E. Domínguez-Salazar, J. Velázquez-Moctezuma, B. Gómez-González (México, MX)
- P628 Homeostatic regulation of REM sleep in narcoleptic mice**  
A. Roman, S. Meftah, C. Terrier, S. Arthaud, P.-H. Luppi, C. Peyron (Lyon, FR)
- P629 EEG topography during sleep inertia after recovery from sleep deprivation**  
M. Gorgoni, M. Ferrara, C. Marzano, A. D'Atri, G. Lauri, L. De Gennaro (L'Aquila, Rome, IT)
- P629a Orienting attention after sleep-loss: is it disengagement that makes the difference?**  
L. Riontino, C. Cavallero (Trieste, IT)

**16.15 – 17.45 Sleep disorders – Breathing 2**

Poster Exhibition

- P630 Didgeridoo therapy for Korean patients with obstructive sleep apnea**  
D. Kim, J.H. Kim, Y.-J. Cho, J.-G. Seo, H. Kim, S.B. Hong (Cheonan, Daegu, Daejeon, Goyang, Seoul, KR)

- P631 Sleep apnea in diabetic patients with macular oedema**  
*J. Truchot, L. Margarit, J.L. Pepin, B. Dupas, P. Massin, E. Vicaut, M.P. d'Ortho (Grenoble, Paris, FR)*
- P632 Sleep apnea and autonomic profile in patients undergoing coronary artery bypass grafting surgery**  
*M. Al-Abri, M. Mukaddirov, D. Jaju, H. Al-Sabti, K. Al-Hashmi, M. Hassan (Muscat, OM)*
- P633 Sleep loss and sleep disorders and their impact on the short- and long-term outcome of stroke**  
*S.B. Duss, T. Horvath, F. Zubler, A. Seiler, C. Roth, R. Wiest, S.R. Ott, M. Manconi, C.L. Bassetti (Bern, Lugano, CH)*
- P634 Plasma homocysteine in sleep apnea: a cardiovascular risk marker and the study of its relationship with respiratory parameters of sleep**  
*J. Fernández-Lahera, F. Ezzine, M. Martínez, A. Iglesias, J. Alfayate, F. De Borja, I. Artilés, R. Casitas, I. Fernandez, F. G Rio, R. Alvarez-Sala (Madrid, ES)*
- P635 Planetary habitat simulation: interactions between bedrest, hypoxia and confinement on sleep and breathing**  
*S.A. Morrison, D. Mirnik, Š. Korsic, O. Eiken, I.B. Mekjavic, L. Dolenc Groselj (Ljubljana, SI; Stockholm, SE)*
- P636 Is obstructive sleep apnea in older adults is associated with changes in the characteristics of sleep slow waves?**  
*K. Gagnon, A.-A. Baril, C. Arbour, A. Décary, J. Carrier, J. Montplaisir, J.-F. Gagnon, N. Gosselin (Montreal, CA)*
- P637 Efficacy of oral appliances for treating obstructive sleep apnea syndrome in a Japanese clinical setting**  
*H. Kadotani, M. Arimura, M. Uetsu, M. Yamori, M. Matsuo, A. Yoshimura, N. Yamada (Nagahama, Otsu, JP)*
- P638 Sexual dysfunction in severe OSA**  
*J.W. Cho, K.T. Kim (Yangsan, KR)*
- P639 Can auto CPAP titration replace CPAP titration of split-night polysomnography?**  
*K.T. Kim, S.H. Park, D.-J. Kim, J.W. Cho (Pusan, Yangsan, KR)*
- P640 Effect of gender in prevalence of different comorbidities of obstructive sleep apnea patients**  
*M. Xanthoudaki, E. Nena, M. Manidou, M. Markou, S. Steiropoulos, G. Kolios, D. Bouros, P. Steiropoulos (Alexandroupolis, GR)*
- P641 Slow wave activity during sleep as a marker of impaired vigilance after sleep loss in obstructive sleep apnoea**  
*A. Vakulin, A. D'Rozario, H. Openshaw, D. Stevens, K. Wong, J.-W. Kim, R.D. McEvoy, R. Grunstein (Adelaide, Sydney, AU)*
- P642 Do clinical sleep measures predict vigilance impairment following sleep loss in patients with obstructive sleep apnoea?**  
*H. Openshaw, H. Naqvi, A. Vakulin, D. Stevens, A. D'Rozario, K. Wong, D. McEvoy, R. Grunstein (Adelaide, Sydney, AU)*
- P643 Modafinil and armodafinil in obstructive sleep apnoea. A systematic review and meta-analysis**  
*J.L. Chapman, A. Vakulin, B.J. Yee, N.S. Marshall (Glebe, AU)*
- P644 Do sleep stages affect the occurrence of respiratory events with arousals?**  
*H. Nakayama, M. Kobayashi, M. Yanagihara, E. Ito, S. Kasagi, Y. Setoguchi, Y. Inoue (Tokyo, JP)*
- P645 Six-months of CPAP treatment enhances slow wave activity and mood in OSA patients**  
*A.L. D'Rozario, A. Vakulin, K.K. Wong, J.W. Kim, D. Kim, R.R. Grunstein, D.J. Bartlett (Daw Park, Sydney, AU)*

- P646 Cost-effectiveness of positive airway pressure treatment in patients with obstructive sleep apnea syndrome**  
*D. Zou, M. Gannedahl, R. Harlid, J.F. Guest, J. Hedner (Gothenburg, Stockholm, SE; Northwood, GB)*
- P647 Usefulness of Epworth sleepiness scale for screening patients for severe obstructive sleep apnea among Bulgarian population**  
*K. Terziyski, A. Draganova, A. Hristova, S. Kostianev (Plovdiv, BG)*
- P648 Increased carbonic anhydrase activity is associated with nocturnal hypoxia in obstructive sleep apnea**  
*D. Eskandari, T. Wang, D. Zou, L. Grote, J. Hedner (Gothenburg, SE)*
- P649 Prevalence of obstructive sleep apnea syndrome in a population of non severely obese patients with nonalcoholic fatty liver disease**  
*M. Bulgheroni, E. Tobaldini, E. Pulixi, M. Pecis, M. Stracuzzi, S. Pelusi, A.L. Fracanzani, S. Fargion, L. Valenti, N. Montano (Milan, IT)*
- P650 Acromegaly screening in patients with sleep apnea symptoms**  
*A.T. Javier (Barcelona, ES)*
- P651 Obstructive sleep apnea with insomnia in hypertensive primary care patients – association with sleep complaints, depressive symptoms and self-rated health**  
*A. Broström, M. Ulander, O. Sunnergren, E. Svanborg, P. Johansson (Jönköping, Linköping, SE)*
- P652 STOPBang as a predictor of severity of obstructive sleep apnea**  
*I.B.M. IJsseldijk (Zwolle, NL)*
- P653 Vigilance and attention deficits are associated with motor vehicle accidents in sleep apnea patients**  
*M. Karimi, J. Hedner, D. Zou, D. Eskandari, A.-C.L. Lundquist, L. Grote (Gothenburg, SE)*
- P654 Prone positioning for treatment of obstructive sleep apnoea**  
*A. Bidarian- Moniri, M. Nilsson, J. Attia, H. Ejnell (Gothenburg, SE; Newcastle, AU)*
- P655 Combination of sleep apnea syndrome and haemangioma of the head and neck region: case study**  
*B. Faludi, M. Imre, L. Lujber, A. Büki (Pécs, HU)*
- P656 Relationship between apnea-hyponea index, Body-Mass-Index and the Epworth sleepiness scale in patient with OSAS**  
*T. Chikadze, E. Tsitlidze, L. Khuchua, A. Chikadze (Tbilisi, GE)*
- P657 First-night effect and night-to-night variability in patients with suspected OSAS**  
*P. Anderer, A. Moreau, M. Ross, A. Cerny, S. Löffler, S. Thusoo (Vienna, AT)*
- P658 The effectiveness of mandibular reposition appliances (MRA) in treatment of obstructive sleep apnea**  
*K.E. Schreuder, L.C. Rohling, X.H. de Vries, A. Hoekema, K. Finnema, A.W. de Weerd (Heerenveen, Zwolle, NL)*
- P659 An adjustable mandibular advancement device for the treatment of obstructive sleep apnea syndrome and its implications on glucose metabolism: a prospective 1-year follow-up study**  
*T. Galic, J. Bozic, I. Galic, N. Ivkovic, F. Mihanovic, T. Ticinovic Kurir, Z. Dogas (Split, HR)*
- P660 Factors for successful pharyngoplasty, Two-P4 (Two-piece Palatopharyngoplasty) in patients with obstructive sleep apnea syndrome**  
*I. Komada, S. Miyazaki, M. Okawa, M. Nishikawa, T. Tanaka, T. Kitamura, T. Shimizu (Kitakyusyu, Kusatsu, Kyoto, Otsu, Tokyo, JP)*
- P661 Morbid obesity and woman age are related to the obstructive sleep apnoea syndrome**  
*R. Huerta, F. Sánchez-Narváez, A. Labra, J.M. Perez, E. Garcia-Campos, J.H. Medina-Chavez, R. Haro (México, MX)*

- P663 Relationship between anthropometric measures and obstructive sleep apnoea in Mexican population**  
*J.H. Medina-Chavez, A. Labra, F. Sánchez-Narváez, J.E. Solís-Rodríguez, E. Garcia-Campos, R. Huerta, R. Haro (México, MX)*
- P664 HRV does not reflect severity of OSA in elderly**  
*E.-J. Kim, S.H. Kim, Y.M. Ahn (Seoul, KR)*
- P665 Comparison of manual and automatic evaluation of polygraphy in patients after acute myocardial infarction**  
*R. Štěpánová, O. Ludka, T. Kára, J. Špinar (Brno, CZ)*
- P666 Correlation between blood pressure overreaction during exercise test and severity of obstructive sleep apnea**  
*M. Sova, E. Sovova, M. Hobzova, M. Kamasova, J. Zapletalova, V. Kolek (Olomouc, CZ)*
- P667 Correlation between exercise test results and body composition measured by bioimpedance method in patients with obstructive sleep apnea**  
*E. Sovova, M. Sova, M. Hobzova, M. Kamasova, J. Zapletalova, V. Kolek (Olomouc, CZ)*
- P668 The consolidation of declarative and non-declarative memory in children with sleep disorder breathing**  
*E. Csabi, P. Benedek, K. Janacsek, G. Katona, D. Nemeth (Budapest, Szeged, HU)*
- P669 The incidence of atrial fibrillation in hypertensive patients: the role of obstructive sleep apnea**  
*L. Korostovtseva, Y. Sviryayev, N. Zvartau, O. Rotar, A. Konradi, E. Shlyakhto (St. Petersburg, RU)*
- P670 Comparison of metabolic and endocrine parameters in patients with moderate and severe obstructive sleep apnea**  
*J. Bozic, T. Galic, D. Supe-Domic, N. Ivkovic, T. Ticinovic Kurir, Z. Valic, Z. Dogas (Split, HR)*
- P671 nocturia and morbid obesity as predictors for severe apnoea-hypopnoea index and SaO2 decrease**  
*A. Labra, A. Palacios, F. Sánchez-Narváez, A.-D. Huerta-Delgado, R. Haro-Valencia (México, MX)*
- P672 Efficacy of the combined approach uvulopalatopharyngoplasty-base of tongue somnoplasty as a treatment of the obstructive sleep apnoea syndrome**  
*A. Labra, A.-D. Huerta-Delgado, J.H. Medina-Chávez, R. Haro-Valencia (México, MX)*
- P673 efficacy of submucosal sodium tetradecyl sulfate in the soft palate as a treatment of the mild obstructive sleep apnoea syndrome. A pilot study**  
*A. Labra, R. Haro-Valencia, A.-D. Huerta-Delgado, E.P. García-Campos, J.H. Medina-Chávez, R. Huerta (México, MX)*
- P674 Association of excessive daytime sleepiness with smoking, inflammatory markers and cardiovascular risk**  
*L.M. Puiu (Baia-Mare, RO)*

**16.15 – 17.45 Sleep disorders – Insomnia 2**

Poster Exhibition

- P675 Spindles and slow waves predict treatment responses to cognitive-behavioural therapy for chronic primary insomnia**  
*J. O'Byrne, S. Boucetta, L. Reed, O. Malhi, V. Zhang, A. Arcelin, K. Wenzel, M. Brandewinder, C. Berthomier, J.-P. Gouin, T.T. Dang-Vu (Montreal, CA; Paris, FR)*
- P676 The effect of mindfulness-based stress reduction on insomnia complaint in naturalistic sample of adult outpatients**  
*K. Cervena, F. Jermann, P. Cordera, C. Carlei, B. Weber, J.-M. Aubry, G. Bondolfi (Geneva, CH)*



- P677** **Prevalence of insomnia and its impact on anxiety, depression and quality of life in Korean fire fighters**  
*S.Y. Lee, W.-M. Bahk, S.-K. Chung (Iksan, Jeonju, Seoul, KR)*
- P678** **Role of insomnia in perceived stress and coping strategies in subjects with arterial hypertension**  
*L. Palagini, R. Bruno, V. Mancuso, M. Mauri, L. Ghiadoni, S. Taddei (Pisa, IT)*
- P679** **Association between insomnia and use of blood pressure-lowering drugs in hypertensive patients: a cross-sectional cohort study**  
*R. Bruno, L. Palagini, V. Mancuso, M. Cargioli, M. Mauri, L. Ghiadoni, S. Taddei (Pisa, IT)*
- P680** **NREM sleep instability is dramatically reduced in patients with chronic insomnia and dependence on high dosage of benzodiazepines**  
*S. Miano, R. Ferri, V. Bottasini, M. Zucconi, M. Maestri, L. Ferini-Strambi, M. Manconi (Lugano, CH; Milan, Troina, IT)*
- P681** **Perceptions of insomnia and daytime symptoms as a function of objective sleep duration**  
*D.C. Jarrin, A. Rochefort, M. Lamy, H. Ivers, C. Morin (Québec, CA)*
- P682** **The effectiveness of an Internet based treatment for insomnia**  
*E. Bjornsdottir, S. Ellertsson, G. Johannsson, H. Hrubos-Strøm (Reykjavík, IS; Lørenskog, NO)*
- P683** **Clinical significance of nocturnal 6-Sulfatoxymelatonin excretion in insomnia**  
*O. Tikhomirova, E. Butyrina, N. Zybina, M. Frolova (Saint Petersburg, RU)*
- P684** **Patients' perceptions of insomnia and its treatments options: a focus group approach**  
*T. Araújo, S. Lachance, M. Bolduc, A. Vallée, A. Vallières, C. Morin (Québec, CA)*
- P685** **Sleep quality and knowledge of sleep hygiene in working population**  
**A. Juozapaitienė, D. Mataciuniene (Vilnius, LT)**
- P686** **Effect of diaphragmatic breathing, progressive muscle relaxation and guided imagery on perceived stress, and cortisol salivary levels in primary insomnia sufferers: a randomized controlled trial**  
*A. Konsta, D. Dikeos, A. Bonakis, N.-T. Economou, G. Chrousos, C. Darviri (Athens, GR)*
- P687** **Polysomnographic features in insomniacs with anxiety with or benzodiazepines use**  
*R. Haro, F. Sánchez-Narváez, E. Garcia-Campos, A. Labra, R. Huerta, J.H. Medina-Chavez (México, MX)*
- P688** **Polysomnographic features in insomniacs with obstructive sleep apnoea**  
*F. Sánchez-Narváez, A. Labra, R. Huerta, E. Garcia-Campos, J.H. Medina-Chavez, R. Haro (México, MX)*
- P689** **Preliminary study: dreams of insomnia sufferers and their personality**  
*C.H. Bastien, M.-C. Auger, M. Desrochers-Couture, K. Turgeon, A.D. Perusse (Québec, CA)*
- P690** **Coping strategies mediate the effects of insomnia symptoms on maternal depression during pregnancy and following childbirth**  
*L. Kempler, D.J. Bartlett, L. Sharpe (Glebe, Sydney, AU)*
- P691** **Cognitive behavioral therapy in patients with psychophysiological insomnia**  
*D. Moser, E. Matt, K. Trimmel, S. Seidel (Vienna, AT)*
- P692** **Melatonin rhythm and sleep timing in community-dwelling insomnia patients**  
*J.H. Lee, J. Lee, S.J. Kim, I.B. Suh (Chunchon, KR; Chicago, US)*
- P693** **Stress related sleep reactivity depends on metacognition in primary insomnia**  
*L. Palagini, R.M. Bruno, L. Caccamo, M. Mauri, C.L. Drake (Pisa, IT; Detroit, US)*

- P694 The Zurich 3-step concept for the management of behavioural sleep disorders in children: a before and after study**  
*H. Werner, P. Hunkeler, C. Benz, L. Molinari, C. Guyer, F. Häfliger, R. Huber, O. Jenni (Zurich, CH)*
- P695 Guided Internet-delivered cognitive behavioral treatment for insomnia: a randomized trial**  
*A. van Straten (Amsterdam, NL)*
- P696 Empirically deriving distinct insomnia subtypes: The Netherlands Sleep Registry**  
*T. Hoekstra, J. Benjamins, F. Migliorati, J. Twisk, E. van Someren (Amsterdam, NL)*
- P697 Sleep coaching – a new approach in the psychological treatment of insomnia**  
*G. Kloesch, B. Holzinger (Vienna, AT)*
- P698 Discriminating insomniacs from good sleepers on the basis of regional spectral features of high-density electroencephalography during wakefulness**  
*M. Colombo, J. Ramautar, G. Gomez-Herrero, Y. Sweere, C. Cajochen, E. van Someren (Amsterdam, NL; Basel, CH)*
- P699 Effect of erroneous sleep habits upon insomnia and health: data from a national survey**  
*M. Gonçaves, J. Maltez, T. Paiva (Lisbon, Porto, PT)*
- P700 Prevalence of subjective sleep disorders in general practice and morbidities associated with it in urban population of the Republic of Moldova**  
*V. Vovc, L. Catana (Chisinau, MD)*
- P701 An investigation of dysfunctional beliefs as a mediator of cognitive behavioural therapy for insomnia in a sample with insomnia and depression**  
*A. Norell-Clarke, M. Tillfors, M. Jansson-Fröjmark, F. Holländare, I. Engström (Örebro, SE)*
- P702 The role of positive and negative placebo in the objective nap characteristics of good sleepers**  
*E.I. Rasskazova, I.M. Zavalko (Moscow, RU)*
- P703 Decreased plasma orexin levels in subjects with impaired sleep quality**  
*S. Cohrs, M. Goerke, A. Rodenbeck, K. Wiedemann, G. Winterer, D. Riemann, F. Kiefer (Berlin, Freiburg, Hamburg, Magdeburg, Mannheim, Rostock, DE)*
- P704 Visual processing in primary insomnia**  
*E. Giora, A. Galbiati, S. Marelli, L. Ferini-Strambi (Milan, IT)*
- P705 Insomnia and non-restorative sleep**  
*E. Flo, S. Pallesen, B. Bjorvatn (Bergen, NO)*
- P706 Work and sleep – a prospective study of stress, work demands, physical work environment and work scheduling**  
*J. Garefelt, T. Åkerstedt, H. Westerlund, L.L. Magnusson Hansson, M. Sverke, G. Kecklund (Stockholm, SE)*
- P707 The efficacy of cognitive behavioral therapy for insomnia by email follow-up after introductory sessions in person**  
*J.H. Kim (Cheonan, KR)*

**16.15 – 17.45 Sleep disorders – Movement disorders**

Poster Exhibition

- P708 Restless legs syndrome among patients with chronic renal failure on regular hemodialysis**  
*S. Wali, A. Hashimi (Jeddah, SA)*
- P709 Meta-analysis of sleep and cognition in Parkinson's disease: lessons for research design**  
*M.E. Pushpanathan, A.M. Loftus, R.S. Bucks (Bentley, Crawley, AU)*

- P710 Actigraphy as a diagnostic aid for REM sleep behavior disorder in Parkinson's disease**  
*M. Louter, J.B.A.M. Arends, B.R. Bloem, S. Overeem (Heeze, Nijmegen, NL)*
- P711 Restless legs syndrome and post polio syndrome: a case-control study**  
*A. Romigi, M.T. Desiato, F. Izzi, M. Pierantozzi, E. Evangelista, M. Albanese, C. Liguori, N. Mercuri, M. Nazzaro, B. Risina, V. Simonelli, F. Placidi (Naples, Rome, IT)*
- P712 Blink reflex and brainstem auditory evoked response in patients with restless legs syndrome after pramipexole**  
*M. Sandelin, L. Leissner (Örebro, SE)*
- P713 Brain iron accumulation with restless legs syndrome in a donor blood Spanish family**  
*R. Peraita-Adrados, A. Del Castillo, J. Gúzman de Villoria, M.J. Morán Jiménez, L. Lillo-Triguero, A. Guillem (Madrid, ES)*
- P714 A cross sectional study of restless leg syndrome in Iranian hemodialysis patients**  
*F. Chavoshi, K. Sadeghniaat-Haghighi, M. Saraei, O. Zamani (Tehran, IR)*
- P715 Comparison of restless legs syndrome patients and healthy controls: differences in biomarkers and comorbid conditions**  
*S. Virolainen, M. Partinen, T. Eller, V. Vasar (Tartu, EE; Helsinki, FI)*
- P716 Predictors for the persistence of symptoms of restless legs syndrome after iron replacement**  
*S.Y. Youn, H.S. Shon, C.S. Lee, T. Kim, I.-Y. Yoon (Gyeonggi-do, Seoul, KR)*
- P717 EEG high frequencies and hyperarousal during the sleep onset period in patients with restless legs syndrome**  
*R. Ferri, F.I. Cosentino, M. Manconi, F. Rundo, O. Bruni, M. Zucconi (Milan, Rome, Troina, IT; Lugano, CH)*
- P718 Restless legs syndrome in the general population – how often is there an association with distress and disturbed sleep?**  
*B. Benediktsdottir, E.S.S. Arnardottir, E. Bjornsdottir, T. Gislason (Reykjavik, IS)*
- P719 Late soleus response in restless legs syndrome**  
*Ö. Parlak, Öztura, B. Baklan (Izmir, TR)*
- P720 Is autonomic nervous system involved in restless legs syndrome during wakefulness?**  
*F. Izzi, F. Placidi, A. Romigi, B. Lauretti, G.A. Marfia, M.G. Marciani, N.B. Mercuri, C. Rocchi (Rome, IT)*
- P721 Respiratory-related leg movements: what is the evidence behind the rules**  
*S. Fulda, I. Zavalco, M. Manconi (Lugano, CH; Moscow, RU)*
- P722 Predominant PLMs (periodic leg movements) in the first cycle of sleep in restless legs syndrome (RLS)**  
*A. Ghika, A. Kyrozi, D. Dikeos, E. Vagiakis, A. Bonakis (Athens, GR)*
- P723 Periodic limb movements and sleep architecture in RLS patients**  
*M. Sieminski, M. Partinen (Gdansk, PL; Helsinki, FI)*
- P724 Presence of restless leg syndrome and iron deficiency among third trimester of pregnant women in a Japanese urban clinic**  
*Y. Yamaguchi, H. Eto, Y. Oka (Ehime, Nagasaki, JP)*
- P725 Association between impulsive-compulsive behaviors and REM sleep behavior disorder in Parkinson's disease: a video-polysomnographic study**  
*M.L. Fantini, M. Figorilli, P. Beudin, A. Marques, B. Debilly, P.P. Derost, M. Ulla, N. Vitello, T. Vidal, M. Puligheddu, A. Cicolin, F. Durif (Clermont-Ferrand, FR; Cagliari, Turin, IT)*

- P726 Restless legs syndrome in Czech pregnant women: an epidemiological and genetic study**  
*D. Kemlink, Z. Šrůtková, L. Plchová, J. Pavlíčková, A. Pařízek, K. Šonka, S. Nevšimalová, B. Schormair, J. Winkelmann (Praha, CZ; Munchen, DE)*
- P727 Comparison between automatic and visual scoring methods of muscle tone during rapid eye movement sleep in Parkinson's disease**  
*M.L. Fantini, M. Figorilli, A. Marques, P. Beudin, M. Puligheddu, F. Durif, R. Ferri (Clermont-Ferrand, FR; Cagliari, Troina, IT)*
- P728 Prevalence and characteristics of periodic leg movements during sleep in the general population: the Hypnolaus study**  
*J. Haba-Rubio, H. Marti-Soler, D. Andries, N. Tobback, M. Tafti, R. Heinzer (Lausanne, CH)*
- P729 Reversible restless legs syndrome in a patient treated with successful kidney transplantation**  
*M. Albanese, F. Placidi, A. Romigi, C. Liguori, A. Marchi, M.G. Marciani, N.B. Mercuri, F. Izzi (Rome, IT)*
- P730 Rhythmic masticatory muscle activity frequency in children**  
*N. Huynh, E. Desplats, A. Bellerive (Montreal, CA)*
- P731 Polysomnographic study in symptomatic Huntington Disease**  
*C. Piano, A. Losurdo, D. Viridis, I. Quintiliani, M. Solito, A.R. Bentivoglio, P. Cortelli, G. Della Marca (Bologna, Rome, IT)*
- P732 Sleep disturbances in essential tremor and Parkinson's disease: a polysomnographic study**  
*B. Barut, N.F. Tascilar, A. Varol (Zonguldak, TR)*
- P733 Symptom severity of primary restless legs syndroms is not determined by serum ferritin level**  
*W.C. Shin, S. Byun, K.J. Hwang (Icheon, Seoul, KR)*
- P734 Assessment of severity and therapeutical response in 70 patients with idiopathic and symptomatic form of restless leg syndrome**  
*A. Simeonova, N. Neykov, V. Toncheva, I. Stoyanov, G. Savov, V. Vutova, N. Mihnev, M. Mihov, E. Dimitrova, P. Dacheva, D. Jancheva, I. Staikov (Sofia, BG)*
- P735 Predictors of multiple sleep latency test findings in Parkinson's disease**  
*S.A.M. Winkler, R. Taddei Garcia, E. Werth, C. Baumann, P. Valko (Zurich, CH)*
- P736 REM sleep behavior disorder in Parkinson's disease as a predictor of cognitive decline**  
*E.A. Lyashenko, M.G. Poluektov, O.S. Levin (Moscow, RU)*

**16.15 – 17.45 Psychiatric and behavioural disorders and sleep**

Poster Exhibition

- P737 Sleep patterns in adults with a diagnosis of high-functioning autism spectrum disorder: a preliminary analysis**  
*E. Baker, A. Richdale (Bundoora, AU)*
- P738 Sleep complaints in adolescent depression: one year naturalistic follow-up study**  
*A.S. Urrila, L. Karlsson, O. Kiviruusu, M. Pankakoski, M. Pelkonen, T. Strandholm, M. Marttunen (Helsinki, FI)*
- P739 The subjective effect of quetiapine monotherapy on sleep and daytime sleepiness in acute manic patients**  
*B.-H. Yoon, W.-M. Bahk, K.-J. Min, J.G. Lee, S.-Y. Lee, D.-I. Jon, Y.-J. Kwon, K.H. Lee, S.-K. Chung, M.-D. Kim (Anyang, Busan, Cheonan, Gyeongju, Iksan, Jeju, Jeonju, Naju, Seoul, KR)*

- P740** **Obstructive sleep apnea severity, heart rate variability and depression symptoms**  
*N.-S. Shams-Hosseini, O. Aminian, K. Sadeghniaat-Haghighi (Tehran, IR)*
- P741** **Sleep duration and serotonin transporter promoter gene polymorphism in the Palanga community cohort**  
*J. Harro, A. Podlipskyte, M. Vaht, G. Varoneckas (Tartu, EE; Palanga, LT)*
- P742** **Sleep structure and emotional memory processing in police officers and combat veterans with PTSD**  
*W.F. Hofman, M. de Boer, M.J. Nijdam, R.A. Jongedijk, M. Olf, L.M. Talamini (Amsterdam, Diemen, NL)*
- P743** **A meta-analysis and model of the relationship between sleep and depression in adolescents**  
*N. Lovato, M. Gradisar (Adelaide, AU)*
- P744** **The effects of acupuncture treatment on sleep quality and on emotional measures among individuals living with schizophrenia**  
*I. Haimov, B. Bloch, L. Vadas, S. Ravid, I. Kremer, A. Reshef (Afula, Emek Yezreel, IL)*
- P745** **Chronic sleep reduction and psychopathology symptoms in adults with high-functioning autism spectrum disorder**  
*E. Baker, A. Richdale (Melbourne, AU)*
- P746** **Attention deficit hyperactivity symptoms, sleepiness and near-misses driving accidents among a population of French highway drivers**  
*S. Bioulac, J. Tailard, M.-A. Quéra-Salva, P. Sagaspe, P. Philip (Bordeaux, Garches, FR)*
- P747** **Sleep spindles as biomarkers of memory dysfunction in schizophrenia**  
*R. Göder, S. Weinhold, A. Graf, F. Ballhausen, A. Prehn-Kristensen, K. Junghanns, P.C. Baier (Kiel, DE)*
- P748** **Slow wave sleep, memory and long-term outcome in patients with schizophrenia**  
*R. Göder, C. Bethke-Jänicke, S. Weinhold, P.C. Baier (Kiel, DE)*
- P749** **Poor sleep is a potential risk factor for aggressive/violent behaviour**  
*J. Kamphuis, M. Lancel (Assen, NL)*
- P750** **Sleep, depression and physical illness in Korean elderly**  
*B. Nam, B. Lee (Chungju, KR)*
- P751** **Subjective sleep quality and excessive daytime sleepiness in attention-deficit/hyperactivity disorder in adults**  
*C. Sauter, E. Ahlers, M. Colla, D. Langner, L. Gentschow, H. Danker-Hopfe (Berlin, DE)*
- P752** **Sleep disturbances and psychotic-like experiences in a student population**  
*K. Porcheret, B. Sheaves, C.A. Espie, R.G. Foster, D. Freeman, P.J. Harrison, K. Wulff, G.M. Goodwin (Oxford, GB)*
- P753** **PTSD associated effects on obstructive sleep apnea and restless legs in the survivors from the Norwegian terror 22/7 2011 attack on Utøya**  
*J. Gronli, O.T. Ousdal, A.M. Milde, S. Pallesen, T. Endestad, A.M. Melinder (Bergen, Oslo, NO)*
- P754** **High rates of psychiatric comorbidity in narcolepsy: findings from the burden of narcolepsy disease (BOND) study of 9,312 patients in the United States**  
*J. Black, N. Reaven, S. Funk, K. McGaughey, M. Ohayon, C. Guilleminault, C. Ruoff (La Canada, Palo Alto, San Luis Obispo, US)*
- P755** **Effects of bright light therapy on the hospital employees with depressive symptoms and/or daytime sleepiness**  
*J. Miura, S. Yokouchi, T. Yuasa, S. Yamaguchi, T. Matsuki, T. Ashie, K. Yamagami, Y. Aizu, H. Sasaki (Murooran, JP)*

- P756 Adolescents diagnosed with depression and their unaffected siblings show a different topographical distribution of sleep slow wave activity compared to healthy controls**  
*N. Tesler, M. Gerstenberg, A. Preiss, M. Franscini, O.G. Jenni, S. Walitza, R. Huber (Zurich, CH)*
- P757 The effect of total sleep time on cognitive conflict adaptation in healthy adolescents**  
*S. Reyes, C. Algarín, B. Lozoff, P. Peirano (Santiago, CL; Ann Arbor, US)*
- P758 Insomnia and personality disorders: a pilot study**  
*S. Marelli, A. Galbiati, E. Giora, L. Giarolli, A. Gasperi, M. Zucconi, L. Ferini-Strambi (Milan, IT)*
- P759 Examining the association between basic psychological need satisfaction and sleep-related outcomes in clinical populations**  
*R. Campbell, M. Vansteenkiste, L.M. Delesie, A.N. Mariman, B. Soenens, E. Tობback, D.P. Vogelaers (Ghent, BE)*

**16.15 – 17.45 Sleep and aging**

Poster Exhibition

- P760 Nocturia is associated with poor sleep quality in elderly patients with diabetes mellitus, hypertension and hyperlipidemia**  
*G.S.H. Chiang, B.L.H. Sim, J.J.M. Lee, J.H.M. Quah (Singapore, SG)*
- P761 Association of sleep complaints with cardiovascular and all-cause mortality in the Palanga community cohort in the period of 2003-2013**  
*A. Podlipskyte, J. Andruskiene, A. Martinkenas, G. Varoneckas (Palanga, LT)*
- P762 Prevalence of sleep complaints in the Palanga community cohort in the period of 2003-2013**  
*J. Andruskiene, A. Podlipskyte, A. Martinkenas, G. Varoneckas (Palanga, LT)*
- P764 Hormonal-metabolic parameters in perimenopausal women with sleep disorders**  
*N. Semenova, I. Madaeva, L. Kolesnikova, O. Berdina, E. Solodova, L. Sholokhov (Irkutsk, RU)*
- P765 Retrospective study of sleepiness and vigilance in OSAS older patients**  
*P. Deblois, H. Khemliche, N. Zrek, F. Bour, M.-C. Ouayoun (Gonesse, Senlis, Sevran, FR)*
- P766 Sleep complaints and metabolic syndrome in an elderly population: the three-city study**  
*I. Jaussent, T. Akbaraly, A. Besset, M. Bertrand, P. Barberger-Gateau, K. Ritchie, J.E. Ferrie, M. Kivimaki, Y. Dauvilliers (Bordeaux, Montpellier, FR; London, GB)*
- P767 Effect of age on the macro- and microstructure of sleep in women**  
*J. Schwarz, E. Lindberg, G. Gruber, H. Fischer, J. Theorell-Hagloew, T. Akerstedt (Stockholm, Uppsala, SE; Vienna, AT)*
- P768 What does good sleep mean in terms of macro and microstructure of sleep in women and how does age affect this relation?**  
*T. Åkerstedt, E. Lindberg, G. Gruber, J. Theorell-Haglöw, J. Schwarz (Stockholm, Uppsala, SE; Vienna, AT)*
- P769 Polysomnographic data in patients with isolated memory complaints or mild cognitive impairment**  
*P. Sagaspe, J. Taillard, C. Chauton, C. Berthomier, M. Brandewinder, H. Amiéva, J.-F. Dartigues, P. Philip (Bordeaux, Paris, FR)*
- P770 The feasibility of trialling non-pharmacological interventions for improving the sleep of community dwelling people with dementia**  
*R.H. Gibson, P.H. Gander, A. Dowell, L.M. Jones (Wellington, NZ)*

- P771 Relationship between age and duration event number respiratory syndrome in patients with sleep apnea-hypopnea**  
*P.M. Lazo Meneses, E. Mañas Baena, C. Gotera Rivera, D. Barrios Barreto, J. García Leaniz (Madrid, ES)*
- P772 Fatigue/sleepiness and important aspects of sleep restoration improve across aging**  
*T. Åkerstedt, L. Alfredsson, P. Westerholm, H. Fischer, L.-G. Nilsson, M. Nordin (Stockholm, Umeå, Uppsala, SE)*
- P773 Self-reported sleep satisfaction in elderly predicts self-reported sleep satisfaction over 18 but not over 48-months**  
*M. Ulander, A. Brostrom, U. Alehagen, Å. Wahlin, P. Johansson (Jönköping, Linköping, SE)*
- P774 Correlates of self-reported short sleep, long sleep and sleep sufficiency index in home-dwelling elderly subjects**  
*M. Ulander, A. Brostrom, Å. Wahlin, U. Alehagen, P. Johansson (Jönköping, Linköping, SE)*
- P775 Fall accidents and actigraphy in nursing home**  
*J. Merilahti, P. Viramo, I. Korhonen (Oulu, Tampere, FI)*
- P776 Sleep microstructure in frontotemporal dementia is equally or even more disturbed compared to that in Alzheimer's disease: a sleep spindle study**  
*N.-T. Economou, P. Ktonas, A. Bonakis, A. Konsta, T. Paparrigopoulos, D. Dikeos, E. Vagiakis, S. Papageorgiou, E.C. Ventouras (Athens, GR)*

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**16.15 – 17.45 Healthcare services, research and education** Poster Exhibition

- P777 Characteristics and trends in hypnotics consumption in the largest health care in Israel**  
*O. Marom, G. Rennart, G. Pillar (Haifa, IL)*
- P778 No law for sleep. Preliminary results from a national survey about sleep patterns in portuguese lawyers**  
*M. Meira e Cruz, I. Duarte (Lisbon, PT)*
- P779 Self perceived sleepiness and risk of obstructive sleep apnea syndrome among cuban health related professionals**  
*M. Meira e Cruz, I. Duarte, A. Gallardo, Y. Rosales-Mesa (Lisbon, PT; Havana, Santa Clara, CU)*
- P780 An educational intervention to mitigate sleepiness in road transport**  
*M. Sallinen, M. Pylkkönen, H.-K. Hyvärinen, S. Puttonen, M. Sihvola (Helsinki, FI)*
- P781 Difficulties in treating sleep problems reported by counsellors working with survivors of sexual assault**  
*J. Darvell, D. Bruck, G. Kennedy (Melbourne, AU)*
- P782 How is tatarstan sleeping?**  
*E.Z. Yakupov, Y.V. Troshina (Kazan, RU)*
- P783 Reduction of intensive care unit (ICU) simulated noise's effect on the nap by earplugs**  
*M. Nakai, H. Arakawa, Y. Kojima, T. Kobayashi, O. Mandai (Ashikaga-shi, Fukaya-shi, JP)*
- P784 Sleep disturbances, daytime sleepiness and symptoms of sleep apnea syndrome in first year medical students**  
*O.V. Lyshova, V.F. Lyshov (Voronezh, RU)*
- P785 Sleep and health related quality of life in Georgian population**  
*N. Darchia, M. Eliozishvili, M. Supatashvili, N. Oniani, T. Basishvili, I. Sakhelashvili, K. Cervena (Tbilisi, GE; Bremen, DE; Geneva, CH)*

- P786 Alertness, chronic fatigue, and actigraphic sleep between working and off days among nurses under fixed shifts**  
*W.-C. Liao, S.-C. Chung, C.-P. Kuo (Taichung, Taoyuan, TW)*
- P787 Diagnostic models for obstructive sleep apnea in the Australian community: observations from pharmacy-based CPAP providers**  
*C.A. Hanes, K.K.H. Wong, B. Saini (Sydney, AU)*
- P788 Short sleep is associated with increased hospitalization episodes: results from the 2005-2006 US National Health and Nutrition Examination Survey (NHANES)**  
*N. Covassin, K. Sahakyan, F. Lopez-Jimenez, V.K. Somers (Rochester, US)*
- P789 The somnonet portal – an open source online tool for assessing quality of structure and process in sleep laboratories**  
*A. Rodenbeck, T. Penzel, A. Blau, S. Canisius, J. Drepper, M. Glos, M. Harbacj, R. Siewert, M. Smith, J. Wu (Berlin, Hannover, DE)*
- P790 What do UK junior doctors' know about sleep disorders? A systematic literature review**  
*S. Khan (Guildford, GB)*
- P791 Is the quality of portable sleep monitoring the same using hook-up video instructions as for in-clinic hook-up instructions?**  
*A.G. Sigurðardóttir, T. Gíslason, E.S. Arnardóttir (Reykjavík, IS)*
- P792 Sleep quality in Sweden: are there differences from north to south and between native and foreign born residents?**  
*A. Nizamani, M. Hunsberger, G. Bader (Gothenburg, SE)*
- P793 Large scale sleep evaluation made possible by mobile technology and fitness heart rate monitors**  
*A. Baharav, S. Eyal (Petach Tiqva, IL)*
- P794 How bad is the sleep-wake cycle on first year medical students?**  
*A.M. Lima, F.F. Kolodiuk, L.G.F. Ferreira, M.A.L. Miguel, J.F. Araujo (Natal, BR)*



- P795 The participation of chaperone Hsp70 in sleep modulation in rats**  
*V. Simonova, M. Guzeev, I. Ekimova, Y. Pastukhov (Saint Petersburg, RU)*
- P796 Sleep and wakefulness duration and distribution are regulated by MAPK2 and MAPK3 phosphorylation**  
*C. Mikhail, A. Vaucher, M. Tafti (Lausanne, CH)*
- P797 Changes in potassium channel genes expression during spontaneous sleep-wake cycle and sleep deprivation**  
*O. Ventskovska, H.-K. Wigren, T. Stenberg (Helsinki, FI)*
- P798 The effect of maternal sleep on epigenome of newborn**  
*A.-J. Ämmälä, J. Alasaari, J. Liuhanen, J. Paavonen, O. Saarenpää-Heikkilä, T. Stenberg, A. Kylliäinen, P. Pölkki, A. Metspalu, T. Paunio (Helsinki, Kuopio, Tampere, FI; Tartu, EE)*
- P799 Circadian clock genes, insomnia, sleepiness and shift work disorder**  
*E. Thun, S. Le Hellard, T. Osland, B. Bjorvatn, B.E. Moen, N. Magerøy, S. Pallesen (Bergen, NO)*
- P800 Epigenetic fingerprint of stress in a Finnish shift-working occupational cohort**  
*J. Alasaari, A.-J. Ämmälä, M. Kivimäki, J. Vahtera, M. Härmä, S. Puttonen, K. Silander, V. Salomaa, M. Perola, T. Paunio (Helsinki, FI)*
- P801 Genetic influences on total sleep duration in babies at 8-months: preliminary findings**  
*K. Kantojärvi, J. Jaatela, O. Saarenpää-Heikkilä, J. Paavonen, A. Kylliäinen, P. Pölkki, T. Porkka-Heiskanen, T. Paunio (Helsinki, Kuopio, Tampere, FI)*
- P802 In vitro generation of dynorphin, NARP and MCH expressing neurons from mouse fibroblasts**  
*A. Seifinejad, M. Tafti (Lausanne, CH)*

- P803 Uncorrelated sleep-related activity in the avian hippocampus and nidopallium**  
*J. van der Meij, N.C. Rattenborg, T.V. Smulders, G.J.L. Beckers (Seewiesen, DE; Newcastle, GB; Utrecht, NL)*
- P804 Peripubertal diet-induced obesity impairs sleep quality through changes in the dopaminergic system during aging in mice**  
*M. Gazea, A.V. Patchev, E. Leidmaa, C. Flachskamm, O.F. Almeida, M. Kimura (Munich, DE)*
- P805 The Gln460arg polymorphism of the P2RX7 gene affects human sleep**  
*M. Adamczyk, E. Friess, M. Uhr, A. Steiger (Munich, DE)*
- P806 Artefact correction of sleep electroencephalographic recordings during arterial spin labelling-magnetic resonance imaging based on independent component analysis**  
*L. Tüshaus, T. Koenig, M. Kottlow, P. Achermann (Bern, Zurich, CH)*
- P807 The associations between adolescent sleep, diurnal cortisol patterns and cortisol reactivity to dexamethasone suppression test**  
*A.-K. Pesonen, S. Martikainen, K. Räikkönen (Helsinki, FI)*

- P808 Modulation of hypothalamic MCH-expressing neurons by pharmacogenetic tools strongly alters the sleep-waking cycle in mice**  
C.G. Varin, S. Arthaud, Y. Chérasse, M. Lazarus, T. Gallopin, P.-H. Luppi, P. Fort (Lyon, Paris, FR; Tsukuba, JP)
- P809 Effects of rocking movements on sleep onset and memory performance**  
X. Omlin, F. Crivelli, L. Heinicke, J. Skorucak, A. Malafeev, A. Fernandez, R. Riener, P. Achermann (Zurich, CH)
- P810 Corticotropin-releasing hormone receptors-2 mutation in the dorsal raphe neurons increases sleep and stress-coping behaviour in mice**  
D. Kumar, A. Kolarz, C. Flachskamm, J.M. Deussing, M. Kimura (Munich, DE)
- P811 Comparison of transcranial magnetic stimulation evoked electroencephalography potentials between waking and non-rapid eye movement sleep states**  
M. Vasser, J. Aru, T. Bachmann (Tartu, EE)
- P812 Defining the role of specific neuronal populations of the basal forebrain in sleep-wake behaviour using opto-dialysis: a novel method combining optogenetics and in vivo microdialysis**  
J.C. Zant, T. Kim, A. Kalinchuk, C. Yang, R.E. Brown, J.M. McNally, S. Thankachan, J.T. McKenna, R.E. Strecker, R.W. McCarley, R. Basheer (Boston, Brockton, US)
- P813 Repetitive activations of lateral and perifornical hypothalamic regions elevate CSF OrexinA content and fasten sleep-wakefulness recovery from experimentally induced comatose state**  
N. Nachkebia, E. Chkhartishvili, O. Mchedlidze, N. Maglakelidze, S. Dzadzamia, V. Tsomaia, M. Babilodze, E. Chijavadze (Tbilisi, GE)
- P814 Characterisation of the role of extrasynaptic GABAA receptors in sleep and mood regulation in a rodent model**  
G.M. Stenson, M. Nollet, R. Winsky-Sommerer (Guildford, GB)
- P815 Repetitive activation of lateral and perifornical hypothalamus regions elevate CSF OrexinA content and fasten recovery of normal sleep cycles from deep anesthesia induced sleep**  
N. Maglakelidze, E. Chkhartishvili, E. Chijavadze, S. Dzadzamia, M. Babilodze, O. Mchedlidze, N. Nachkebia (Tbilisi, GE)
- P816 State-dependencies of auditory evoked potentials during NREM sleep disclose their neurophysiological origins**  
A. Karashima, M. Nakao, N. Katayama (Sendai, JP)
- P817 Indications that the EphA4 receptor regulates sleep in mice**  
M. Freyburger, A. Pierre, E. Belanger-Nelson, V. Mongrain (Montreal, CA)

**17.15 – 18.45 Comparative and evolutionary studies**

Poster Exhibition

- P818 Bird-like propagating sleep-related brain activity in Nile crocodiles**  
R.K. Tisdale, J.A. Lesku, G.J.L. Beckers, N.C. Rattenborg (Seewiesen, DE; Melbourne, AU; Utrecht, NL)
- P819 Sleep disorders in population in Novosibirsk (Russia)**  
I. Gagulin, V. Gafarov, E. Gromova, D. Panov (Novosibirsk, RU)
- P820 Insomnia symptoms and all-cause and cardiovascular mortality: a prospective register-based study among Finnish and Lithuanian adults**  
T. Lallukka, J. Andruskiene, A. Podlipskyte, G. Varoneckas, O. Rahkonen (Helsinki, FI; Kaunas, LT)
- P821 Investigation about the cultural context in preferred bed position: an ethological approach**  
P. Brugailleres, J.F. Araujo (Rennes, FR; Natal, BR)

- P822 The timing of daytime sleep episodes between 12-h night shifts does not affect neurobehavioural performance**  
*A. Kosmadopoulos, X. Zhou, G.D. Roach, D. Darwent, C. Sargent (Wayville, AU)*
- P823 Noninvasive detection of sleep/wake changes in orexin/ataxin-3 transgenic narcoleptic mice across the disease onset**  
*Y. Sagawa, M. Sato, S. Sato, A. Imanishi, T. Kanbayashi, T. Shimizu, S. Nishino (Akita, JP; Palo Alto, US)*
- P824 NREM sleep is increased in high-aggressive, but not in non-aggressive rats by an immune challenge**  
*L. Imeri, L. Carnevali, S. Bianchi, A. Sgoifo (Milan, Parma, IT)*
- P825 Evoked K-complexes as a dynamic interplay between cortical wake-like excitation, large-scale resetting hyperpolarization, and thalamic patterning: a high-density EEG study of human NREM sleep**  
*D. Menicucci, M. Laurino, A. Piarulli, F. Mastorci, P. Allegrini, A. Gemignani (Pisa, IT)*
- P826 Stop and revive? The effectiveness of nap and active rest breaks for reducing drivers sleepiness**  
*C.N. Watling, S.S. Smith, M.S. Horswill (Brisbane, AU)*
- P827 On-road driver sleepiness: what are Australian drivers experiences and awareness of sleepiness while driving?**  
*C.N. Watling, A. Wilson, K.A. Armstrong, S.S. Smith (Brisbane, AU)*
- P828 Academic performances in adolescents with behaviorally-induced insufficient sleep syndrome**  
*S.J. Kim, J. Park, S. Kim, Y.J. Lee (Seoul, KR)*
- P829 Daytime nap: restores performance parameters and is not affected by mental fatigue**  
*A.N. Puchkova, O.N. Tkachenko, A.O. Taranov, V.B. Dorokhov (Moscow, RU)*
- P830 The morningness-eveningness preference and the temperament and character in Koreans without any Axis I psychiatric disorder**  
*I. Sohn (Uiwang, KR)*
- P831 What is the relationship between natural variations in sleep duration and emotion recognition ability?**  
*T. Sundelin, P. Laukka, H. Fischer, J. Axelsson (Stockholm, SE)*
- P832 An experimental study comparing the effects of reading on an Ipad or in a book on polysomnographic-assessed sleep**  
*I.K. Byrkjedal, S. Pallesen, B. Bjorvatn, Ø.O. Nødtvedt, J. Grønli (Bergen, NO)*
- P833 What makes adolescents suicidal? The role of sleep**  
*M. Zschoche, A.A. Schlarb (Bielefeld, DE)*
- P834 Cage exchange does not disturb sleep in the rat on a 24-h basis**  
*F. Del Vecchio, R. Amici, M. Cerri, A. Di Cristoforo, T. Hitrec, M. Luppi, E. Perez, G. Zamboni (Bologna, IT)*
- P835 Sleep and brain activity after early life stress in female rats**  
*J. Mrdalj, S. Pallesen, R. Ursin, J. Grønli (Bergen, NO)*
- P836 Validating and extending the three process model (TPM) of alertness in airline operations**  
*M. Ingre, W. Van Leeuwen, T. Klemets, C. Ullvetter, S. Hough, G. Kecklund, D. Karlsson, T. Åkerstedt (Arlanda, Göteborg, Norrköping, Stockholm, SE)*
- P837 Greek financial crisis: from loss of money to loss of sleep?**  
*E. Nena, D. Tsavlis, D. Kougkas, N. Papanas, T.C. Constantinidis, P. Steiropoulos (Alexandroupolis, GR)*

- P838 The interplay between habitual sleep duration and sleep need in risky decision-making**  
*E.Y.W. Lee, K.N.T. Lau, M.L. Wong, C.H. Tseng, E.Y.Y. Lau (Hong Kong, HK)*
- P839 Sleep and risk of accidents and injuries of adolescents attending classes in two rotating shifts**  
*B. Radosevic-Vidacek, A. Koscec, M. Bakotic (Zagreb, HR)*
- P840 Sleeping with dogs – results of an internet-based survey**  
*G. Kloesch, M. Kemethofer, L. Wallis, S. Seidel, J.P. Dittami (Vienna, AT)*
- P841 Absence of rapid eye movements during sleep in zebrafish**  
*K. Karlsson, B.B. Arnason, H. Þorsteinsson (Reykjavik, IS)*

**17.15 – 18.45 Sleep deprivation 2**

Poster Exhibition

- P842 Mechanically controlled REM sleep deprivation yields non-REM sleep fragmentation and selectively reveals REM sleep-related brain structures in mice**  
*M. Kimura, M. Gazea, D. Kumar, S. Voule, C. Flachskamm (Munich, DE)*
- P843 Sleep slow-wave activity predicts changes in human cortical excitability during extended wakefulness**  
*G. Gaggioni, J.Q.M. Ly, D. Coppieters't Wallant, V. Muto, C. Borsu, S. Papachilleos, A. Brzozowski, S. Sarasso, M. Rosanova, S.N. Archer, P. Maquet, D.-J. Dijk, C. Phillips, M. Massimini, G. Vandewalle, S.L. Chellappa (Liège, BE; Milano, IT; Guildford, GB)*
- P844 Modification of sleep architecture, microsleeps, subjective sleepiness and maintenance of wakefulness capacities during a week of sleep restriction**  
*C. Bougard, A. Rabat, G. Dispersyn, P. Arnal, C. Drogou, F. Sauvet, P. Van Beers, M. Guillard, V. Bayon, D. Léger, M. Chennaoui (Bretigny sur Orge, Paris, FR)*
- P845 Driving while fatigued in slippery road conditions – a neglected issue**  
*I. Radun, M. Wahde, M. Ingre, J. Radun, O. Benderius, G. Kecklund (Göteborg, Stockholm, SE; Helsinki, FI)*
- P846 Sleep deficit and sleep problems, the main concern to shift workers with disruptive schedules. A fatigue issue?**  
*C. Reis, C. Mestre, T. Paiva (Lisbon, PT)*
- P847 Sleep and fatigue study in flight attendants of a Portuguese commercial airline**  
*M. Serra Brandão, T. Paiva, H. Rebelo Pinto (Lisboa, PT)*
- P848 Vascular response to 1-week sleep restriction. A metabolic response?**  
*M. Chennaoui, C. Drogou, C. Bougard, P. Arnal, G. Dispersyn, P. Van Beers, M. Guillard, C. Bourrilhon, A. Rabat, B. Faraut, D. Léger, F. Sauvet (Bretigny sur Orge, Paris, FR)*
- P849 Objective sleepiness in young and older adults during 3-weeks of chronic sleep restriction**  
*K.-M. Zitting, S.W. Cain, M.Y. Münch, W. Wang, J.M. Ronda, C.A. Czeisler, J.F. Duffy (Boston, US)*
- P850 Sleep loss negatively affects employability and perceived leadership skills**  
*T. Sundelin, J. Axelsson (Stockholm, SE)*
- P851 Sleep deprivation reduces the long latency startle response in zebrafish**  
*A. Lintulahti, V. Aho, M. Vainikka, H. Puttonen, P. Panula, T. Porkkanen-Heiskanen, H.-K. Wigren (Helsinki, FI)*
- P852 Acute total sleep deprivation potentiates cocaine-induced hyperlocomotion in mice**  
*L.F. Berro, R. Santos, A.W. Hollais, R. Wuo-Silva, D.F. Fukushima, E. Mári-Kawamoto, J.M. Costa, T.F. Trombin, C.L. Patti, S.B. Grapiglia, S. Tufik, M.L. Andersen, R. Frussa-Filho (São Paulo, BR)*
- P853 Effects of sleep deprivation on behavioural laterality in mice**  
*N. Cui, R. Dore, V.V. Vyazovskiy (Oxford, GB)*

- P854 Efficient paradoxical (REM) sleep homeostatic regulation in mice: reports on sleep architecture and neuronal activation**  
*S. Arthaud, C. Varin, P.-A. Libourel, P. Fort, P.-H. Luppi, C. Peyron (Lyon, FR)*
- P855 Does more sleep matter? Differential effects of NREM- and REM-dominant sleep on sleepiness and vigilance**  
*D. Neu, O. Mairesse, J. Newell, P. Verbanck, P. Peigneux, G. Deliens (Brussels, BE)*
- P856 Changes in anxiety, affect, and emotion regulation among sleep-restricted healthy adolescents: an experimental investigation**  
*R. Reddy, C. Jackson, D. Talavera, C.A. Alfano (Houston, US)*
- P857 Chronic partial sleep deprivation affects event-related potentials evoked by a saccadic task**  
*H. Oginska, E. Beldzik, A. Domagalik, M. Fafrowicz, T. Marek (Krakow, PL)*
- P858 Sleepiness at the wheel in European truck drivers**  
*R. Sauvagnac, F. Barbot, S. Hartley, I. Vaugier, P. Philip, M.-A. Quera-Salva (Bordeaux, Garches, FR)*
- P859 Severe sleepiness and insufficient sleep in connection with different shift types: results from a field study in road freight transport**  
*M.M. Pylkkönen, M. Sallinen, H.K. Hyvärinen, S. Puttonen, M. Sihvola (Helsinki, FI)*
- P860 Sleepiness and vigilance during on-the-road driving: a behavioral and physiological investigation of time on task and sleep deprivation effects**  
*J. Perrier, S. Jongen, E. Vurman, M.L. Bocca, J.G. Ramaekers, A. Vermeeren (Maastricht, NL; Caen, FR)*
- P861 Sleep insufficiency among Korean adolescent students: from 9th Korea Youth Risk Behavior Web-based Survey (KYRBS) 2013**  
*P. Song, K.-Y. Jung (Gyeonggi-do, Seoul, KR)*
- P862 Inter-individual differences in the tolerance to sleep deprivation: the effects of circadian flexibility**  
*N. Marcoen, N. Pattyn, M. Vandekerckhove, O. Mairesse (Brussel, Brussels, BE)*
- P864 Individual variability of EEG patterns in drowsiness**  
*O.N. Tkachenko (Moscow, RU)*
- P865 Obstructive sleep apnea syndrome and sleep disturbances among Brazilian airline pilots**  
*E.C. Marqueze, A.C. Nicola, D.H. Diniz, C.R. Moreno (Santos, São Paulo, BR)*
- P866 Sleep-related crashes in urban, low speed environments**  
*A. Filtness, K. Armstrong, A. Watson (Kelvin Grove, AU)*

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**17.15 – 18.45 Sleep disorders – Breathing 3**

Poster Exhibition

- P867 Decrease of respiratory events in patients with OSAS, using a mandibular advancement device (MAD), assessed with split night polysomnography, in a Mexican population**  
*E.P. García-Campos, A. Labra, L. Galicia-Polo, R. Haro-Valencia, F. Sánchez-Narváez, L. Correa (México, MX; Boston, US)*
- P868 Non-intrusive apnoea / hypopnoea detection system via graph-signal analysis of Microsoft Kinect captured depth video**  
*C. Yang, Y. Mao, G. Cheung, V. Stankovic, K. Chan (Glasgow, GB; Tokyo, JP; Sydney, AU)*
- P869 Prevalence and risk factors of snoring habitual among the Saudi population**  
*S. Wali, B. Abalkhial, H. Al-Motary, I. Ahmad, A. Krayem (Jeddah, SA)*

- P870 Obstructive sleep apnea, hypothyroidism and cognition**  
*E. Di Coscio, M. Maestri, L. Carnicelli, I. Ricco, C. Pagni, R. Silvestri, F. Aghini Lombardi, G. Tognoni, U. Bonuccelli, E. Bonanni (Messina, Pisa, IT)*
- P871 Persistent sleepiness after CPAP treatment in obstructive sleep apnea patients**  
*M. Pujol, F. Cruz, A. Guardia, J. March, F. Barbé (Lleida, ES)*
- P872 Intermittent hypoxia induced genioglossal contractile dysfunction can be alleviated by adiponectin**  
*X. Zhang (Nanjing, CN)*
- P873 Adiponectin protects the genioglossus of rats against chronic intermittent hypoxia-induced injury via inhibition of endoplasmic reticulum stress**  
*X. Zhang (Nanjing, CN)*
- P874 Treatment decisions among 175 participants of Akershus sleep apnoea project (ASAP) with obstructive sleep apnoea**  
*H. Hrubos-Strøm, S. Mitic, E. Lie (Lørenskog, NO)*
- P875 The role of compliance with positive airway pressure use on blood pressure in patients with obstructive sleep apnea**  
*I. Bouloukaki, K. Giannadaki, C. Mermigkis, E. Mauroudi, N.M. Siafakas, S.E. Schiza (Heraklion, GR)*
- P876 A non-invasive technique to detect respiratory effort during sleep**  
*G. Brouwers, N. Vandenbussche, H. van Dijk, S. Overeem, D. Pevernagie, P. Cluitmans (Eindhoven, Heeze, NL)*
- P877 A case-control study: the influence of smoking intensity on quality of sleep in a population of obstructive sleep apnea syndrome patients versus habitual snorers**  
*O.C. Deleanu, D. Pocora, R. Ulmeanu, F.D. Mihaltan, S. Mihaicuta (Bucharest, Oradea, Timisoara, RO)*
- P878 Electrophysiological evaluation of the relationship between the levels of body mass index and apnea hypopnea index**  
*M. Kayabekir, Ö. Topaloğlu (Erzurum, Izmir, TR)*
- P879 Relationship between symptoms of sleep disordered breathing and severity of obstructive sleep apnoea in a reference sleep center**  
*T.M. Jonassen, I.W. Saxvig, S. Gulati, H. Aurlien, B. Bjorvatn, T.M.L. Eagan, S. Lehmann (Bergen, NO)*
- P880 Nasal symptoms and dimensions measured by acoustic rhinometry in relation to PAP use in the Icelandic sleep apnea cohort study**  
*S. Juliusson, S. Gudmundsdottir, E.S. Arnardottir, B. Benediktsdottir, A.I. Pack, T. Gislason (Reykjavik, IS; Philadelphia, US)*
- P881 The influence of abdominal fat distribution measured by DEXA on the severity of sleep apnea in postmenopausal women**  
*Z. Szakacs, M. Gyorfi (Budapest, HU)*
- P882 HMPAO SPECT with acetazolamid challenge predicts the need of early intervention in OSAHS cases with normoxaemia**  
*I. Bernath, Z. Szakacs (Budapest, HU)*
- P883 Long term follow-up reveals increased risk of mortality and morbidity in supine dominant OSA patients**  
*A. Kulkas, A. Muraja-Murro, P. Tiihonen, E. Mervaala, J. Töyräs (Kuopio, Seinäjoki, FI)*
- P884 Is HLA-DRB1\*03 a risk factor for obstructive sleep apnoea syndrome?**  
*L. Silva, C. Carvalho, D. Cunha, J. Lopes, J. Ramalheira, B. M Silva, P. Costa, A. Martins da Silva (Gandra, Porto, PT)*
- P886 Evaluation of hypertension and obesity in the severity of the syndrome of obstructive sleep apnea in 100 patients**  
*A.G. Simeonova, I. Staikov, N. Neykov, D. Qncheva, M. Cholakova, P. Dacheva, E. Dimitrova, N. Mihnev, M. Mihov, I. Stoyanov, V. Vutova (Sofia, BG)*

- P887 Excessive daytime sleepiness and risk of obstructive sleep apnea in patients with chronic kidney disease on hemodialysis**  
*I.R. Santos, N.T. Fonseca, J.J. Urbano, N. Apostolico, R.G. Almeida, E.F. Oliveira, I.S. Dias, S.R. Nacif, P.C. Bosio, L.V.F. Oliveira (Ribeirão Preto, São Paulo, BR)*
- P888 Obstruction severity in diagnostics of sleep apnea**  
*A. Muraja-Murro, A. Kulkas, S. Kupari, T. Hukkanen, P. Tiihonen, E. Mervaala, J. Töyräs (Kuopio, Seinäjoki, FI)*
- P889 Vigilance decrements and erectile dysfunction in patients with sleep apnea**  
*R. Popp, Y. Kleemann, T. Wetter, S. Budweiser, R. Jörres, W. Wieland, M. Pfeifer, M. Arzt (Donaustauf, Munich, Regensburg, Rosenheim, DE)*
- P890 Serum vitamin D levels are reduced in obstructive sleep apnea patients and increase after continuous positive airway pressure therapy**  
*C. Liguori, A. Romigi, N.B. Mercuri, F. Izzì, M. Albanese, A. Cordella, E. Tarquini, A. Nitti, M.G. Marciani, F. Placidi (Rome, IT)*
- P891 Respiratory and non-respiratory arousals induce changes in intracranial oxygenation in sleep disordered patients measured with near-infrared spectroscopy**  
*J. Toppila, K. Kotilahti, T. Näsi, J. Virtanen, I. Nissilä, T. Salmi, A. Bachour (Espoo, Helsinki, FI)*
- P892 OSAS diagnosis and CPAP treatment in relation to cardiovascular disease (CVD). An assessment based on health economics**  
*G. Trakada, N.-T. Economou, E. Nena, A. Trakada, P. Zarogoulidis, P. Steiropoulos (Alexandroupoli, Athens, Pireus, GR; Essen, DE)*
- P893 Reduced brain grey matter density is associated with lower oxygen saturation during sleep and vascular burden**  
*A.-A. Baril, K. Gagnon, C. Arbour, H. Blais, C. Lafond, J. Montplaisir, J.-F. Gagnon, N. Gosselin (Montréal, CA)*
- P894 Excessive daytime sleepiness and risk of obstructive sleep apnoea in patients with bronchiectasis**  
*N.S. Faria Junior, I.R. Santos, L.M. Sampaio, J.J. Urbano, N.T. Fonseca, A.M. Bigatão, S.R. Santos, F.S.S. Leitão Filho, J.R. Jardim, L.V.F. Oliveira (Fortaleza, São Paulo, BR)*
- P895 Association between obstructive sleep apnea severity and changes in regional cerebral perfusion in older individuals: a high resolution SPECT study**  
*A.-A. Baril, K. Gagnon, C. Arbour, H. Blais, C. Lafond, J.-P. Soucy, J. Montplaisir, J.-F. Gagnon, N. Gosselin (Montréal, CA)*
- P896 Duration and degree of O2 desaturation in voluntary apnea versus longest obstructive apnea in patients with obstructive sleep apnea syndrome of severe degree**  
*A. Lupusor, V. Vovc, I. Moldovanu (Chisinau, MD)*
- P897 Night eating syndrome and obesity with obstructive sleep apnea, preliminary study**  
*D. Tuncel, O. Orhan, G. Bolat (Kahramanmaras, TR)*
- P898 Markers of endothelial function in men with obstructive sleep apnea with and without metabolic syndrome**  
*G. Pilkauskaitė, S. Miliuskas, R. Steponaviciute, R. Sakalauskas (Kaunas, LT)*
- P899 Long-term CPAP effect on body compositions and cardiometabolic factors in obstructive sleep apnea**  
*P.-L. Lee, M.-J. Lin, W.-D. Wu, T.T.-F. Shih, K.-C. Huang, L.-W. Hang, C.-P. Chang, C.-T. Tang, T.-Y. Wang, C.-J. Yu (Taichung, Taipei, TW)*
- P900 Eating patterns and sleepiness among truck drivers**  
*A.J. Martins, L.A. Martini, C.R.C. Moreno (São Paulo, BR)*
- P901 Sleep apnea and oxidative stress**  
*M. Izaghour, R. Roky (Casablanca, MA)*

- P902** **Tae-eum type as an independent risk factor for obstructive sleep apnea**  
S.K. Lee, D.W. Yoon, C.-H. Yun, S.J. Kim, S. Chol (Ansan-si, Bundang-si, KR)
- P903** **Serum levels of microRNA-92a are associated with cardiovascular disease in obstructive sleep apnea**  
H. Wang, Y. Lin, J. Liu (Naning, Nanning, CN)
- P904** **Prevalence of sleep-related accidents among Saudi drivers**  
A.S. BaHammam (Riyadh, SA)
- P905** **Bus drivers' working hours and their effects on sleep and fatigue**  
G. Kecklund, I. Radun, M. Ingre, C. Fors, J. Ihström, A. Anund (Linköping, Stockholm, SE)
- P906** **The Epworth Sleepiness Scale for screening of the drowsy driving: comparison with the maintenance of wakefulness test in an Iranian sample of commercial drivers**  
K. Sadeghniaat-Haghighi, H.J. Moller, M. Saraei, O. Aminian, A. Khajeh-Mehrizi (Tehran, IR; Toronto, CA)
- P907** **Positive impact on readmission rate of adaptive servo-ventilation therapy in heart failure**  
M. Yoshida, S.-I. Ando, T. Kadokami, T. Honda, K. Nakao (Chikushino, Fukuoka, Kumamoto, JP)

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**17.15 – 18.45**      **Sleep disorders – Hypersomnia** Poster Exhibition

- P908** **Substructural atrophy in the mesiotemporal lobe in patients with narcolepsy**  
E.Y. Joo, H. Kim, S.B. Hong (Seoul, KR; Montreal, CA)
- P909** **Narcolepsy with cataplexy post A/H1N1 vaccination – the first case reported from Cuba**  
Y. Rosales-Mesa, M. Meira e Cruz (Havana, CU; Lisboa, PT)
- P910** **Excessive daytime sleepiness and metabolic syndrome: a population-based study of women**  
A.C. Hayley, L.J. Williams, G.A. Kennedy, M. Berk, J.A. Pasco (Geelong, Melbourne, AU)
- P911** **Health related quality of life in Korean patients with narcolepsy**  
T.W. Kim, S.C. Hong, S.H. Joo (Suwon, KR)
- P912** **The correlation of dream recall and clinical variables in narcoleptics**  
D.-I. Jon, K.H. Lee, M.-D. Kim, K.-J. Min, S.-Y. Lee, S.-K. Chung, Y.-J. Kwon, B.-H. Yoon, J.-H. Jeong, W.-M. Bahk (Anyang, Cheonan, Gyeongju, Iksan, Jeju, Jeonju, Naju, Seoul, Suwon, KR)
- P913** **Safety results from a 12-week open-label, multicenter study of sodium oxybate in patients with narcolepsy**  
M. Mamelak, T. Swick, H. Emsellem, J. Montplaisir, C. Lai, J. Black (Montréal, Toronto, CA; Houston, Palo Alto, Washington, US)
- P914** **HLA dosage effect in narcolepsy with cataplexy: additional evidence for a direct involvement of the HLA-DQ molecule in the development of the disease**  
A. van der Heide, W. Verduijn, G. Haasnoot, J. Drabbels, G.J. Lammers, F. Claas (Leiden, NL)
- P915** **Traffic exposure: increased risk of both daytime sleepiness and habitual snoring**  
T. Gislason, A. Johannsson, T.D. Skorge, C. Svanes, V. Schünssen, R. Jogi, L. Modig, B. Benediktsdottir, Ö.I. Emilsson, E.S.S. Arnardottir, C. Jansson (Reykjavik, IS; Bergen, NO; Aarhus, DK; Tartu, EE; Gothenburg, Uppsala, SE)
- P916** **Polysomnographic and actigraphic characteristics of patients with H1N1-vaccine-related and sporadic narcolepsy**  
A. Alakuijala, T. Sarkanen, M. Partinen (Helsinki, FI)



- P917 Glucose tolerance in patients with narcolepsy and matched healthy controls**  
S.L. Weinhold, R. Göder, P.C. Baier (Kiel, DE)
- P918 Improvement of divided attention in narcolepsy by intranasal orexin-A**  
S.L. Weinhold, R. Göder, P.C. Baier (Kiel, DE)
- P919 Differences in sleep architecture between narcolepsy and idiopathic hypersomnia: an overnight polysomnographic study**  
P. van Mierlo, D. Pevernagie, S. de Wolf, S. Overeem (Amsterdam, Heeze, NL)
- P920 The utility of sleep onset REM (SOREM) in differential diagnosis of central hypersomnias**  
M. Nalbantoglu, G. Benbir, D. Karadeniz (Istanbul, TR)
- P921 Patients with narcolepsy in Slovenia**  
M. Todosijevic, L. Dolenc Groselj (Ljubljana, Novo Mesto, SI)
- P922 Decreased CPT1 function is associated with and a risk factor for narcolepsy and essential hypersomnia**  
M. Honda, T. Miyagawa, Y. Shigematsu, T. Kodama, K. Tokunaga (Fukui, Tokyo, JP)
- P923 Alteration of white matters in narcolepsy with cataplexy; diffusion tensor imaging study**  
Y.K. Park, O.-H. Kwon, E.Y. Joo, S.B. Hong (Seoul, KR)
- P924 Sleepiness and performance is disproportionate in patients with nonorganic hypersomnia compared to idiopathic hypersomnia, narcolepsy and obstructive sleep apnoea syndrome**  
D. Schreier, W.J. Schmitt, J. Mathis (Bern, CH)
- P925 Norwegian H1N1-vaccinated Kleine-Levin syndrome and idiopathic hypersomnia cases – is narcolepsy the only CNS hypersomnia occurring after pandemix?**  
S.H. Nordstrand, K.H. Bronder, P.E. Hesla, E. Midtlyng, S. Knudsen (Oslo, NO)
- P926 Educational challenges for children with narcolepsy in Norway**  
H.N. Andresen, Y. Kamaleri, K.H. Bronder, E. Midtlyng, S. Knudsen (Oslo, NO)
- P927 Diagnostic potential of nocturnal sleep stage transitions to identify narcolepsy type 1**  
F. Pizza, S. Vandi, M. Iloti, K.K. Moghadam, E. Mignot, G. Plazzi (Bologna, IT; Palo Alto, US)
- P928 Weight loss persists in narcolepsy patients using sodium oxybate**  
C.E.H.M. Donjacour, W.P. van der Meijden, P.P. Buijserd-Amesz, G.J. Lammers (Heemstede, Leiden, NL)
- P929 Oral L-carnitine as treatment for narcolepsy during pregnancy: a case report**  
C. Liguori, F. Placidi, N.B. Mercuri, F. Izzi, M. Albanese, A. Marchi, C. Mancini, M.G. Marciani, A. Romigi (Rome, IT)
- P930 Clinical efficacy of intravenous immunoglobulins (IVIg) in pediatric type-1 narcolepsy: a case-controlled study**  
J. Corny, A. Papon, O. Bourdon, A. De Lauzanne, M. Lecendreux (Paris, FR)
- P931 Symptoms of attention-deficit hyperactivity disorder (ADHD) in pediatric narcolepsy**  
M. Lecendreux, S. Lavault, S. Scholtz, C.O. Inocente, E. Konofal, P. Franco, I. Arnulf, Y. Dauvilliers (Lyon, Montpellier, Paris, FR)
- P932 Effector and regulatory T-cells in narcolepsy**  
M. Lecendreux, A. Regnault, E. Franck, D. Klatzmann, M. Rosenzweig (Paris, FR)
- P933 Association between sleep duration, unmet sleep need and excessive daytime sleepiness in Korean adults**  
K.I. Yang, Y. Hwangbo, M.K. Chu, C.-H. Yun, W.-J. Kim (Anyang, Cheonan, Seongnam, Seoul, KR)

- P934 Physical fitness in narcolepsy**  
*K. Sonka, J. Buskova, S. Nevsimalova, V. Tuka, M. Matoulek (Prague, CZ)*
- P935 Amygdalar volume in narcolepsy type 1 and 2 and in controls**  
*V. Nemcova, J. Krásenský, P. Petrovický, M. Vaneckova, Z. Seidl, J. Buskova, K. Sonka (Prague, CZ)*
- P936 Marked improvement of narcolepsy symptoms during treatment with baclofen – a case report**  
*A. Wierzbicka, A. Wichniak, I. Musińska, K. Czasak, E. Waliniowska, L. Wołkow, W. Jernajczyk (Warsaw, PL)*
- P937 Swiss Narcolepsy Scale: a valid tool for the identification of hypocretin-1 deficient patients with narcolepsy**  
*C. Sturzenegger, C.R. Baumann, U. Kallweit, G.J. Lammers, C.L. Bassetti (Bern, Wald, Zürich, CH; Leiden, NL)*
- P938 The impact of the ICSD-3 MSLT/PSG criteria on the diagnosis of narcolepsy**  
*P. Geisler, J. Ohli, R. Popp, T. Crönlein, T.C. Wetter (Regensburg, DE)*
- P939 Narcolepsy cataplexy atypical associations: lucid dreaming and Diogenes syndrome**  
*T. Paiva, T.R. Pinto, V. Ramos, M. Chaves, P.S. Nunes (Lisbon, PT)*
- P940 Psychosis in narcolepsy as a side effect of sodium oxybate**  
*T. Sarkanen, V. Niemelä, A.-M. Landtblom, M. Partinen (Helsinki, Jyväskylä, FI; Uppsala, SE)*
- P941 Multiple sleep latency test may be not sensitive in obstructive sleep apnea with comorbid narcolepsy revealed by cerebrospinal-fluid orexin low levels**  
*F. Placidi, C. Liguori, F. Izzi, M. Albanese, A. Marchi, F. Cum, N.B. Mercuri, M.G. Marciani, A. Romigi (Rome, IT)*
- P942 Complete loss of F-waves during cataplectic attacks in patients with narcolepsy**  
*F. Salih, P. Grosse (Berlin, DE)*
- P943 Treatment response of subjective and objective measures of sleepiness in narcolepsy with cataplexy**  
*R. Taddei Garcia, E. Werth, R. Poryazova, Y. Gavrilov, C.R. Baumann, P.O. Valko (Zurich, CH)*
- P944 The Swiss Narcolepsy Scale for the identification of patients with narcolepsy: a prospective, “real-life“, sleep-centre study in a cohort of 811 patients**  
*U. Kallweit, C. Sturzenegger, H. Hidalgo, C.L. Bassetti (Bern, Wald, CH; Katzenelnbogen, DE)*
- P945 Frequency of genetic risk and protective alleles for narcolepsy with cataplexy in Estonia**  
*M. Teder-Laving, H. Rein, M. Pindmaa (Tallinn, Tartu, EE)*
- P946 Patterns of sleep latency in the multiple sleep latency test naps across the day in central nervous system hypersomnias**  
*C. Fernandes, A. Castro Caldas, C. Bentes, A.R. Peralta (Almada, Lisbon, PT)*
- P947 Persistent somnolence despite adequate CPAP therapy**  
*H. Sutton (London, GB)*
- P948 The occurrence of hypnagogic hallucinations and sleep paralysis according to age and disease duration in narcolepsy with cataplexy**  
*P. Kovalska, D. Kemlink, J. Buskova, S. Nevsimalova, K. Sonka (Prague, CZ)*

- P949** **sleep disorders other than parasomnias, as mimics of epilepsy**  
*A.W. de Weerd (Zwolle, NL)*
- P950** **Transcranial magnetic stimulation improves sleep parameters and quality of life in patients affected with focal epilepsy**  
*O. Sanchez Escandon, Y. Arana Lechuga, G. Teran Pérez, J. Velazquez, P. Shkurovich Bialik, M.A. Collado, A. Ruiz Chow (México, MX)*
- P951** **Effect of the timing of acetylcholinesterase inhibitor ingestion on sleep**  
*Y.-J. Kwon, W.-M. Bahk, B.-H. Yoon, K.-J. Min, S.-Y. Lee, D.-I. Jon, K.H. Lee, S.-K. Chung, M.-D. Kim, H.R. Song (Anyang, Cheonan, Gyeongju, Iksan, Jeju, Jeonju, Naju, Seoul, KR)*
- P952** **Orexin levels in patients with Niemann-Pick type C and their response to Miglustat treatment**  
*Y. Sagawa, T. Kanbayashi, H. Kubota, Y. Hamada, A. Imanishi, M. Omokawa, T. Takahashi, N. Sakai, S. Nishino, T. Shimizu (Akita, Osaka, JP; Palo Alto, US)*
- P954** **The cognitive and functional status of stroke patients are negatively affected by obstructive sleep apnoea**  
*J.A. Aaronson, W.F. Hofman, C.A.M. van Bennekom, E. Groet, W.A. Kylstra, T. van Bezeij, J.G. van den Aardweg, B. Schmand (Alkmaar, Amsterdam, Wijk aan Zee, NL)*
- P955** **Sleep apnea and stroke**  
*J. Huhtakangas, J. Huhtakangas, T. Saaresranta (Oulu, Turku, FI)*
- P956** **Sleep spindles mixed with spikes/sharp waves in a patient with supplementary motor area epilepsy**  
*F. Boghez (Bucharest, RO)*
- P957** **Sleep quality and pain thresholds in subjects with tension type headache and migraine compared to healthy controls**  
*M. Engstrøm, K. Hagen, M. Bjørk, L.J. Stovner, G.B. Gravdahl, M. Stjern, T. Sand (Bergen, Trondheim, NO)*
- P958** **Fatal familial insomnia: a new Spanish case of an unreported family**  
*R. Domínguez-Rubio, F. Díaz-Otero, A. Iglesias, M. Hidalgo, J.M. Velázquez, Y. Fernández-Bullido, L. Lillo-Triguero, R. Peraita-Adrados (Madrid, ES)*
- P959** **Sleep structure, associated sleep disorders, and the effects of medications on nocturnal sleep and daytime sleepiness in patients with Parkinson's disease**  
*B. Korkmaz, G. Benbir, D. Karadeniz (Istanbul, TR)*
- P960** **Brain structural abnormalities associated with rapid eye movement sleep behaviour disorder in Parkinson's disease**  
*S. Boucetta, A. Salimi, M. Dadar, B. Jones, D.L. Collins, T.T. Dang-Vu (Montreal, CA)*
- P961** **Arousal scoring in epilepsy**  
*Ö. Akgün, & Öztura, B. Baklan (Izmir, TR)*
- P962** **Sleep apnea and periodic leg movements in the acute phase of spinal cord injury**  
*P. Proserpio, A. Lanza, K. Sambusida, L. Fratticci, P. Frigerio, M. Sommariva, E.G. Stagni, T. Redaelli, F. De Carli, L. Nobili (Genoa, Milan, IT)*
- P963** **A questionnaire study on the sleep-related difficulties in the children with cerebral palsy**  
*L. Maisuradze, T. Ediberidze, N. Gogatishvili, N. Tatishvili, S. Kasradze (Tbilisi, GE)*
- P964** **Sleep disturbances in patients with multiple sclerosis associated fatigue**  
*A. Chikadze, L. Khuchua, M. Kiziria, D. Gugutsidze, M. Jibladze, R. Shakarishvili (Tbilisi, GE)*

- P965 Sleep quality through overnight standard polysomnography in patients with cerebral palsy**  
*L.C. Giannasi, S.R.B. Freitas, M.Y. Matsui, S.R. Nacif, J.B.O. Amorim, I.R. Santos, C.S. Oliveira, L.V.F. Oliveira, M.F. Gomes (Sao Jose dos Campos, São Paulo, BR)*
- P966 Central sleep apnoea in patient with hydrocephalus. A case report**  
*S.R. Nacif, J.J. Urbano, N. Apostolico, I.S. Dias, N.T. Fonseca, I.R. Santos, E.F. Oliveira, R.G. Almeida, L.V.F. Oliveira (São Paulo, BR)*
- P967 Subjective and objective sleep quality in migraine: the Hypnolaus/Psycholaus study**  
*J. Haba-Rubio, D. Andries, N. Tobback, M. Preisig, E. Castelao, M. Tafti, R. Heinzer (Lausanne, CH)*
- P968 EEG topography alterations in wakefulness and sleep in patients with mild cognitive impairment and Alzheimer disease**  
*G. Lauri, I. Truglia, S. Cordone, G. Della Marca, M. Gorgoni, A. D'Atri, M. Ferrara, P.M. Rossini, L. De Gennaro (L'Aquila, Rome, IT)*
- P969 Interhemispheric information flow between wake- and sleep-EEG signals after cerebral ischemia**  
*F. Zubler, S. Miano, T. Horvath, A. Seiler, S. Duss, C. Roth, J. Mathis, K. Schindler, C. Bassetti, H. Gast (Bern, Lugano, CH)*
- P970 Fatigue and excessive daytime sleepiness in the UK Myotonic Dystrophy Patient Registry**  
*A. Atalaia, L. Wood, S. West, K. Anderson, C. Turner, D. Hilton-Jones, H. Lochmuller (London, Newcastle upon Tyne, Oxford, GB)*
- P971 Longitudinal changes in the build-up of sleep slow wave activity in young patients recovering from acquired brain injury**  
*A.-L. Mouthon, H.J.A. van Hedel, A.D. Meyer-Heim, R. Huber (Affoltern am Albis, Zurich, CH)*
- P972 Partial sleep deprivation in patients with focal epilepsy: effect on sleep macrostructure and cyclic alternating pattern**  
*L. Carnicelli, L. Caciagli, M. Maestri, F.S. Giorgi, M. Guida, E. Di Coscio, U. Bonuccelli, E. Bonanni (Pisa, IT)*
- P973 Narcolepsy-like symptoms in Parkinson's disease**  
*A. Ylikoski, K. Martikainen, T. Sarkanen, A. Huutoniemi, M. Partinen (Helsinki, Turku, FI)*
- P974 Periodic limb movements during REM sleep in multiple sclerosis**  
*C. Veauthier (Berlin, DE)*
- P975 Lower quality of sleep is associated with lower quality of life in patients with epilepsy**  
*L. Ghahramanyan, M. Jaghatspanyan, T. Stepanyan, S. Khachatryan (Yerevan, AM)*
- P976 "HRV" (Heart rate variability) – a new parameter for the autonomic nervous system and correlate of normal and pathologic sleep?**  
*J. Zeitlhofer (Vienna, AT)*
- P978 Relationship of insomnia to different nocturnal symptoms in patients with Parkinson's disease**  
*Z. Tavadyan, S. Khachatryan, H. Bakunts (Yerevan, AM)*
- P979 Is sleep related breathing disorder associated with REM sleep behavioural disorder in patients with idiopathic Parkinson's disease?**  
*B.J. Vorderwülbecke, E. Breuer, R. Kretz, P. Grosse (Berlin, Hamburg, DE)*
- P980 Epilepsy patients with insomnia express more severe depression compared to insomnia patients**  
*A. Karamyan, L. Ghahramanyan, S. Khachatryan (Yerevan, AM)*

- P981 Estimation of sleep in patients with epilepsy: comparison of polysomnographic (PSG) and sleep log measures**  
*N.-T. Economou, S. Hoque, D. Moul, N. Andrews, N. Foldvary-Schaefer (Cleveland, US)*
- P982 Pulmonary function of myotonic dystrophy with chronic ventilatory failure**  
*D. Kim, S.-W. Kang, W.A. Choi (Seoul, KR)*
- P983 Polysomnography detects benign paroxysmal positional vertigo**  
*Y. Valko, E. Werth, C.J. Bockisch, P.O. Valko, K.P. Weber (Zurich, CH)*
- P984 Reduced frequency of cortical arousals in patients with idiopathic Parkinson's disease**  
*M. Sommerauer, L.L. Imbach, M. Jarallah, C.R. Baumann, P.O. Valko (Zurich, CH)*
- P985 Occurrence of restless legs syndrome is associated with higher depression and anxiety rates and nocturnal seizures in epilepsy**  
*S. Khachatryan, A. Karamyan, L. Ghahramanyan, M. Ghambaryan, N. Nahapetyan, T. Stepanyan (Yerevan, AM)*
- P986 Faster sleep spindles at the side of the epileptic focus in patients with temporal lobe epilepsy**  
*C. Moshovos, G. Makridakis, A. Koupparis, E. Tsoukas, A. Bonakis, D. Pandis, A. Ghika, I. Evdokimidis, A. Kyrozis (Athens, GR)*
- P987 Bright light therapy in restless legs syndrome: a double-blind, placebo-controlled study**  
*U. Kilic-Huck, C. Meyer, E. Ruppert, J. Chambe, M. Bataillard, C. Schroder, P. Bourgin (Strasbourg, FR)*
- P988 The prevalence of restless legs syndrome (RLS) and sleep medication use in patients with myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS)**  
*I. Bileviciute-Ljungar, E. Pajediene, D. Friberg (Huddinge, Stockholm, SE; Kaunas, LT)*

**17.15 – 18.45 Paediatrics**

Poster Exhibition

- P990 Sleep duration sleep at 3 years is associated with fat, lean and bone mass at 4 years of age: findings from the Southampton Women's Survey**  
*J. Baird, C.M. Hill, S. Robinson, K. Godfrey, N. Harvey, C. Cooper, H. Inskip (Southampton, GB)*
- P991 Consequences of taking risks: why adolescents choose to 'switch off' before bed**  
*C. Reynolds, M. Gradisar, K. Afrin, A. Perry, J. Wolfe, M.A. Short (Adelaide, AU)*
- P992 Correlation between salivary alpha amylase level and electrocardiogram (ECG) based cardiopulmonary analysis in paediatric subjects with obstructive sleep apnoea**  
*C.S. Park (Suwon, KR)*
- P993 Analysis of cephalometry in obstructive sleep apnoea in paediatric subjects**  
*H.K. Lee (Suwon, KR)*
- P994 The children sleep comic – a new self-rating tool for childhood insomnia**  
*B. Schwerdtle, J. Kanis, A. Kübler, A.A. Schlarb (Bielefeld, Würzburg, DE)*
- P995 Prospective changes in adolescents' sleep and weight across 1 year**  
*M. Guidolin, M. Gradisar, M.A. Short, N. Lovato (Adelaide, AU)*
- P996 Does obstructive sleep apnea contribute to elevated intracranial pressure in children with syndromic craniosynostosis? A prospective cohort study**  
*B. Spruijt, K.F.M. Joosten, C. Driessen, M.L.C. van Veelen-Vincent, N. Naus, D. Rizopoulos, R.C. Tasker, I.M.J. Mathijssen (Rotterdam, NL; Boston, US)*
- P997 Effects of a multimodal sleep training for infants and toddlers on maternal sleep – preliminary actigraphy data**  
*J.B. Kanis, B. Schwerdtle, A. Kübler, A.A. Schlarb (Bielefeld, Würzburg, DE)*

- P998 Delayed sleep phase disorder in an Australian school-based sample of adolescents**  
*N. Lovato, M. Gradisar, M. Short, H. Dohnt, G. Micic (Adelaide, AU)*
- P999 Prevalence of obstructive sleep apnoea in young children with Down syndrome: a domiciliary cardiorespiratory study**  
*C.M. Hill, A. Ashworth, H. Elphick, H. Evans, M. Farquhar, J. Gavlak, P. Gringras, R. Kingshott, J. Martin, R. Pickering, J. Reynolds (London, Sheffield, Southampton, GB)*
- P1000 Incidence and persistence of insomnia symptoms in the transition between childhood and adolescence**  
*J. Fernandez-Mendoza, J. Gaines, S. Calhoun, A. Vgontzas, D. Liao, E. Bixler (Hershey, US)*
- P1001 Does obstructive sleep apnea influence sleep quality in children with syndromic craniosynostosis?**  
*B. Spruijt, I.M.J. Mathijssen, H.H. Bredero-Boelhouwer, K.F.M. Joosten (Rotterdam, NL)*
- P1002 Meta-analysis of protective and risk factors for adolescent sleep**  
*K. Bartel, M. Gradisar, P. Williamson (Adelaide, AU)*
- P1003 One hour of pre-bedtime screen light: effects on adolescents' pre-bedtime alertness, sleep and daytime functioning**  
*M. Heath, C. Sutherland, K. Bartel, M. Gradisar, P. Williamson, N. Lovato, G. Micic (Adelaide, AU)*
- P1005 A reliability and validity study of the pediatric daytime sleepiness scale among school aged children in Japan**  
*Y. Komada, S. Nakajima, R. Breugelmans, C.L. Drake, Y. Inoue (Tokyo, JP; Detroit, US)*
- P1006 Disturbances of carbohydrate metabolism at night in children with obesity, different height and sleep apnea (pilot study)**  
*O. Kozhevnikova, V. Altunin, L. Namazova-Baranova, A. Gevorkyan, I. Shirokova, A. Batirova, I. Kondrahina, E. Abashidze (Moscow, RU)*
- P1007 Consequences of updated AASM criteria in scoring for obstructive sleep apnea in children with syndromic craniosynostosis**  
*H. Bredero-Boelhouwer, B. Spruijt, L.J.A. Corel, I.M.J. Mathijssen, K.F.M. Joosten (Rotterdam, NL)*
- P1008 Sleep disturbance in children with and without developmental coordination disorder (DCD) and links with daytime functioning**  
*L. Wiggs, M. Sparrowhawk, A. Barnett (Oxford, GB)*
- P1009 Weighted blankets and sleep in autistic children – a randomised controlled trial**  
*P. Gringras, D. Green, B. Wright, C. Rush, M. Sparrowhawk, K. Pratt, V. Allgar, N. Hooke, D. Moore, Z. Zaiwalla, L. Wiggs (London, Oxford, York, GB)*
- P1010 The effect of therapist input on effectiveness of internet therapy for adolescents with insomnia**  
*E.J. de Bruin, A.M. Meijer (Amsterdam, NL)*
- P1011 Hand and foot distal vasodilation decreases wakefulness duration in preterm neonates**  
*L. Barcat, E. Bodin, P. Décima, E. Stéphan-Blanchard, S. Delanaud, P. Tourneux, J.-P. Libert, A. Léké, V. Bach (Amiens, FR)*
- P1012 How families sleep? – Observations from the child-sleep birth cohort study**  
*O.A. Saarenpää-Heikkilä, J. Paavonen, S.-L. Himanen, A. Kylliäinen, P. Pölkki, T. Stenberg, T. Paunio (Helsinki, Kuopio, Tampere, FI)*
- P1013 Routine respiratory screening for children with severe motor disorders using night-time postural equipment (sleep systems): a qualitative study**  
*S. Moens, E. Mccaughey, C. Quint, S. Beasley, S. Jenkins, H. Evans, C.M. Hill (Portsmouth, Southampton, GB)*

- P1014 The impact of demographics and sleep hygiene factors on sleep in children aged 2-10 years**  
*A. Richdale, R.Y. Cai (Melbourne, AU)*
- P1015 Effects of six-months methylphenidate treatment on sleep disturbances in children with attention-deficit/hyperactivity disorder. A pilot study**  
*F. Liboni, L. Palagini, A. Manfredi, A. Tacchi, F. Ricci, M. Mauri, G. Masi (Pisa, IT)*
- P1016 Valid methods for the estimation of children's sleep problems in clinical practice**  
*H. Werner, P. Hunkeler, C. Benz, L. Molinari, R. Huber, O. Jenni (Zurich, CH)*
- P1017 Evaluation for apparent life-threatening events (ALTE) in infants - using polysomnography with simultaneous pH monitoring**  
*K.-Y. Chae, S.-K. Rhie, Y.-W. Bang, I.-K. Sohn (Seongnam, Uiwang, KR)*
- P1018 Child and carer sleep quality in paediatric hospital wards**  
*R.S. Bevan, R. Sankey, E. Clayton, H. Grice, C.M. Hill (Southampton, GB)*
- P1019 Prospective polysomnographic study in children with monosymptomatic nocturnal enuresis and polyuria**  
*K. Dhondt, C. Van Herzeele, A. Raes, L.-A. Groen, P. Hoebeke, J. Vande Walle (Ghent, BE)*
- P1020 Effects of a dietary intervention on the sleep patterns in children with autistic spectrum disorders**  
*R. Haro, R. Huerta, A. Labra, F. Sánchez-Narváez, E.G. Ibarra-Coronado, E. Portillo, C. Fernandez, M. Ramirez, O. Garcia, M. Apodaca, E. Sanchez (México, MX)*
- P1021 Improvement of sleep architecture in down syndrome children after a nutritional complement**  
*R. Huerta, A. Labra, F. Sánchez-Narváez, U. Jimenez-Correa, J.H. Medina-Chavez, E. Portillo, A. Ramirez, O. Garcia, M. Ramirez, E. Sanchez, R. Haro (México, MX)*
- P1022 Tobacco smoke exposure increases gastro-oesophageal reflux occurrence during active sleep in neonates**  
*F. Telliez, A. Léké, A.-S. Lemaire-Hurtel, E. Stéphan-Blanchard, S. Delanaud, V. Bach, D. Djeddi-Dine (Amiens, FR)*
- P1023 Ready, Set, Snooze! An interactive, web-based treatment program for pediatric behavioral sleep problems**  
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