Scientific Programme

Sunday, 11 September 2016

Track General, Other Session, Lecture Hall C

08:50 - 09:10 SIMSO along with EADSM: SIMSO 2016 Annual Meeting

08:50 - 09:00 **SIMSO President' s Welcome/Benvenuto del Presidente SIMSO**

09:00 - 09:10 **EADSM President's Welcome/Benvenuto del Presidente EADSM**

Track General, Other Session, Lecture Hall C

09:10 - 10:40 SIMSO Session

09:10 - 09:40 1 **Multidisciplinary approach to OSAS/Approccio multidisciplinare all'OSAS**
S. Mondini (Bologna, IT)

09:40 - 10:10 2 **Motor vehicle accident and OSAS/ Incidenti stradali ed OSAS**
A. Sanna (Florence, IT)

10:10 - 10:40 3 **Collaboration between Pulmonologists and Dental Practitioner /Collaborazione tra Pneumologo e Odontoiatra**
A. Braghiroli (Veruno, IT)

Track General, Other Session, Lecture Hall C

11:10 - 13:00 SIMSO-EADSM Session

11:10 - 12:40 4 **Lectio Magistralis: Upper airway patency/Pervietà delle vie aeree superiori**
P. Cistulli (Sydney, AU)

12:40 - 13:00 5 **Actual general findings of relevance to OSAS/Nuove Ricerche in Medicina del Sonno**
N. Netzer (Bad Aibling, DE)

Track General, Other Session, Lecture Hall C

14:30 - 16:00 EADSM Session

14:30 - 15:00 6 **Good clinical Practice: Treatment planning / La buona pratica clinica: Pianificare il trattamento**
M. Braem (Antwerp, BE)

15:00 - 15:30 7 **Good clinical Practice: Follow up care and Long term efficacy/ La buona pratica clinica: Follow up ed efficacia a lungo termine**
M. Marklund (Umea, SE)

Scientific Programme

15:30 - 15:55	**8**	**Why and How to prepare for EADSM Accreditation / Perché e come preparare l'accreditamento EADSM** R. Dookun (Guernsey, UK)
15:55 - 16:00		**EADSM Lifetime Achievement Award**

Track General, Other Session, Lecture Hall C

16:30 - 18:30 SIMSO PEDIATRIC Session

16:30 - 17:00	**9**	**Rapid Maxillary Espansion/ Espansione rapida del palato** P. Pirelli (Rome, IT)
17:00 - 17:30	**10**	**Mandibular Advancing Devices in Children/ Dispositivi ad avanzamento mandibolari nel bambino** P. Cozza (Rome, IT)
17:30 - 18:00	**11**	**Italian Pediatric Guidelines / Linee Guida sul trattamento del paziente in età evolutiva** M. Segù (Pavia, IT) L. Levrini (Milan, IT)
18:00 - 18:30		**EADSM General Member's Meeting**

Scientific Programme

Monday, 12 September 2016

Track General, Other Session, Lecture Hall B

08:15 - 10:10 AIMS Symposium

08:15 - 08:45	**12**	**Inaugurazione del congresso - Saluto delle Autorità**
08:45 - 08:50		**Introduction** M.R. Bonsignore (Palermo, IT)
08:50 - 09:30	**13**	**Keynote Lecture - "Giovanni Bonsignore" - Mild Osas: To treat or not to treat?** M.R. Bonsignore (Palermo, IT)
09:30 - 09:35		**Introduction** M. Terzano (Parma, IT)
09:35 - 10:10	**14**	**Lettura - Fisiopatologia e trattamento dei dei disturbi del sonno nella malattia di Alzheimer** L. Nobili (Milan, IT)

Other Session, ESRS Board Room

09:00 - 13:00 Sessione Dedicata

09:00 - 13:00	**15**	**SIMPOSIO per tecnici, fisioterapisti e infermieri**

Track General, Other Session, Lecture Hall B

10:30 - 12:15 AIMS Symposium - Simposio - Osas: Scelta terapeutica orientata al paziente

10:30 - 10:35		**Introduction** F. Milano (Bologna, IT)
10:35 - 11:15	**16**	**Keynote Lecture - Oral Devices: Introduzione alla "Objectivity measured compliance"** M. Braem (Antwerp, BE)
11:15 - 11:35	**17**	**Fenotipi Morfo-Funzionali del Paziente Osas e Ricaduta Terapeutica** G. Sorrenti (Bologna, IT)
11:35 - 11:55	**18**	**Osas posizionale: definizioni e ruolo della terapia posizionale** M. Zucconi (Milan, IT)
11:55 - 12:15	**19**	**Osas: quale spazio per una terapia farmacologica** A. Braghiroli (Veruno, IT)

Scientific Programme

Track General, Other Session, Lecture Hall C

10:30 - 12:30 AIMS Symposium - Comunicazione Libere - Prima Sessione

Track General, Other Session, Lecture Hall B

12:15 - 13:30 Sessione dedicata - Simposio Giovani Ricercatori

12:15 - 13:30	**20**	**Sessione dedicata - Simposio giovani ricercatori**

Track General, Other Session, Lecture Hall B

15:00 - 16:30 AIMS Symposium - Simposio Rischio Cardiovascolare Nei Pazienti Con Disturbi Del Sonno

15:00 - 15:20	**21**	**Pressione arteriosa ed orologi molecolari: una prospettiva fisiologica del rischio cardiovascolare associato ai disturbi del sonno** A. Silvani (Bologna, IT)
15:20 - 15:40	**22**	**Fibrillazione atriale e sonno** G. Perego (Milan, IT)
15:40 - 16:00	**23**	**Plm nello scompenso cardiaco e nell'insufficienza renale** M. Manconi (Lugano, CH)
16:00 - 16:20	**24**	**Vitamina d e sonno: aspetti clinici** S. Vai (Milan, IT)
16:20 - 16:30		**Discussione**

Track General, Other Session, Lecture Hall C

15:00 - 16:30 AIMS Symposium - Simposio - Il Sonno Nel Bambino

15:00 - 15:20	**25**	**Studio longitudinale del sonno nel primo anno di vita** O. Bruni (Rome, Lazio, IT)
15:20 - 15:40	**26**	**Indagine epidemiologica nazionale sul sonno in età evolutiva** P. Brambilla (Milan, IT)
15:40 - 16:00	**27**	**Pattern di sonno nei disturbi del neurosviluppo** M. Angriman (Bolzano, IT)
16:00 - 16:20	**28**	**Sonno e adhd** S. Milano (Lugano, CH)
16:20 - 16:30		**Discussione**

Scientific Programme

Other Session, ESRS Board Room

15:00 - 18:30 Meet the expert - Sessioni dedicate alle aziende farmaceutiche ed elettromedicali

Track General, Other Session, Lecture Hall B

16:45 - 19:30 AIMS Symposium - Simposio Associazione Distrubi Del Sonno e Disturbi Psichiatrichil: Nuove Evidenze

16:45 - 16:50		**Introduction** R. Amici (Bologna, IT)
16:50 - 17:30	**29**	**Keynote Lecture - Sleep disturbance, neuronal plasticity and psychiatric disorders** P. Meerlo (Groningen, NL)
17:30 - 17:50	**30**	**Narcolessia e disturbi psichiatrici** F. Pizza (Bologna, IT)
17:50 - 18:10	**31**	**Disturbi del ritmo circadiano e disturbi psichiatrici** C. Colombo (Milan, IT)
18:10 - 18:30	**32**	**Osas e depressione: un' associazione significativa?** M. Maestri (Pisa, IT)
18:30 - 19:30		**Assemblea dei Soci AIMS**

Track General, Other Session, Lecture Hall C

16:45 - 18:30 AIMS Symposium - Comunicazioni Libere - Seconda Sessione

Scientific Programme

Tuesday, 13 September 2016

Track General, Other Session, Lecture Hall B

08:45 - 10:00 AIMS Symposium

08:45 - 09:30	**33**	**Keynote Lecture CBT And Hypnotic Medications For Insomnia** G. Biggio (Cagliari, IT)
09:30 - 10:00	**34**	**Lettura - I Risvegli Intrasonno: Dalla Ricerca Alla Pratica Clinica** L. Ferini-Strambi (Milan, IT)

Track General, Teaching Course, Lecture Hall C

09:00 - 10:00 Teaching Course 1 - Sleep-wake regulation: the two process model and beyond

09:00 - 09:45	**35**	**The two process model of sleep regulation revisited** P. Achermann (Zurich, CH)
09:45 - 10:00	**36**	**Applying the three-process model to work scheduling and safety I** T. Åkerstedt (Stockholm, SE)

Track General, Teaching Course, Lecture Hall E

09:00 - 10:00 Teaching Course 3 - Measuring sleep and waking

09:00 - 10:00	**37**	**Human sleep and wakefulness in the lab: from behavior to electrophysiology and neuroimaging** G. Vandewalle (Liege, BE)

Track General, Teaching Course, Lecture Hall F

09:00 - 10:00 Teaching Course 5 (full day) - Sleep medicine as a transdisciplinary specialty („Year in review“)

09:00 - 09:45	**38**	**Internal Medicine** P. Cortelli (Bologna, IT)
09:45 - 10:00	**39**	**Cardiology** G. Parati (Milan, IT)

Other Session, Lecture Hall G

09:00 - 12:00 Sleep Scoring Hands-On Training Course - Natus

Scientific Programme

09:00 - 09:30	**40**	**Review of AASM Guidelines for Scoring Respiratory Events** A. Obeidat (Middleton, US)
09:30 - 10:30	**41**	**Scoring and Interpretation of Clinical PSG Cases PSG common Respiratory conditions** A. Obeidat (Middleton, US)
10:30 - 11:00	**42**	**Review of AASM Guidelines for Scoring Motor Related Movements – PLMD** A. Obeidat (Middleton, US)
11:00 - 12:00	**43**	**Scoring and Interpretation of Clinical PSG Cases with PLMD** A. Obeidat (Middleton, US)

Track General, Other Session, Lecture Hall B

10:30 - 12:30 AIMS Symposium - SIMPSO - Fisiopatologia Ed aspetti clinico-diagnostici dei disordini dell'arousal (DOA) dell'adulto

10:30 - 10:50	**44**	**Fisiopatologia dei meccanismi di arousals in n3: ruolo e plasticità del cap in età adulta** L. Parrino (Parma, IT)
10:50 - 11:10	**45**	**Aspetti clinico-epidemiologici e semeiotica dei doa dell'adulto** F. Provini (Bologna, IT)
11:10 - 11:30	**46**	**Episodi di confine: doa o crisi parziali notturne in pazienti con esordio atipico e tardivo** R. Silvestri (Messina, IT)
11:30 - 11:50	**47**	**Doa iatrogeni e sintomatici in pazienti con sindromi neurodegenerative** M. Terzaghi (Pavia, IT)
11:50 - 12:00		**Discussione**
12:00 - 12:30	**48**	**Lettura - Cataplessia** G. Plazzi (Bologna, IT)

Track General, Teaching Course, Lecture Hall C

10:30 - 12:30 Teaching Course 1 - Sleep-wake regulation: the two process model and beyond

10:30 - 11:00	**49**	**Applying the three-process model to work scheduling and safety II** T. Åkerstedt (Stockholm, SE)
11:00 - 11:45	**50**	**Applications of the two-process model and its expansion to waking performance** H.P. van Dongen (Spokane, US)

Scientific Programme

11:45 - 12:30	**51**	**Hands-on modeling: you can do it, too!** H.P. van Dongen (Spokane, US) P. Achermann (Zurich, CH)

Track General, Teaching Course, Lecture Hall E

10:30 - 12:30 Teaching Course 3 - Measuring sleep and waking

10:30 - 11:00	**52**	**Human sleep in the field: EEG loggers as a tool to understand ambulant sleep timing and intensity** R. Hut (Groningen, NL)
11:00 - 12:00	**53**	**Investigating sleep-wake circuits in rodent model: focus on electrophysiology and optogenetics** A. Adamantidis (Berne, CH)
12:00 - 12:30	**54**	**Beyond humans and laboratory rodents: physiological and behavioral studies of sleep across phylogeny** P. Meerlo (Groningen, NL)

Track General, Teaching Course, Lecture Hall F

10:30 - 12:30 Teaching Course 5 (full day) - Sleep medicine as a transdisciplinary specialty („Year in review“)

10:30 - 11:00	**55**	**Cardiology (cont.)** G. Parati (Milan, IT)
11:00 - 11:45	**56**	**Psychiatry** C. Nissen (Freiburg, DE)
11:45 - 12:30	**57**	**Neurology** C. Bassetti (Berne, CH)

Track General, Other Session, Lecture Hall C

12:30 - 16:30 Early Career Day: Putting ideas into practice

12:30 - 13:00		**Get together lunch**
13:00 - 13:05		**Welcome and introduction** E. Sif Arnardottir (Reykjavik, IS)
13:05 - 13:45	**58**	**Career planning: the benefit of hindsight** D. Skene (Guildford, UK)
13:45 - 14:45	**59**	**Discover the secrets of impactful presenters** D. Tomlinson (Paris, FR)
14:45 - 15:15		**Coffee Break**

Scientific Programme

15:15 - 16:00	**60**	**How to optimize a medical presentation with a support such as Power Point** D. Tomlinson (Paris, FR)
16:00 - 16:15	**61**	**Presentation feedback instructions** C. Reis (Lisbon, PT) B. Voinescu (Cluj-Napoca, RO)
16:15 - 16:30		**Election** A. Filtness (Loughborough, UK) H. Hrubos-Strøm (Oslo, NO)

Track General, Teaching Course, Lecture Hall A

13:00 - 16:30 Teaching Course 2 - EADSM-EUROSAS-ESRS - NON CPAP Therapies for OSAS

13:00 - 13:10	**62**	**The role of NON CPAP therapies** F. Milano (Bologna, IT)
13:10 - 13:40	**63**	**Adherence to CPAP: the challenge to effective treatment** N. Netzer (Bad Aibling, DE)
13:40 - 14:05	**64**	**Mandibular advancement devices in guidelines** M. Marklund (Umea, SE)
14:05 - 14:35	**65**	**MADs: patient selection and therapeutic choices** M. Braem (Antwerp, BE)
14:35 - 15:00	**66**	**ENT surgery in guidelines** O. Piccin (Bologna, IT)
15:00 - 15:30		**Coffee break**
15:30 - 16:00	**67**	**Surgery: patient selection and therapeutic choices** C. Vicini (Forlì-Cesena, IT)
16:00 - 16:30	**68**	**Positional therapy** N. de Vries (Amsterdam, NL)

Track General, Teaching Course, Lecture Hall E

13:00 - 15:00 Teaching Course 4 - AIMS - ESRS scoring arousals and CAP in animal models and clinical practice

13:00 - 13:15	**69**	**Anatomo-functional integration between sleep and autonomic nervous system** P. Cortelli (Bologna, IT)
13:15 - 13:40	**70**	**Scoring arousals in animal models** G. Zoccoli (Bologna, IT)

Scientific Programme

13:40 - 14:05	**71**	**Scoring rules of arousals and CAP** L. Parrino (Parma, IT)
14:05 - 14:30	**72**	**□□ □ □ □□ □□□ □□□□ □□□□□Scoring arousals and CAP in children** O. Bruni (Rome, Lazio, IT)
14:30 - 14:55	**73**	**Arousals and CAP in parasomnias and nocturnal epilepsies** M. Puligheddu (Cagliari, IT)
14:55 - 15:00		**Discussion**

Track General, Teaching Course, Lecture Hall F

13:00 - 15:00 Teaching Course 5 (full day) - Sleep medicine as a transdisciplinary specialty („Year in review“)

13:00 - 13:45	**74**	**Pulmonology** W. McNicholas (Dublin, IE)
13:45 - 14:30	**75**	**Psychology** D. Riemann (Freiburg, DE)
14:30 - 15:00	**76**	**Pediatrics** M. Farquhar (London, UK)

Track General, Other Session, Lecture Hall B

13:30 - 15:00 AIMS Symposium - Simposio - Cibo Cervbello e Sonno: Relazioni e Implicazioni

13:30 - 13:50	**77**	**Modificazioni indotte dall’obesità sulla regolazione delle fasi del ciclo veglia sonno e sui parametri cardiovascolari nel ratto** M. Luppi (Bologna, IT)
13:50 - 14:10	**78**	**Sonno e carenze/condizioni alimentari estreme** R. Manni (Pavia, IT)
14:10 - 14:30	**79**	**Aspetti quanti/qualitativi e ritmo dell'alimentazione nei pazienti con insonnia e disturbi circadiani** L. Palagini (Pisa, IT)
14:30 - 14:50	**80**	**Orari di lavoro: disturbi del sonno e sindrome metabolica** G. Costa (Padua, IT)
14:50 - 15:00		**Discussione**

Other Session, Lecture Hall G

14:00 - 17:00 Sleep Scoring Hands-On Training Course - Natus

Scientific Programme

14:00 - 14:30	**82**	**Review of AASM Guidelines for Scoring Respiratory Events** A. Obeidat (Middleton, US)
14:30 - 15:30	**83**	**Scoring and Interpretation of Clinical PSG Cases PSG common Respiratory conditions** A. Obeidat (Middleton, US)
15:30 - 16:00	**84**	**Review of AASM Guidelines for Scoring Motor Related Movements – PLMD** A. Obeidat (Middleton, US)
16:00 - 17:00	**85**	**Scoring and Interpretation of Clinical PSG Cases with PLMD** A. Obeidat (Middleton, US)

Track General, Other Session, Lecture Hall B

15:00 - 16:00 AIMS Symposium

15:00 - 16:00	**81**	**Comunicazioni libere - terza sessione**

Track General, Teaching Course, Lecture Hall E

15:30 - 16:30 Teaching Course 4 - AIMS - Teaching Course 4 - AIMS - ESRS scoring arousals and CAP in animal models and clinical practice

15:30 - 15:55	**86**	**Arousals and CAP in OSAS** M. Bosi (Forli-Cesena, IT)
15:55 - 16:20	**87**	**Automatic scoring of arousals and CAP** U. Faraguna (Pisa, IT)
16:20 - 16:30		**Discussion**

Track General, Teaching Course, Lecture Hall F

15:30 - 16:30 Teaching Course 5 (full day) - Sleep medicine as a transdisciplinary specialty („Year in review“)

15:30 - 15:45	**88**	**Pediatrics (cont.)** M. Farquhar (London, UK)
15:45 - 16:30	**89**	**Geriatrics** B. Guarnieri (Pescara, IT)

Track General, Opening/Closing Session, Lecture Hall A

17:00 - 19:00 Opening Session

Scientific Programme

17:00 - 17:30		**Welcome Words & entertainment**
17:30 - 18:00		**European Sleep Science Award**
18:00 - 18:15	**O90**	**Melatonin signaling pathway gene linked to intolerance to shift work** S. Sulkava (Helsinki, FI)
18:15 - 18:30	**O91**	**Circadian and homeostatic sleep pressure modulate fMRI correlates of vigilant attention** V. Muto (Liège, BE)
18:30 - 18:45	**O92**	**Cerebral blood flow during reduced arterial oxygen saturation in patients with obstructive sleep apnoea** M.L.F. Jensen (Glostrup, DK)
18:45 - 19:00	**O93**	**Reduced cerebral blood flow in prefrontal and insular regions characterises sleepwalkers' recovery slow wave sleep** M.-E. Desjardins (Montreal, QC, CA)

Track General, Other Session, Industry Exhibition

19:00 - 20:30 **Networking Evening**

Scientific Programme

Wednesday, 14 September 2016

Track Respiratory, Symposium, Lecture Hall A

08:30 - 10:30 Non CPAP therapies in OSA

08:30 - 09:00	**94**	**Diet and lifestyle measures** M.R. Bonsignore (Palermo, IT)
09:00 - 09:30	**95**	**Mandibular advancement therapy** M. Marklund (Umea, SE)
09:30 - 10:00	**96**	**Upper airway surgery for snoring and OSA – Where and when?** N. Browaldh (Stockholm, SE)
10:00 - 10:30	**97**	**Hypoglossal nerve stimulation for OSA. Current status and future prospects** J. Maurer (Mannheim, DE)

Track Human Sleep, Symposium, Lecture Hall B

08:30 - 10:30 Tracing ancestral sleep patterns - evidence from unique communities

08:30 - 09:00	**98**	**Characteristics of sleep in a community without electricity in Haiti** K. Knutson (Chicago, US)
09:00 - 09:30	**99**	**Comparative analysis of sleep quality between aboriginal and migratory populations in North-West Russia** S. Kolomeichuk (Petrozavodsk, RU)
09:30 - 10:00	**100**	**Access to electric light is associated with shorter sleep duration in Toba communities of the Argentinean Chaco** J. Duffy (Boston, US)
10:00 - 10:30	**101**	**Catching urbanisation in the act — studying sleep in communities in the Southern hemisphere** M. von Schantz (Guildford, UK)

Track Neuropsychiatry, Oral Session, Lecture Hall C

08:30 - 10:30 Neurological aspects of sleep in adults

08:30 - 08:42	**O102**	**Atypical sleep characteristics and incident dementia: a prospective cohort study** K. Bokenberger (Stockholm, SE)
08:42 - 08:54	**O103**	**Circadian changes of oscillatory brain activity in patients with disorders of consciousness** M. Wislowska (Salzburg, AT)

Scientific Programme

08:54 - 09:06	**O104**	**Optical coherence tomography in idiopathic REM sleep behavior disorder (RBD)** D. Arnaldi (Genoa, IT)
09:06 - 09:18	**O105**	**The role of sleep microstructure in the diagnostic yield of EEG after sleep deprivation in temporal lobe epilepsy** L. Carnicelli (Pisa, IT)
09:18 - 09:30	**O106**	**Treatment Of RLS/Wed with a selective AMPA receptor antagonist: an open study with objective sleep laboratory evaluation** D. Garcia-Borreguero (Madrid, ES)
09:30 - 09:42	**O107**	**Consistency of "probable REM-sleep behaviour disorder (RBD)" diagnosis with the RBD screening questionnaire: A population-based 2-year follow-up study** A. Stefani (Innsbruck, AT)
09:42 - 09:54	**O109**	**Human hypocretin receptor 2 antibodies are rare in idiopathic narcolepsy** M.P. Giannoccaro (Oxford, UK)
09:54 - 10:06	**O108**	**Melatonin therapy response in a large idiopathic REM-sleep behavior disorder cohort** C. Schaefer (Berlin, Berlin, DE)
10:06 - 10:18	**O110**	**Cortical and autonomic arousals from sleep in patients with Duchenne muscular dystrophy or Amyotrophic lateral sclerosis under noninvasive ventilation** G. Crescimanno (Palermo, IT)
10:18 - 10:30	**O111**	**A high-density polysomnographic picture of a case of NREM parasomnia** P.-L. Ratti (Lugano, CH)

Track Human Sleep, Oral Session, Lecture Hall D

08:30 - 09:30 Sleep and cognition in ageing

08:30 - 08:42	**O112**	**Improved sleep inertia in the morning in healthy older adults following exposure to bright blue-enriched light the previous evening** K. Scheuermaier (Johannesburg, Gauteng, ZA)
08:42 - 08:54	**O113**	**Cognitive training improves sleep quality and cognitive function among older adults with insomnia** I. Haimov (Emek Yezreel, IL)
08:54 - 09:06	**O114**	**Relationships between sleep fragmentation and Alzheimer's disease biomarkers in healthy older adults: A multimodal neuroimaging study** C. André (Caen, FR)
09:06 - 09:18	**O115**	**Age-related differences in the dynamics of cortical excitability and cognitive inhibition during prolonged wakefulness** G. Gaggioni (Liège, BE)

Scientific Programme

09:18 - 09:30	**O116**	**Age-related changes in the modulation of attentional brain responses to sleep pressure at night** C. Schmidt (Basel, CH)

Track Basic, Joint Symposium, Lecture Hall E

08:30 - 10:30 Joint Symposium EBRS - ESRS

08:30 - 09:00	**117**	**Modulation of melatonin profile in neuropsychiatric disorders** A. Sumova (Prague, CZ)
09:00 - 09:30	**118**	**Discrete mutations affecting the Zfhx3-mediated transcriptional axis in mouse brain can disrupt sleep, circadian rhythms and behaviour** P. Nolan (Harwell, UK)
09:30 - 10:00	**119**	**Trait-like aspects in the sleep EEG and sleep regulation** P. Achermann (Zurich, CH)
10:00 - 10:30	**120**	**Sleep loss: implications for metabolic health and endocrine rhythmicity** K. Spiegel (Lyon, FR)

Track General, ESST Meeting, Lecture Hall F

08:30 - 10:30 ESST Meeting Session 1

08:30 - 09:00		**Sign in and welcome**
09:00 - 09:30	**121**	**Movement disorders in sleep** P.J. Simons (Heeze, NL)
09:30 - 10:00	**122**	**OSA in children with sickle cell anaemia** J. Gavlak (Southampton, UK)
10:00 - 10:30	**123**	**Effects on sleep of PTSD and traumatic brain injury** D. De Remer (Landstuhl, DE)

Track Basic, Oral Session, Lecture Hall D

09:30 - 10:30 Sleep deprivation

09:30 - 09:42	**O124**	**Effects of long-term caffeine consumption and sleep deprivation on the adenosine A2A receptor in the rat brain** S. Laskowski (Jülich, DE)
09:42 - 09:54	**O125**	**Sleep recalibrates homeostatic and associative synaptic plasticity in the human cortex** M. Kuhn (Freiburg, DE)
09:54 - 10:06	**O126**	**The effect of sleep loss on emotional working memory** A. Gerhardsson (Stockholm, SE)

Scientific Programme

10:06 - 10:18	**O127**	**Are you vulnerable to sleep loss? Association between a priori self-assessed sensitivity to sleep deprivation and waking EEG dynamics** E. Hennecke (Cologne, DE)
10:18 - 10:30	**O128**	**Evidence for circadian brain plasticity: changes in cortical thickness and cerebral blood flow after a day of waking and sleep deprivation** T. Elvsåshagen (Oslo, NO)

Track Basic, Video Session, Lecture Hall A

11:00 - 12:00 Video Session - Paroxysmal manifestations during sleep in adults

11:00 - 11:30	**129**	**Simple motor phenomena: how to diagnose, how to treat?** R. Khatami (Barmelweid, CH)
11:30 - 12:00	**130**	**Complex motor phenomena: the role of video recording in the differential diagnosis** G. Plazzi (Bologna, IT)

Track Respiratory, Round Table, Lecture Hall B

11:00 - 12:00 Cardiovascular control during sleep: from basic research to clinical implications across the lifespan

11:00 - 11:15	**131**	**Central neural mechanisms of cardiovascular control during sleep: of mice and men** A. Silvani (Bologna, IT)
11:15 - 11:30	**132**	**Cardiovascular consequences of apneas and snoring during sleep in infants and children** R.S. Horne (Melbourne, AU)
11:30 - 11:45	**133**	**Cardiovascular autonomic dysfunctions and sleep disorders** G. Calandra-Buonaura (Bologna, IT)
11:45 - 12:00	**134**	**Cardiovascular control during sleep in the elderly: clinical consequences** E. Sforza (Saint-Etienne, FR)

Track Basic, Round Table, Lecture Hall C

11:00 - 12:00 Sleep and wake across time and space

11:00 - 11:15	**135**	**Sleep regulation by an excitability switch in Drosophila dFB neurons** J. Donlea (Los Angeles, CA, US)
11:15 - 11:30	**136**	**A black box? Human sleep-wake neuronal networks** S. Chellappa (Boston, US)

Scientific Programme

11:30 - 11:45	**137**	**Spatiotemporal dynamics of excitatory and inhibitory neurons during the wake-sleep cycle in humans** A. Destehxe (Gif-sur-Yvette, FR)
11:45 - 12:00	**138**	**Seasonality: biological time keeping meets environmental changes** R. Hut (Groningen, NL)

Track Translational, Oral Session, Lecture Hall D

11:00 - 12:00 Neurobiology of sleep: from development to disease

11:00 - 11:12	**O139**	**Rhythmic sensory stimulation of the thalamocortical circuitry in mice and its effects on sleep** K. Kompotis (Lausanne, Vaud, CH)
11:12 - 11:24	**O140**	**The occurrence of individual slow waves in sleep is predicted by heart rate** A. Mensen (Barmelweid, Aargau, CH)
11:24 - 11:36	**O141**	**The developmental course of sleep disturbances across childhood relates to brain morphology at age seven. The Generation R Study** D. Kocevska (Rotterdam, NL)
11:36 - 11:48	**O142**	**Aging is associated with altered non-rapid-eye movement sleep slow-wave characteristics in mice** M. Panagiotou (Leiden, NL)
11:48 - 12:00	**O143**	**Fear extinction in an animal model of post-traumatic stress disorder: the role of dopamine and REM sleep** I. Buller (Santiago, CL)

Track Neuropsychiatry, Case Discussion, Lecture Hall E

11:00 - 12:00 Insomnia diagnosis and treatment - complicated cases

11:00 - 11:20	**144**	**Insomnia: evaluation and treatment of a difficult case** L. Palagini (Pisa, IT)
11:20 - 11:40	**145**	**A rare case of insomnia: debate on necessity of PSG in insomnia** H.L. Hamburger (Amsterdam, NL)
11:40 - 12:00	**146**	**The comorbid insomnia patient. Diagnosis and management** P.J. Jennum (Glostrup, DK)

Track General, ESST Meeting, Lecture Hall F

11:00 - 12:00 ESST Meeting Session 2

11:00 - 11:45	**147**	**Keynote speaker: Circadian rhythms** D. Skene (Guildford, UK)

Scientific Programme

11:45 - 12:00 **Election, handover of offices**

Track General, Satellite Symposium, Lecture Hall B

12:15 - 13:15 The future of sleep medicine

12:15 - 12:20 **Introduction**
L. Ferini-Strambi (Milan, IT)

12:20 - 12:40 **148** **Advances in telemedicine in the management of sleep disordered breathing**
V. Castronovo (Milan, IT)

12:40 - 13:05 **149** **Novel approaches to improve sleep quality: slow wave enhancement**
P.C. Zee (Chicago, US)

13:05 - 13:15 **Q & A**

Track General, Satellite Symposium, Lecture Hall C

12:15 - 13:15 Advances in Measurement to Improve Treatment for SDB

12:15 - 12:45 **New approaches to improving the understanding of sleep apnoea pathogenesis and treatment**
D. Eckert (Sydney, AU)

12:45 - 13:15 **Does effort matter? –The role of manometry in clinical phenotyping of sleep apnea**
H. Hrubos-Strøm (Oslo, NO)

Track General, Other Session, Lecture Hall E

12:15 - 13:15 Publishing in sleep medicine/ sleep research - editorial advice

12:15 - 13:15 **How do you want your sleep research to be published?**
D. Riemann (Freiburg, DE)

Track Respiratory, Joint Symposium, Lecture Hall A

13:30 - 15:30 Joint Symposium ERS - ESRS: driving and sleepiness: from basic science to legislation

13:30 - 13:50 **151** **Sleep apnoea syndrome and the EU directive**
W. Randerath (Solingen, DE)

13:50 - 14:10 **152** **Insomnia – a driving risk?**
M. Partinen (Helsinki, FI)

Scientific Programme

14:10 - 14:30	**153**	**A pragmatic approach to assessing sleepiness – do you trust the patient?** S. Ryan (Dublin, UK)
14:30 - 14:50	**154**	**The EU directive on OSAS and driving license: the italian approach** F. Cirignotta (Bologna, IT)
14:50 - 15:30		**Panel discussion – audience participation**

Track Basic, Round Table, Lecture Hall B

13:30 - 15:30 Histamine: DREADD and optogenetic approaches in new animal models and translational studies

13:30 - 14:00	**155**	**The physiological basis of sleep-wake control by histamine** O. Sergeeva (Dusseldorf, DE)
14:00 - 14:30	**156**	**Optogenetic control of histamine neurons in HDC-Cre mutant mice** P. Bonnavion (Brussels, BE)
14:30 - 15:00	**157**	**Histamine and gamma-amino butyric acid co-transmission promotes arousal** W. Wisden (London, UK)
15:00 - 15:30	**158**	**A translational study of histamine in sleep disorders** P. Franco (Lyon, FR)

Track Human Sleep, Symposium, Lecture Hall C

13:30 - 15:30 Modeling shift work and circadian disruption: from neuron to organism

13:30 - 14:00	**159**	**Circadian disruption as a modulator of resilience to stress: neurobehavioral and physiological effects** I. Karatsoreos (Pullman, US)
14:00 - 14:30	**160**	**What does shift work do to sleep, circadian function and regulation of metabolism? Controlled studies with a rodent model** J. Grønli (Bergen, NO)
14:30 - 15:00	**161**	**Circadian misalignment and metabolic dysfunction in shift workers** S. Banks (Adelaine, AU)
15:00 - 15:30	**162**	**Sleep and health related epidemiology in shift workers** T. Åkerstedt (Stockholm, SE)

Track Human Sleep, Oral Session, Lecture Hall D

13:30 - 14:30 Sleep in children - from physiology to epidemiology

Scientific Programme

13:30 - 13:42	**O163**	**Ventilatory response to hypoxia during sleep in preterm neonates** C. Kouakam (Amiens, FR)
13:42 - 13:54	**O164**	**Sleep spindles in early adolescence: Associations with depression and thalamic glutamate/glutamine** C. Hamann (Bern, CH)
13:54 - 14:06	**O165**	**Sleep disordered breathing is associated with DNA methylation of obesity-related genes in adolescents** F. He (Hershey, US)
14:06 - 14:18	**O166**	**Dose-dependent impact of sleep loss on sustained attention in adolescents: homeostatic and circadian effects** M.A. Short (Adelaide, AU)
14:18 - 14:30	**O167**	**Longitudinal changes in sleep slow wave activity are related to functional outcome in children and adolescents with acquired brain injury** A.-L. Mouthon (Zurich, CH)

Track Translational, Symposium, Lecture Hall E

13:30 - 15:30 Do not sleep now! Consequences of maladaptive sleep

13:30 - 14:10	**168**	**Insomnia: restless REM sleep promotes nocturnal mentation and hyperarousal by interfering with the resolution of emotional distress** R. Wassing (Amsterdam, NL)
14:10 - 14:50	**169**	**A novel treatment for mental health disorders** P. Haydon (Boston, US)
14:50 - 15:30	**171**	**The effects of mistimed sleep on gene expression: implications for health** S. Archer (Guildford, UK)

Track General, ESST Meeting, Lecture Hall F

13:30 - 15:30 ESST Meeting Session 3

13:30 - 14:30	**172**	**Workshop: PSG case studies** C. Blankvoort (Zwolle, NL) R. Tijdens (Zwolle, NL)
14:30 - 15:30	**173**	**Workshop: Actigraphy** C. Teixeira (Porto, PT) M. Elbaz (Paris, FR)

Track General, Oral Session, Lecture Hall D

14:30 - 15:30 Healthcare, services, research and education

Scientific Programme

14:30 - 14:42	**O174**	**Sleepiness and traffic accidents in professional truck drivers - a 15-year follow-up study** R. Huhta (Veikkola, FI)
14:42 - 14:54	**O175**	**Changes in sleep duration, quality, and medication use are prospectively associated with health and wellbeing: analysis of the UK household longitudinal study** N.K.K. Tang (Coventry, UK)
14:54 - 15:06	**O176**	**Fat mass, lean mass, and the risk of obesity according to sleep duration in Korean adults: a cross-sectional study** K. Kim (Seoul, KR)
15:06 - 15:18	**O177**	**Circadian sleep propensity, alcohol consumption and traffic crash risk** F. De Carli (Genoa, IT)
15:18 - 15:30	**O178**	**The Impact of shiftwork on cognition across the late adult lifespan** K. Bokenberger (Stockholm, SE)

Track General, Keynote Lecture, Lecture Hall A

16:00 - 16:45 Keynote Lecture 1 A. Lüthi

16:00 - 16:45	**179**	**Coordinated infra-slow neural and cardiac oscillations mark fragility and offline periods in mammalian sleep** A. Lüthi (Lausanne, CH)

Track General, Keynote Lecture, Lecture Hall B

16:00 - 16:45 Keynote Lecture 2 A. Malhotra

16:00 - 16:45	**180**	**Novel concepts on pathophysiology and treatment of OSA** A. Malhotra (Boston, US)

Track General, Other Session, Lecture Hall A

17:00 - 18:30 ANSS Networking Meeting

17:00 - 17:15	**181**	**Short history of the ANSS and its projects** L. Parrino (Parma, IT)
17:15 - 17:30	**182**	**Sleep medicine as speciality/sub-speciality** D. Pevernagie (Gent, BE)
17:30 - 17:45	**183**	**Horizon 2020** R. Amici (Bologna, IT)
17:45 - 18:00	**184**	**OSA scoring/PAP survey: comparison between countries** E. Sif Arnardottir (Reykjavik, IS)

Scientific Programme

18:00 - 18:15	**185**	**Implementation of European guidelines within the different countries** Z. Dogas (Split, HR)
18:15 - 18:30	**186**	**EU directive on driving licenses in the NSS** M. Gonçalves (Porto, PT)

Track Neuropsychiatry, European Network Session, Lecture Hall B

17:00 - 18:30 European Network Session 1 - The European Insomnia Network: an update

17:00 - 17:20	**187**	**Insomnia disorder: understudied and underfunded** K. Spiegelhalder (Freiburg, DE)
17:20 - 17:40	**188**	**Broad range of cognitive and metacognitive processes in insomnia disorder: an overview** L. Palagini (Pisa, IT)
17:40 - 18:00	**189**	**Defining the role of sleep-related attentional bias in insomnia disorder** S.D. Kyle (Oxford, UK)
18:00 - 18:20	**190**	**Internet- and smartphone-based treatment of insomnia** J. Lancee (Amsterdam, NL)
18:20 - 18:30		**Discussion**

Track Respiratory, European Network Session, Lecture Hall C

17:00 - 18:30 European Network Session 2 - Sleep apnea

17:00 - 17:05		**Introduction** S.E.E. Schiza (Crete, GR)
17:05 - 17:20	**191**	**Cardiovascular disease and insomnia complaints – the dominant determninats for OSA phenotypes?** U. Anttalainen (Turku, FI)
17:20 - 17:35	**192**	**Hypertension in relation to OSA and PLM** C. Lombardi (Milan, IT)
17:35 - 17:50	**193**	**Gender effects on blood pressure control in hypertensive sleep apnea patients** S. Svedmyr (Gothenburg, SE)
17:50 - 18:05	**194**	**OSA, renal dysfunction, and metabolic comorbidities** O. Marrone (Palermo, IT)
18:05 - 18:20	**195**	**Metabolic consequences of OSA treatment – analysis in a pre-selected cohort of CPAP users** O. Basoglu (Izmir, TR)

Scientific Programme

18:20 - 18:30	**196**	**Concluding remarks** G. Parati (Milan, IT)

Track Neuropsychiatry, European Network Session, Lecture Hall D

17:00 - 18:30 European Network Session 3 - EURLSSG Network: Interrelationship between RLS and Medical Disorders

17:00 - 17:15	**197**	**Prevalence of RLS in patients with resistant hypertension: a cross sectional, bi-centric cohort study** R.M. Bruno (Pisa, IT)
17:15 - 17:30	**198**	**Attention deficit hyperactivity disorder and obsessive compulsive disorder in adult patients with RLS** I. Ghorayeb (Bordeaux, FR)
17:30 - 17:45	**199**	**RLS in end stage renal disease patients- an update** G. Hadjigeorgiou (Larissa, GR)
17:45 - 18:00	**200**	**Effects of Hypoxia: Acute exposure to high altitude during sleep in RLS and healthy controls** A. Stefani (Innsbruck, AT)
18:00 - 18:30		**General discussion: EURLSSG issues**

Track Neuropsychiatry, European Network Session, Lecture Hall E

17:00 - 18:30 European Network Session 4 - European Narcolepsy Network EU-NN: The European Narcolepsy Network 2014-2016

17:00 - 17:25	**201**	**Result from the prospectiv EU-NN database** R. Khatami (Barmelweid, CH)
17:25 - 17:50	**202**	**Hypocretin-reactive CD4+ Tcells in narcoleptic patients** U. Kallweit (Berne, CH) C. Bassetti (Berne, CH) F. Sallusto (Bellinzona, CH)
17:50 - 18:10	**204**	**A/H1N1 antibodies and TRIB2 autoantibodies in narcolepsy patients diagnosed in conjunction with the Pandemrix vaccination campaign in Sweden 2009-2010** A. Lind (Lund, SE)
18:10 - 18:25	**205**	**Presentation of future scientific Projects of EU-NN** G. Mayer (Schwalmstadt-Treysa, DE)

Track General, ESST Meeting, Lecture Hall F

17:00 - 18:30 ESST Meeting Session 4

Scientific Programme

17:00 - 17:30	**206**	**Recent updates to AASM scoring guidelines** D. Andries (Berne, CH)
17:30 - 18:00	**207**	**Polysomnographic approach to narcolepsy and central disorders of hypersomnolence** M. Iloti (Bologna, IT)
18:00 - 18:30		**Closing comments & vision for ESST going forward**

Track General, Poster, Poster Exhibition

18:30 - 20:00 Poster Session 1

P001	**Efficacy of THN102, a new combination between modafinil and flecainide low-dose, during total sleep deprivation in healthy subjects** F. Sauvet (Brétigny sur Orge, FR)
P002	**Sleep effects of low doses of mirtazapine and quetiapine in a traffic noise model of transient insomnia** M. Lancel (Assen, NL)
P003	**Drosophila Shaker mutant as model for studying the neurobiology of sleep and mood disorders: effects of lithium and memantine on protein expression, activity and sleep** F. Cadeddu (Monserrato, IT)
P004	**Regional dopaminergic signaling and the consequences of sleep loss in humans** S. Holst (Zurich, CH)
P005	**Functional polymorphisms influencing systemic levels of inflammatory biomarkers in sleep apnea** M. Hobzova (Olomouc, CZ)
P006	**Sleep and wakefulness duration are regulated by MAPK1 and MAPK3 phosphorylation** M. Tafti (Lausanne, CH)
P007	**Involvement of Ca2+-dependent hyperpolarization in sleep duration in mammals** S. Shi (Bunkyo-ku, Tokyo, JP)
P008	**In vitro generation of HCRT and MCH expressing neurons from mouse fibroblasts** A. Seifinejad (Lausanne, CH)
P009	**Role of GNAS imprinted gene in neurodevelopment, sleep and cognition** C. Garcia-Garcia (Genoa, GE, IT)
P010	**H1N1 HA-specific T-cells can be readily detected in narcolepsy type 1** R. Fronczek (Leiden, NL)

Scientific Programme

P011 **Lower delta, theta and sigma EEG power are associated with cognitive impairement in a aging population**
J. Taillard (Bordeaux, FR)

P012 **Dynamics of cortical network activity in non-rapid eye movement sleep in early and late adulthood mice**
L.E.E. McKillop (Oxford, UK)

P013 **The effects of menopause on sleep pattern**
S. Ji (London, Greater London, UK)

P023 **Conditional ablation of melanin-concentrating hormone neurons attenuate NREM sleep in mice**
A. Terao (Sapporo, Hokkaido, JP)

P024 **LFP and EEG responses in cerebral cortex related to cardiac activity in the sleep-wake cycle in cats**
V. Lavrova (Moscow, RU)

P025 **Sleep deprivation modulates cortical microglia in mice -an in vivo two-photon fluorescent imaging study**
H.-K. Wigren (Helsinki, FI)

P026 **Quantitative study of Ponto-geniculo-occipital activity of REM sleep episodes in the laboratory cat**
C. Bódalo (Madrid, ES)

P027 **EEG dissociation induced by muscarinic receptor antagonists: slow waves and sleep spindles together with coherent 40 Hz oscillations**
P. Torterolo (Montevideo, UY)

P028 **Early hemodynamic response to single-pulse transcranial magnetic stimulation over previously inhibited or excited primary motor cortex**
C. Gorban (Bern, CH)

P029 **Sleep homeostatic and waking behavioral phenotypes in Egr3-deficient mice associated with serotonin receptor 5-HT2 deficits**
J. Grønli (Bergen, NO)

P030 **Lateralized rhythmic acoustic stimulation during NREM sleep**
P. Simor (Budapest, HU)

P031 **Gudden´s dorsal tegmentum is a critical target for serotonergic modulation of sleep-wake cycles**
P. Bonnavion (Brussels, BE)

P032 **Optogenetic modulation of sleep slow wave after focal ischemic stroke**
L. Facchin (Bern, CH)

P033 **Coherence of the EEG high frequency oscillations (110-160 Hz) during sleep and wakefulness**
M. Cavelli (Montevideo, Non-USA, UY)

Scientific Programme

P034 **Role of REM sleep, melanin concentrating hormone and orexin/hypocretin systems in the neuroprotective effect of sleep deprivation pre-ischemia preconditioning**
L. Facchin (Bern, CH)

P155 **Effects of acupuncture of Zusanli (ST-36) on pain-induced sleep disruption**
P.-L. Yi (Tainan, TW)

P166 **30 Hz transcranial alternating current stimulation on frontal cortex blocks the spontaneous sleepiness associated with resting state with eyes closed**
A. D'Atri (Rome, IT)

P167 **Spike-wave discharges and sleep-wake cycle alterations in a mouse model of epileptic encephalopathy**
F. Del Gallo (Verona, VR, IT)

P168 **Spinal cord fibers, transmitting somatic information in wakefulness, are engaged in transmission of the visceral information during sleep**
I. Pigarev (Moscow, RU)

P169 **Effects of exercise on cytokine in spontaneous hypertension rats as an animal model of sleep-related movement disorders**
A. Esteves (Limeira, São Paulo, BR)

P170 **Light-induced melatonin suppression in children under exposure to different color temperature of lights at night**
S. Lee (Fukuoka, Fukuoka, JP)

P171 **Tibialis anterior motor activity during sleep in rats with chronic intrathecal infusion of selective D3 dopamine-agonist**
V. Lo Martire (Bologna, IT)

P172 **Perinatal nicotine exposure changes sleep in adulthood**
G. Zoccoli (Bologna, IT)

P173 **Sleep apneas in a mouse model of atypical Rett syndrome disease**
S. Bastianini (Bologna, Italy, IT)

P035 **Eating during the nightshift: the impact of meal timing on driving performance during simulated shift work**
C. Gupta (Adelaide, SA, AU)

P036 **Monochromatic light exposure: effects on daytime sleepiness**
A. Costanzo (Caserta, IT)

P037 **Sleepiness and melatonin suppression during evening exposure to blue-depleted and violet-enriched white light**
L. Schlangen (Eindhoven, NL)

P038 **Chronotype-specificity in cortical thickness - grey matter reflects when you go to bed**
J. Rosenberg (Jülich, DE)

Scientific Programme

P039 **Inter-individual variability in the adaptation of the circadian system to consecutive night shifts in intensive care unit (ICU) workers**
J.E. Stone (Melbourne, VIC, AU)

P040 **Sleep, alertness and alertness management among commercial airline pilots on short-haul and long-haul flights**
M. Sallinen (Helsinki, FI)

P041 **Three decades of continuous motor activity recording: analysis of sleep duration**
A. Borbély (Zurich, CH)

P042 **Factors associated with daytime sleepiness in commercial airline pilots**
L. Laberge (Saguenay, QC, CA)

P043 **Evening bright light and melatonin suppression in preschool children**
M. Le Bourgeois (Boulder, US)

P044 **Circadian rhythm in the nasal mucosa: the effect of dexamethasone and allergic rhinitis on the nasal clock**
A. Honma (Sapporo, JP)

P045 **Sleep propensity under forced desynchrony in a model of arousal state dynamics**
S. Postnova (Sydney, NSW, AU)

P046 **Blue-enriched morning light as countermeasure to light at the wrong time: effects on alertness, cognition, sleep and circadian phase**
D. Kunz (Berlin, DE)

P047 **Dim light at night changes sleep patterns in mice**
M. Panagiotou (Leiden, NL)

P048 **Individual differences in sleep timing relate to melanopsin-based phototransduction in healthy adolescents and young adults**
E.J. Van Someren (Amsterdam, NL)

P049 **Helsinki sleep factory: a new gamified intervention to help adolescents with circadian regulation problems**
A.-K. Pesonen (Helsinki, FI)

P174 **JZP-110, a dopamine-norepinephrine reuptake inhibitor with wake-promoting effects, has low abuse potential: in vitro and in vivo studies**
J. Black (Palo Alto, US)

P175 **The interest of extended sleep on anxiety-like behaviour in rats**
R. Dorey (Bretigny sur orge, FR)

P176 **The relationship between quality of sleep and emotional empathy**
V. Guadagni (Calgary, AB, CA)

P177 **Behavioural effects of low intensity radiofrequency electromagnetic fields**
F. Del Vecchio (Bologna, IT)

Scientific Programme

P178 **The effects of LED lighting on sleep and sleepiness**
S. Peracchia (L'Aquila, IT)

P179 **Sleep in cross-fostering rats**
O. Santangeli (Helsinki, FI)

P180 **Diurnal preference, subjective sleepiness and the response to morning light in relation to polymorphisms in the human clock gene Period3**
A. Biscontin (Padova, IT)

P181 **Sleep deprived rats show disruptions in operant conditioning behaviour most likely reflecting impaired prefrontal cortex function**
J. Kamphuis (Assen, NL)

P182 **Associations between chronotype, social jetlag and diet in UK adults**
G.D.M. Potter (Leeds, UK)

P183 **Electronic media use and the blurriness of bedtime: introducing sleep displacement as a two-stage process**
L. Exelmans (Leuven, BE)

P060 **Learning as a model of synaptic plasticity in primary insomnia**
E. Hertenstein (Freiburg, DE)

P061 **Privileged processing of emotional and self-relevant stimuli persists in unconscious N2 sleep**
C. Blume (Salzburg, AT)

P062 **Forming and storing memories in the selective sleep-deprived cats**
L. Maisuradze (Tbilisi, GE)

P063 **Intrusive memories of an analogue traumatic event reduced with prolonged wakefulness**
K. Porcheret (Oxford, UK)

P064 **Does one night of sleep modulate event cued prospective memory retrieval? An ERP investigation**
N. Kashyap (Guwahati, IN)

P065 **Sleep spindles and intellectual ability: epiphenomenon or intrinsically linked?**
Z. Fang (London, ON, CA)

P066 **Hypothalamic peptidergic neurons regulates sleep/wakefulness and memory**
A. Yamanaka (Nagoya, JP)

P067 **The effect of napping on the consolidation of explicit and implicit information**
F.J. van Schalkwijk (Salzburg, AT)

P068 **The impact of entraining sleep spindles on sleep dependent motor memory consolidation: a TES-EEG approach**
P. Fuchs (Salzburg, AT)

Scientific Programme

P069 **The effects of learning monologues on subsequent sleep in actors and non-actors**
F. Conte (Caserta, IT)

P070 **Dancing in the dark: sleep-dependent motor skill memory consolidation and periodic limb movement disorder**
V. Sergeeva (London, ON, CA)

P071 **Mind over mattress: does sleep play a role in enhancing the spatial representation of implicitly learned visual-motor sequences to facilitate development of explicit sequence awareness?**
J. Viczko (London, ON, CA)

P072 **Cognitive performance and sleep spindles in adolescents: preliminary data from a sleep restriction protocol**
C.M. Reynolds (Adelaide, SA, AU)

P073 **Associations between sleep and psychomotor development in 8- and 24-monthold children**
T. Mäkelä (Tampere, FI)

P074 **Evening cortisol level is associated with spindle activity the following night**
A.-K. Pesonen (Helsinki, FI)

P075 **The impact of memory strength on sleep-associated memory consolidation**
D.P.J. Heib (Salzburg, AT)

P184 **A failure to replicate the nightmare protective function of video and internet gaming**
M. Blagrove (Swansea, UK)

P185 **Electrophysiological predictors of dream recall: state- or trait-like differences?**
S. Scarpelli (Rome, IT)

P186 **EEG correlates of dream recall in elderly**
S. Scarpelli (Rome, IT)

P187 **Smart dreams: do smart people dream smarter?**
S. Fogel (Montreal, CA)

P188 **The dream self's perception of aggressions and its avoidance or confrontation reactions**
I. Saez-Uribarri (Madrid, ES)

P189 **Relationship between dream content and the state of anxiety upon awakening**
I. Saez-Uribarri (Madrid, ES)

P190 **The dream-lag effect: partial replication for REM sleep dreams that does not extend to daydreams**
E. van Rijn (Swansea, UK)

Scientific Programme

P191 **Sleepiness at the wheel and traffic accidents: a systematic review and meta-analysis**
P. Philip (Bordeaux, FR)

P192 **Two days sleep debt causes mood decline during resting state via diminished amygdala-prefrontal connectivity: fMRI study**
Y. Motomura (Kodaira, JP)

P193 **Total sleep deprivation does not impact emotion categorisation in dynamic stimuli**
J.B.C. Holding (Stockholm, SE)

P194 **Sleep disruption and glial activation: co-contributors to musculoskeletal pain**
M. Opp (Seattle, US)

P195 **Individual differences in working memory impairment modulate proactive interference after sleep deprivation**
L. Riontino (Trieste, IT)

P196 **Decreased levels of salivary alpha-amylase are associated with greater driving performance deficits following one night of sleep deprivation**
M. Pajcin (Adelaide, SA, AU)

P197 **The effects of chronic and acute sleep deprivation on executive functions and emotion regulation**
C. Lombardo (Rome, IT)

P198 **Relationship between short sleep duration and cardiovascular risk factors in a multi-ethnic cohort - the HELIUS study**
K.O. Anujuo (Amsterdam, NL)

P199 **Relationship between sleep duration and arterial stiffness in a multi-ethnic population: the HELIUS study**
K.O. Anujuo (Amsterdam, NL)

P200 **Homeostatic regulation of REM sleep in narcoleptic mice**
C. Peyron (Lyon, FR)

P201 **Napping reverses increased pain sensitivity due to sleep restriction**
B. Faraut (Paris, FR)

P202 **Sleep deprivation modulates resting-state slow wave/fast wave ratio and cognitive reappraisal of emotional stimuli: an EEG study**
J. Zhang (Hong Kong, HK)

P203 **Effects of extended wakefulness and polychromatic light exposure after recovery sleep on cognitive performance and objective sleepiness**
J. de Zeeuw (Berlin, DE)

P204 **How does sleep deprivation during night shifts affect junior doctors' cognitive performance: a pilot study**
M.V. Capanna (Southampton, UK)

Scientific Programme

P205 **Effects of partial sleep deprivation on energy intake in good sleepers and participants reporting symptoms of chronic insomnia**
C. Lombardo (Rome, IT)

P206 **Women sleep better and have a stronger response to late night curtailed sleep than men, particularly in older individuals - effects on polysomnographical sleep**
T. Åkerstedt (Stockholm, SE)

P207 **A validation study of three wearable sleep monitors against polysomnography in assessing sleep quality in healthy nurses in a tertiary hospital**
K.H.C. Lim (Singapore, SG)

P208 **The DSPS-4: A brief measure of perceived daytime sleepiness**
M.H. Azevedo (Coimbra, PT)

P209 **The Tiredness Symptoms Scale and the Karolinska Sleepiness Scale during 40 hours of wakefulness: a comparison**
F. Bes (Berlin, DE)

P210 **Using accelerometers for sleep-wake classification**
J. Virkkala (Helsinki, FI)

P211 **Regional differences in the dynamics of sleep homeostasis in mice: empirical data and simulations**
M.C.C. Guillaumin (Oxford, UK)

P212 **Automatic analysis of single-channel sleep EEG: validation in patients with mild cognitive impairment**
C. Berthomier (Paris, FR)

P213 **A preliminary assessment of the use of alternative electrode positioning for sleep EEG in humans**
C. Gudberg (Oxford, UK)

P214 **´Traumschreiber´: measuring and manipulating human sleep with a portable high-quality but low-cost polysomnographic system**
K. Appel (Osnabrück, DE)

P215 **Optimizing detection and analysis of slow waves, spindles and saw-tooth waves in sleep EEG**
A. Mensen (Barmelweid, Aargau, CH)

P225 **Calprotectin: a protein related to cardiovascular risk in adult patients with obstructive sleep apnea**
K. Cholidou (Athens, GR)

P226 **Sleep disordered breathing in young adults**
A. Krzeski (Warsaw, PL)

P227 **Long-term adherence of positive airway pressure therapy in patients with obstructive sleep apnea syndrome: what are the determining factors of good adherence?**
S.-I. Lee (Gunpo-si, KR)

Scientific Programme

P228 **A 55 year old female with late onset-congenital central hypoventilation syndrome: a case study**
Z. Fanyar (Breda, Zuid Holland, NL)

P231 **Resolution of apnoeas in slow wave sleep**
K. Lamprou (Athens, GR)

P232 **The associations of mediastinal fat and obstructive sleep apnea**
S.J. Kim (Seongnam-si, KR)

P233 **Ambulatory pathway for OSA diagnosis and PAP-titration: a single center experience**
P. Chipev (Sofia, BG)

P234 **Association between plasma uric acid levels and metabolic syndrome components in Obstructive Sleep Apnea syndrome**
L. Puiu (Baia-Mare, Maramures, RO)

P235 **Effects of continuous positive airway pressure therapy on blood pressure and arterial stiffness in obstructive sleep apnea syndrome patients with hypertension and type 2 diabetes**
T. Wago (Yokohama, JP)

P236 **Noninvasive ventilation in an extreme hypercapnic overlap syndrome (hypoventilation-obesity syndrome, sleep apnea, COPD exacerbation) in a patient who refused tracheal intubation**
G. Jimborean (Tirgu Mures, Mures, RO)

P237 **Value of nocturnal oximetry in prediction of obstructive sleep apnea hypopnea syndrome**
L. Suliman (Mansoura, doctor, EG)

P238 **May the combination of oximetry with sleep questionnaires facilitate the decision of OSA treatment with CPAP?**
A. Pataka (Thessaloniki, GR)

P239 **Variables correlated with supine position time in obstructive sleep apnea syndrome**
D.-H. Park (Seoul, KR)

P240 **Sleep position trainer for positional obstructive sleep apnea syndrome (POSAS): results of daily practice**
M. Smits (Ede, NL)

P241 **Evaluation of adenotonsillectomy in pediatric obstructive sleep apnea by cyclic alternating patten analysis and the OSA-18 questionnaire**
H. Moriwaki (Meguro-ku, Tokyo, JP)

P242 **The effect of Sleep Disordered Breathing (SDB) on declarative and non-declarative memory in children and adults**
E. Csabi (Szeged, HU)

P243 **The polysomnographic variants of the obstructive sleep apnea**
S.O. Kravchenko (Moscow, RU)

Scientific Programme

P245 **Symptoms of obstructive sleep apnoea are common in adults with Down syndrome despite previous adenoid/tonsillar surgery**
E. Hill (Edinburgh, UK)

P246 **Symptoms of sleep disordered breathing (SDB) in patients with Parkinson's disease**
A. Ylikoski (Helsinki, FI)

P247 **Comparison in patients' backgrounds between two sleep out-patient units in Japan**
H. Kadotani (Otsu, JP)

P248 **CPAP-induced hyperkapnia - unknown but very important in continous-positive-airway-pressure (CPAP) non-adherence**
W. Böhning (Bad Lippspringe, DE)

P249 **Therapy of OSA by mandibular advancement device therapy - effects of a crossover trial of SomnoDent® and CPAP on respiration and daytime cardiac autonomic function**
M. Glos (Berlin, DE)

P250 **Sleep disordered breathing and quality of life in myasthenia gravis: a cross-sectional study**
E.F. Oliveira (Sao Paulo, BR)

P251 **The sensitivity and specificity of the STOP-Bang Questionnaire, Berlin Questionnaire, and Epworth scale for identifying obstructive sleep apnea in Polish population**
H. Martynowicz (Wroclaw, PL)

P252 **Random crossover comparison of the effects on sleep disordered breathing related symptoms between mandibular advancement device with compliance monitor and continuous positive airway pressure**
U. Yamamoto (Fukuoka, JP)

P253 **Antero-cervical thermophysiological characterization of obstructive sleep apnea patients**
M. Drummond (Porto, PT)

P254 **High prevalence of obstructive sleep apnoea in selected patients with arterial hypertension**
N. Stigter (Nieuwegein, Utrecht, NL)

P255 **Sleep position therapy; customized therapy for position related sleep apnea**
N. Stigter (Nieuwegein, Utrecht, NL)

P256 **Sleep quality during polysomnographies depends on certain weekdays compared to sleep at home in patients with suspected sleep apnea: impact on diagnostic and therapeutic procedures**
A. Rodenbeck (Berlin, DE)

P257 **Cognitive functions in patients with obstructive sleep apnea**
O. Erdinc (Eskisehir, TR)

Scientific Programme

P258 **Usefulness of adding forehead EEG signals to portable respiration monitors for the diagnosis of obstructive sleep apnea syndrome**
M. Kobayashi (Tokyo, JP)

P259 **Maternal sleep position, sleep disordered breathing and fetal heart rate**
J. Dorrian (Adelaide, SA, AU)

P260 **Effect of time in supine position on severity of obstructive sleep apnea**
A. Kulkas (Seinäjoki, FI)

P262 **Coagulation markers in patients with obstructive sleep apnea syndrome and effects of continuous positive airway pressure**
A. Litvin (Moscow, RU)

P263 **Prevalence and risk factors for obstructive sleep apnea syndrome (OSAS) in professional drivers**
D. Tonon (Negrar, VR, IT)

P264 **Incidence and prevalence of Temporo Mandibular Disorders TMD in patients at baseline and during 4 years follow-up treatment with Mandibular Advance Device MAD**
P. Mayoral Sanz (Madrid, Madrid, ES)

P265 **Associations between obstructive sleep apnea and measures of arterial stiffness**
J. Theorell-Haglöw (Sydney, NSW, AU)

P266 **Mandibular advance device reduces nocturia in patients with obstructive sleep apnea**
P. Mayoral Sanz (Madrid, Madrid, ES)

P267 **Is red blood cell distribution width related to severity of obstructive sleep apnoea syndrome?**
R. Linhas (Vila Nova de Gaia, PT)

P268 **The rule of age, sex and neck on overnight oxygen saturation in obese patients**
D. Trevisan (Negrar, VR, IT)

P269 **Effect of continuous positive airway pressure treatment on red blood cell and platelet parameters in patients with obstructive sleep apnoea syndrome**
A. Marçôa (Vila Nova de Gaia, PT)

P270 **Evaluation of the Brussels Questionnaire as a screening tool for obstructive sleep apnea syndrome**
N. Peto (Budapest, HU)

P050 **Psychological vulnerability to sleep disorders in workers**
B. Voinescu (Cluj-Napoca, RO)

P051 **Impact of shift work on sleep and daytime performance among health care professionals**
S. Alshahrani (Riyadh, SA)

Scientific Programme

P052 **Patient Reported Outcome Measures (PROMs) for melatonin treatment**
M. Smits (Ede, NL)

P053 **Are cognitive “insomnia” processes involved in the development and maintenance of Delayed Sleep-Wake Phase Disorder? Treatment effects and comparisons with good sleepers**
C. Richardson (Adelaide, SA, AU)

P054 **Cognitive performance in adolescents with Delayed Sleep-Wake Phase Disorder: treatment effects and comparisons with good sleepers**
C. Richardson (Adelaide, SA, AU)

P055 **Altered distribution of resting periods of daily locomotor activity in circadian rhythm sleep disorder subjects**
M. Hirose (Toyoake, JP)

P056 **Melatonin and cortisol profiles in blindness**
S. Aubin (Montreal, QC, CA)

P057 **Height differences between non-24-hour sleep-wake rhythm disorder patients and healthy controls**
P. Baroldi (Washington, DC, US)

P058 **Reduction in Delta stage sleep in Addison's disease patients may be related to altered circadian rhythms**
M. Henry (Cape Town, Western Cape, ZA)

P059 **Comparison of sleep parameters and quality of life between shift-working and non-shift-working nurses**
S.C. Hong (Suwon, KR)

P076 **Role of sleep misperceptions in relationship between co-morbid insomnia and obstructive sleep apnea**
A. Sweetman (Adelaide, AU)

P077 **Examining insomnia subtypes in patients with co-morbid insomnia and sleep apnea**
A. Sweetman (Adelaide, AU)

P078 **Predisposing factors associated with insomnia in nursing and social sciences college students**
Z. Moked (Haifa, IL)

P079 **Comparison of Athen´s Insomnia Scale and Insomnia Severity Index**
N.U. Haq (Quetta, Balochistan, PK)

P080 **CBT improves not only sleep indexes but also psychometric scales on contrary to pharmacological treatment**
M.G.G. Poluektov (Moscow, RU)

P081 **i-Sleep: internet-based intervention against insomnia**
S.B. Duss (Bern, CH)

Scientific Programme

P082 **Sleep coaching - a new approach in the psychological treatment of insomnia PSQI results after a two-day training course**
B. Holzinger (Vienna, AT)

P083 **Status of patients with chronic insomnia: lifestyle, believes, medication and psychiatric comorbidity**
M. Pintor-Zamora (Madrid, ES)

P084 **Amitriptyline for chronic primary insomnia: results of patient reported outcome measures (PROM)**
M. Smits (Ede, NL)

P085 **The imaginative distention: a promising therapy for insomnia? The DIMMI SI trial results**
A. Sgoifo (Milano, IT)

P086 **Annual incidence of insomnia in a population-based sample over a 5-year period**
D. Jarrin (Québec, CA)

P087 **The European Portuguese version of the Ford Insomnia Response to Stress Test (FIRST)**
M.H. Azevedo (Coimbra, PT)

P088 **Insomnia is associated with impaired response time but not accuracy on facial memory recall task**
U. Akram (Newcastle upon Tyne, UK)

P089 **Insomnia specific rumination is related to both trait and state dependent arousal in insomnia disorder**
I. Mazzei (Pisa, Pisa, IT)

P090 **Emotion deregulation depends on sleep related metacognition in insomnia disorder**
T. Agnello (Pisa, Pisa, IT)

P091 **The influence of written therapeutic feedback in Internet delivered cognitive behavioural therapy for insomnia in adolescents**
E. de Bruin (Amsterdam, NL)

P092 **Cost-effectiveness of group- and Internet cognitive behavioural therapy for insomnia in adolescents: results from a randomized controlled trial**
E. de Bruin (Amsterdam, NL)

P093 **Insomnia: restless REM sleep promotes nocturnal mentation and hyperarousal by interfering with the resolution of emotional distress**
R. Wassing (Amsterdam, NL)

P094 **Experienced Temperature Sensitivity and Regulation Survey (ETSRS): validation of a comprehensive quantifying scale, sensitive to differences between probable insomnia and controls**
K. Dekker (Amsterdam, Noord-Holland, NL)

P095 **The effects of a nurse-led group treatment program for insomnia in primary care: a randomized controlled trial**
C. Sandlund (Stockholm, SE)

Scientific Programme

P096 **Sleep stage dynamics reveal specific stage 2 instability in insomnia**
Y. Wei (Amsterdam, NL)

P097 **The effective treatment of insomnia with co-morbid depression**
L. Lack (Eden Hills, AU)

P098 **People with insufficient sleep increased in the evacuation zone of Fukushima Prefecture after the Great East Japan Earthquake: the Fukushima health management survey**
T. Ohira (Fukushima, JP)

P099 **Next-morning effects of hypnotic drugs on attention, psychomotor performance, and memory functioning: implications for traffic safety**
J.C. Verster (Utrecht, NL)

P100 **The impact of dietary intake of tryptophan, niacin, and vitamin B6 on sleep**
J.C. Verster (Utrecht, NL)

P271 **Melatonin effects in REM Sleep Behavior Disorder associated with Obstructive Sleep Apnea syndrome: a case series**
C. Schaefer (Berlin, Berlin, DE)

P272 **A puzzling case of hypnic hiccups**
S.H. Erikkson (London, UK)

P273 **Nightmares predict next-day interpersonal functioning in nightmare sufferers using ecological momentary assessment**
S. Suh (Palo Alto, CA, US)

P274 **Dream types, dream themes, and negative emotion intensity of dreams in nightmare sufferers compared to healthy controls**
R. Lee (Seoul, KR)

P275 **Can neurodegenerative conversion of REM sleep behavior disorder be halted by melatonin treatment? A case report**
D. Kunz (Berlin, DE)

P276 **Cognitive, olfactory and motor functions in idiopathic REM sleep behavior disorder**
S. Wisniewski (Berlin, DE)

P101 **Insomnia in early Parkinson disease. The Norwegian ParkWest study**
L.K. Tholfsen (Stavanger, NO)

P102 **The influence of sleep on Parkinson's symptoms; a grounded theory study**
M. van Gilst (Nijmegen, NL)

P104 **The symptom severity of restless legs syndrome and obesity**
Y.W. Cho (Daegu, KR)

P105 **Pallesthesia asymetry: a new way to help diagnose of PLMS**
D. Cugy (Bordeaux, FR)

Scientific Programme

P106 **Anatomical recommendations for safe botulinum toxin injection into temporalis muscle in sleep bruxism patients: a simplified reproducible approach**
J.J. Kim (Seoul, KR)

P107 **Effects of moderate to severe periodic limb movement in sleep (PLMS) on sleep parameters: a retrospective hospital-based observational study**
S.Y. Chou (Taichung, TW)

P108 **Adaptative segmentation method of a thermal signal representing sleep movement in the bed**
T. Guettari (Compiegne, FR)

P110 **Rates of loss of response and augmentation during treatment of restless legs syndrome/Willis Ekbom disease with low doses of dopamine agonists**
D. Garcia-Borreguero (Madrid, ES)

P277 **Evaluation of the human abuse liability of JZP-110, a wake-promoting agent**
L.P. Carter (Palo Alto, CA, US)

P278 **JZP-110 significantly improves 20-minute-censored maintenance of wakefulness test sleep latency in narcolepsy patients**
J. Black (Palo Alto, US)

P279 **Correlation analysis of the Epworth Sleepiness Scale and the Maintenance of Wakefulness Test in data from two trials of sodium oxybate for narcolepsy**
G. Mayer (Schwalmstadt-Treysa, DE)

P280 **Narcolepsy type 1 and pregnancy: a case-control study**
E. Calvo-Ferrándiz (Madrid, ES)

P281 **Nocturnal eye movements in narcolepsy**
J.A.E. Christensen (Glostrup, DK)

P282 **Mean latency of eye movement and other REM sleep parameters in narcoleptics**
A. Wichniak (Warsaw, PL)

P283 **A systematic review of cognitive function and psychosocial well-being in school-age children with narcolepsy**
J. Blackwell (Leeds, UK)

P284 **Case study: combined cellular and humoral immunomodulatory treatment in early cases of H1N1-vaccinated and sporadic narcolepsy type 1**
R. Viste (Oslo, NO)

P285 **Physical activity tolerance is related to sleep duration as estimated by actigraphy in patients suffering from narcolepsy**
D. Kemlink (Praha, CZ)

P286 **Acute psychotic disorder in 4 type 1 narcolepsy patients following medication**
C. Crowe (Dublin, IE)

Scientific Programme

P287 **A possible case of Kleine-Levin syndrome presenting as repeated episodes of stupor**
T. Kitajima (Toyoake, Aichi, JP)

P289 **Is HPV (human papilloma virus) vaccine associated with later onset of Narcolepsy type 1?**
E. Torstensen (Glostrup, DK)

P290 **Narcolepsy type 1 is associated with executive dysfunction**
H. Andresen (Oslo, NO)

P291 **Narcolepsy associated with H1N1-vaccination in Norway during 2009-2015**
S. Knudsen (Oslo, NO)

P292 **Antidepressants substantially affect basic REM sleep characteristics in narcolepsy-cataplexy patients**
J. Bušková (Prague, CZ)

P111 **Acoustic Characteristics of Stridor in Multiple System Atrophy**
D.L. Koo (Seoul, KR)

P112 **A case of isolated cataplexy associated with prolactinoma**
D.S. Tertan (Oradea, RO)

P113 **Does sleep disordered breathing (SDB) treatment contribute to seizure management in epileptic patients? A case report**
A. Gagliardo (Palermo, IT)

P114 **Circadian phase typing in idiopathic generalized epilepsy: dlmo and patterns of melatonin secretion semicurve findings in adult patients**
R. Manni (Pavia, IT)

P115 **A case of periodic limb movement of sleep or restlessleg sindrome**
D.S. Tertan (Oradea, RO)

P116 **Cognitive evaluation with Montreal cognitive assessment (MOCA) test of patients with obstructive sleep apnea syndrome**
Y. Celik (Edirne, TR)

P117 **Sleep-sex behavior with epileptic etiology**
F. Boghez (Bucharest, RO)

P119 **Respiratory events in patient with Parkinson's diseases: clinical and neurophsiological collates**
T. Kishmaraia (Tbilisi, ---, GE)

P120 **EEG topography alterations in wakefulness and sleep in patients with mild cognitive impairment and Alzheimer's disease**
I. Truglia (Rome, IT)

P121 **The suppressive effect of rapid eye movements during REM sleep on interictal epileptic discharges (IEDs): an intracerebral EEG study in two different type of epilepsy**
C. Campana (Milan, IT)

Scientific Programme

P122 **Insomnia and depression in outpatients of dementia center**
J.H. Lee (Goyang-si, KR)

P123 **REM sleep in Parkinsonian LRRK2 mutation carriers**
A. Martinez Zuluaga (Barakaldo, ES)

P124 **Prospective analysis of sleep-related limb movements in patients with sleep apnea syndrome and transient ischemic attack**
R. Rijsman (Hague, NL)

P125 **Long-term effects of CPAP therapy on heart rate in patients with resistant hypertension and obstructive sleep apnea - a retrospective case-control study**
S. Mihaicuta (Timisoara, RO)

P126 **Alcohol and metabolic syndrome in patients with obstructive sleep apnea syndrome**
S.-I. Lee (Gunpo-si, KR)

P127 **Association between sleep deprivation and chronic periodontitis among beedi workers of Mangalore city**
E. Aluckal (Ernakulam, Kerala, IN)

P128 **Relationship between high fasting glucose level and sleep quality in the health screening program of South Korea**
B.K. Kim (Yangsan, KR)

P129 **Relationships between BMI and sleep duration and efficiency among older adults ages 70 and above**
T. Shochat (Haifa, IL)

P130 **Obtructive sleep apnea and early appearance of chronic kidney disease**
P. Doina (Constanta, RO)

P131 **Homeostatic sleep deregulation in an animal model of hyperammonaemia**
S. Marini (Padova, IT)

P132 **Digital cognitive behavioural therapy for insomnia in a medical population: evidence from the sleep to lower elevated blood pressure trial (SLEPT)**
C.A. Espie (Oxford, UK)

P133 **Changes of polysomnography (PSG) parameters in patients with cognitive disorders after cardiac surgery**
E. Tsitlidze (Tbilisi, ---, GE)

P134 **A systematic review of polysomnographic variables in patients with myasthenia gravis**
E.F. Oliveira (Sao Paulo, BR)

P135 **Assessment of cardiovascular risk burden in subjects with obstructive sleep apnea syndrome**
K.J. Hwang (Seoul, KR)

Scientific Programme

P136 **Sleep patterns in women with and without systemic lupus erythematosus**
Y.-C. Cheng (Taipei, Taiwan, TW)

P137 **Relationship between sleep disorders and cardio-vascular disease in Korean population**
W.-J. Kim (Seoul, KR)

P138 **Age modifies the association between sleep duration and mortality**
F. Ghilotti (Stockholm, SE)

P293 **The comparative associations of objective and subjective sleep disturbance with cognitive function in older men with comorbid depression and insomnia**
D.J. Biddle (Camperdown, NSW, AU)

P294 **Rapid eye movement fragmentation predicts deficits in memory retention in trauma survivors**
G. Lipinska (Cape Town, ZA)

P295 **Driving risks and attention deficit hyperactivity disorder don't forget to explore sleepiness**
S. Bioulac (Bordeaux, FR)

P296 **The role of sleep in suicidal thoughts and behaviours: a qualitative study**
S.D. Kyle (Oxford, UK)

P297 **Sleep quality and its association with psychological distress among undergraduate students in a Nigerian University**
C.T. Seun-Fadipe (Ile-Ife, Osun, NG)

P298 **Attention Deficit/Hyperactivity Disorder symptoms and sleep quality assessed on healty adults**
A. Costanzo (Caserta, IT)

P299 **Are daily changes in sleep parameters across good and poor sleepers linked to subsyndromal features of psychosis?**
J. Cosgrave (Oxford, Oxfordshire, UK)

P300 **The effects of a daytime nap on processing of facial emotional expression in individuals with remitted depression versus never depressed individuals**
N.T.K. Lau (Hong Kong, HK)

P301 **Sleep complaint in alcohol use disorder: relationships with structural brain alterations and cognition**
A. Laniepce (Caen, FR)

P302 **Are sleep diaries reliable in patients with sleep disorders other than insomnia?**
M. Sandelin (Örebro, SE)

P303 **A brief integrated sleep-focused treatment for persistent sleep disturbances in residual depression: an assessor-blind, parallel group, randomized controlled study**
Y.-K. Wing (Shatin, HK)

Scientific Programme

P304 **Looking into the eye of ADHD. First data on photophobia in adults with ADHD**
F. Dorani (The Hague, NL)

P305 **CRHR1 genotype and sleep in healthy volunteers**
A. Steiger (Munich, DE)

P306 **Actigraphy in Anorexia nervosa: relationship between severity of the disease and sleep abnormalities**
E. Urrestarazu (Pamplona, Not in USA, ES)

P307 **Sleep disturbances and Attention-Deficit/Hyperactivity Disorder symptoms in adult participants of the Netherlands Sleep Registry**
S. Vogel (The Hague, NL)

P139 **Sleep and lipid profile during transition from childhood to adolescence**
L. Kuula (Helsinki, FI)

P140 **A randomised controlled trial of behavioural treatments for infant sleep problems: effects on sleep, infant and maternal stress, and attachment**
M. Gradisar (Adelaide, AU)

P141 **Sleep difficulties and depressed mood in adolescents: the roles of repetitive negative thinking and perfectionism**
M. Gradisar (Adelaide, AU)

P142 **Adolescent sleep duration in relation to psychosomatic complaints: development between 1985 and 2013 in Sweden**
A. Norell-Clarke (Örebro, SE)

P143 **Sleep problems among Georgian adolescents - does internal displacement matter?!**
I. Sakhelashvili (Tbilisi, GE)

P144 **Night-waking trajectories and behavior in preschool-aged children from the EDEN birth-cohort**
E. Reynaud (Villejuif, FR)

P145 **Adenotonsillectomy complications**
S. Aydinoz (Istanbul, TR)

P146 **Does continuous partial sleep deprivation affect executive function ability in adolescents?**
M. Cohen-Zion (Tel Aviv - Jaffa, IL)

P147 **Snoring in three-month-old infants**
O. Saarenpää-Heikkilä (Tampere, FI)

P148 **Combined effects of childhood obesity and obstructive sleep apnoea on cardiovascular parameters**
R.S. Horne (Melbourne, AU)

P149 **Agreement between actigraphy and diary measures of sleep in infants**
S.-Y. Tsai (Taipei, TW)

Scientific Programme

P150 **An adolescent's worst nightmare? Altering pre-bedtime phone use to achieve better sleep health**
K. Bartel (Adelaide, AU)

P151 **Effectiveness of sleep restriction therapies for middle childhood insomnia disorder**
N. Cain (Adelaide, SA, AU)

P152 **Can simple sleep interventions 'dampen' anxiety symptoms in middle childhood?**
N. Cain (Adelaide, SA, AU)

P153 **OSAS and epilepsy in children - a potentially serious association**
M.-C. Ouayoun (Sevran, FR)

P154 **Obstructive sleep apnea syndrome: a phenotypic expression of Xq25 microduplication?**
M.-C. Ouayoun (Sevran, FR)

P014 **Ear plugs improve subjective sleep quality in younger but not older acute medical inpatients**
D.N.S. Senaratne (Oxford, UK)

P015 **Regional and frequency-specific reduction of sleep spindle density in Alzheimer disease and amnesic mild cognitive impairment**
A. Mangiaruga (Rome, IT)

P016 **Screening out threat: the impact of age, sleep and distraction on airport security**
S. Ftouni (Melbourne, VIC, AU)

P017 **Spontaneous K-complex density decrease in Alzheimer's disease**
M. Gorgoni (Rome, IT)

P018 **Changes in sleep duration during transition to statutory retirement**
S. Myllyntausta (Turku, FI)

P019 **Biopsychosocial predictors of sleep quality in retirement home residents**
A. Koscec (Zagreb, HR)

P020 **Relationship between restless legs syndrome, periodic limb movements in sleep and obstructive sleep apnea syndrome in older patients: a retrospective study**
M.-C. Ouayoun (Sevran, FR)

P021 **Use of electronic media in bed and reading in bed after bedtime - age and sex differences in a representative adult population**
B. Bjorvatn (Bergen, NO)

P216 **Reliability and validity of the Pittsburgh Sleep Quality Index in breast cancer patients**
M. Gonçalves (Porto, PT)

P217 **Portuguese version of the Arousal Predisposition Scale (APS)**
M.H. Azevedo (Coimbra, PT)

Scientific Programme

P218 **Snoring detection with emfit sleep mattress**
M. Tenhunen (Tampere, FI)

P219 **Scoring of sleep and associated events: modelling interrater variability by adjusting sensitivity settings of an auto scoring system**
P. Anderer (Vienna, AT)

P220 **Spectral coherence analysis in EEG nocturnal epilepsy recordings**
G. Busonera (Cagliari, IT)

P221 **Suitability of mandibular position assessments as an out-of-center type 4 device for the diagnosis of sleep apnea**
J.B. Martinot (Namur, BE)

P222 **SomnoDiary - application package developed for digital sleeping diary and sharing of sleep data record via cloud**
M. Schnell (Hamburg, DE)

P223 **Noise severely disrupts sleep in ventilated ICU patients throughout the 24-hour period: comparaison of sleep stages and noise levels epoch by epoch**
M. Elbaz (Paris, FR)

P224 **Tonsillectomy in adults with obstructive sleep apnea**
T. Holmlund (Umeå, SE)

P308 **Clinical pharmacology and trends in use of sedative-hypnotic and anxiolytic medications in Estonia**
K. Sonn (Tartu, EE)

P309 **The importance of semantics in a clinical setting - do patients understand what we ask them?**
N. Trajanovic (Belgrade, RS)

P310 **An evaluation of a school-based sleep education programme for adolescents**
C. Hill (Southampton, UK)

P311 **Health economic aspects of Obstructive Sleep Apnea. Evidence from 4 European countries**
S.M. Cheilari (Innsbruck, Tirol, AT)

P312 **Primary care physicians' knowledge of and attitude toward sleep medicine and sleep disorders**
A. BaHammam (Riyadh, SA)

P313 **Maternal level of self-differentiation as a regulator of toddlers' sleep**
T. Simon (Haifa, IL)

P314 **Demographics and diagnosis experience of people with narcolepsy: results from the first eight months of the Nexus Narcolepsy Registry**
K.F. Villa (Palo Alto, CA, US)

Scientific Programme

P315 **Functioning, productivity and health-related quality of life in people with narcolepsy: results from the first eight months of the Nexus Narcolepsy Registry**
K.F. Villa (Palo Alto, CA, US)

P316 **Parenting matters: a longitudinal study into parenting and adolescent sleep**
A.M. Meijer (Amsterdam, NL)

P118 **EEG topography of sleep and wake in mild cognitive impairment: a longitudinal study of early markers of conversion to Alzheimer's disease**
I. Truglia (Rome, IT)

P276a **EEG functional connectivity prior to sleepwalking: evidence of interplay between sleep and wakefulness**
M.-E. Desjardins (Montreal, QC, CA)

Scientific Programme

Thursday, 15 September 2016

Track General, Satellite Symposium, Lecture Hall C

07:15 - 08:15 Population screening - effortlessly increasing patient coverage

07:15 - 08:15	**208**	**Population Screening - Effortlessly increasing patient coverage** M. Murray (Cork, IE)

Track Translational, Joint Symposium, Lecture Hall A

08:30 - 10:30 Joint Symposium AIMS-ESRS: Unravelling the somatomotor and autonomic mess of REM sleep: networks, functions, and dysfunctions

08:30 - 09:00	**209**	**The fuzzy nature of physiological regulation during REM sleep: just random?** R. Amici (Bologna, IT)
09:00 - 09:30	**210**	**Understanding REM dysfunctions from animal models** P.-H. Luppi (Lyon, FR)
09:30 - 10:00	**211**	**Activation of the sensory-motor system during phasic REM sleep in humans** L. Nobili (Milan, IT)
10:00 - 10:30	**212**	**Looking into dissociative states from a pathophysiological perspective: RBD and oneiric stupor** F. Provini (Bologna, IT)

Track Neuropsychiatry, Symposium, Lecture Hall B

08:30 - 10:30 Nocturnal cognitions and emotions in Insomnia: from scientific data to treatment applications

08:30 - 09:00	**213**	**Dream content and cortical activity in insomnia individuals** C. Bastien (Quebec, CA)
09:00 - 09:30	**214**	**How pre-existing sleep patterns determine daytime stress reactions** E. Altena (Bordeaux, FR)
09:30 - 10:00	**215**	**Perception of sleep in insomnia disorder: a NonREM/ REM sleep awakening study** D. Riemann (Freiburg, DE)
10:00 - 10:30	**216**	**Fragmented REM-sleep in insomnia alters nocturnal cognition, impedes resolving of emotional distress, and contributes to hyperarousal** E.J. Van Someren (Amsterdam, NL)

Scientific Programme

Track Basic, Symposium, Lecture Hall C

08:30 - 10:30 Does dream content reflect memory consolidation processes during sleep?

08:30 - 09:00	**217**	**Recalling a dream related to a recent experience: does it help episodic memory consolidation?** P. Ruby (Lyon, FR)
09:00 - 09:30	**218**	**Is the REM sleep dream-lag effect evidence that dream content reflects sleep-dependent memory consolidation?** M. Blagrove (Swansea, UK)
09:30 - 10:00	**219**	**A spectrum of mechanisms for dream-mediated memory consolidation** T. Nielsen (Montreal, CA)
10:00 - 10:30	**220**	**Effects of reactivating memory content during sleep on dreaming and post-sleep memory** M. Schredl (Mannheim, DE)

Track Respiratory, Oral Session, Lecture Hall D

08:30 - 10:30 Cardiometabolic issues in sleep disorder breathing and treatment

08:30 - 08:42	**O221**	**Impact of sleep apnea on long-term prognosis in patients after acute myocardial infarction** O. Ludka (Brno, CZ)
08:42 - 08:54	**O222**	**Impact of sleep disordered breathing and home and office blood pressure on carotid arterial wall thickness: the Toon Health Study** E. Eguchi (Okayama, JP)
08:54 - 09:06	**O223**	**Childhood inflammation predicts sleep apnoea and blood pressure reactivity in adolescence: the Penn State Child Cohort** J. Gaines (Hershey, PA, US)
09:06 - 09:18	**O224**	**CPAP therapy, vitamin D and bone turnover markers - a randomized controlled trial** J. Theorell-Haglöw (Sydney, NSW, AU)
09:18 - 09:30	**O225**	**Morbidity and mortality of chronic heart failure (CHF) patients with central sleep apnoea (CSA) treated by adaptive servoventilation (ASV): interim results of FACE cohort study** R. Tamisier (Grenoble, FR)
09:30 - 09:42	**O226**	**Different regions of cerebral hypoperfusion associated with obstructive sleep apnea in NREM versus REM sleep** A.-A. Baril (Montreal, CA)
09:42 - 09:54	**O227**	**The relationship between sleep apnea, metabolic dysfunction and inflammation: the gender influence** C. Hirotsu (São Paulo, BR)

Scientific Programme

09:54 - 10:06	**O228**	**Gender-specific efficacy of Mandibular Repositioning Device (MRD) therapy in obstructive sleep apnea (OSA) patients. Subgroup analysis of ORCADES study data** M.-F. Vecchierini (Paris, FR)
10:06 - 10:18	**O229**	**Diet, exercise and armodafinil for obstructive sleep apnea patients unable to tolerate standard treatments (DEAR). A randomised, parallel group, placebo-controlled trial** J.L. Chapman (Glebe, AU)
10:18 - 10:30	**O230**	**Upper airway stimulation for obstructive sleep apnea: patient reported outcomes after 48 months of follow-up** J. Verbraecken (Antwerp, BE)

Track Translational, Symposium, Lecture Hall E

08:30 - 10:30 Circadian regulation of brain function and sleep in health and disease: recent developments

08:30 - 09:00	**231**	**Daily variations in basic neuronal function and their relationships with cognition in younger and older individuals** G. Vandewalle (Liege, BE)
09:00 - 09:30	**232**	**Ontogenesis of circadian sleep regulation in the rat: a longitudinal study under constant conditions** M. Frank (Spokane, US)
09:30 - 10:00	**233**	**Coalescence of sleep EEG rhythms: effects of circadian phase, sleep history and neurodegeneration** A.S. Lazar (Cambridge, UK)
10:00 - 10:30	**234**	**Dynamic neuronal network organization of the circadian clock and possible deterioration in disease** J. Meijer (Leiden, NL)

Track Respiratory, Symposium, Lecture Hall A

11:00 - 13:00 Obstructive sleep apnea and insomnia co-morbidity: prevalence and treatment

11:00 - 11:30	**235**	**Insomnia: an early indication of the independence of obstructive sleep apnea syndrome from obesity with co-morbid OSA** C. Guilleminault (Stanford, US)
11:30 - 12:00	**236**	**Positive airway pressure to treat co-morbid insomnia and sleep-disordered breathing: A rationale for advanced auto-adjusting dual pressure technology** B. Krakow (Albuquerque, US)
12:00 - 12:30	**237**	**Insomnia phenotypes response to obstructive sleep apnea treatment in co-morbid insomnia/OSA** E. Bjornsdottir (Reykjavik, IS)

Scientific Programme

12:30 - 13:00	**238**	**The effectiveness of cognitive behavioural therapy for insomnia patients with co-morbid obstructive sleep apnea** L. Lack (Eden Hills, AU)

Track Basic, Oral Session, Lecture Hall B

11:00 - 12:00 Physiology of sleep in humans and rodents

11:00 - 11:12	**O239**	**Sleep spindle: a local phenomenon in the human thalamus?** H. Bastuji (Lyon, FR)
11:12 - 11:24	**O240**	**Homeostatic response to sleep deprivation in the dorsal striatum in mice** T. Yamagata (Oxford, UK)
11:24 - 11:36	**O241**	**Short-term effect of nocturnal transportation noise on glucose metabolism** L. Thiesse (Basel, CH)
11:36 - 11:48	**O242**	**Involvement of serotonergic neurons in thermogenic and wake-promoting effects of orexin-A delivery into the raphe pallidus in the rat** A. Di Cristoforo (Bologna, IT)
11:48 - 12:00	**O243**	**Structure of REM sleep in an animal model of Post-Traumatic Stress Disorder** I. Buller (Santiago, CL)

Track Translational, Symposium, Lecture Hall C

11:00 - 13:00 Sleep less - stress more?

11:00 - 11:30	**244**	**Animal models to study effects of restricted and disturbed sleep on stress systems and stress responses** P. Meerlo (Groningen, NL)
11:30 - 12:00	**245**	**The effect of sleep loss on the response to acute psychosocial stress in young and elderly** J. Schwarz (Stockholm, SE)
12:00 - 12:30	**246**	**The impact of work-related sleep restriction on firefighters' acute physiological and psychological stress responses** A. Wolkow (Burwood, AU)
12:30 - 13:00		**Psychosocial stress as predictor of disturbed sleep** G. Kecklund (Stockholm, SE)

Track Neuropsychiatry, Symposium, Lecture Hall D

11:00 - 13:00 Biology, assessment, and significance of periodic leg movements during sleep (PLMS)

Scientific Programme

11:00 - 11:30	**248**	**Biology, arousal and assessment of the periodic dorsiflexiions of the foot in sleep** R. Allen (Baltimore, US)
11:30 - 12:00	**249**	**The complex relationship between PLMS and arousal** R. Ferri (Troina, IT)
12:00 - 12:30	**250**	**Respiratory-event associated leg movements: prevalence and significance in adults and children** S. Fulda (Lugano, CH)
12:30 - 13:00	**251**	**New data on the association between systolic and diastolic blood pressure elevations and periodic limb movements in patients with restless legs syndrome** W. Cassel (Marburg, DE)

Track Human Sleep, Symposium, Lecture Hall E

11:00 - 13:00 The role of the hypothalamus in the integration of sleep, metabolism and other bodily functions

11:00 - 11:30	**252**	**Metabolic aspects of human sleep disorders: what we can learn from narcolepsy** R. Fronczek (Leiden, NL)
11:30 - 12:00	**253**	**Melanin concentrating hormone in the dorsal raphe nucleus: role in REM sleep and depression** P. Torterolo (Montevideo, UY)
12:00 - 12:30	**254**	**Homeostatic regulation of REM sleep in narcoleptic mice: a role for the hypocretin/orexin neuropeptides** C. Peyron (Lyon, FR)
12:30 - 13:00	**255**	**Sleep regulation effects and sleep-state specific autonomic effects of diet-induced obesity** M. Luppi (Bologna, IT)

Track Neuropsychiatry, Round Table, Lecture Hall B

12:00 - 13:00 Round Table - update on treatment of parasomnia and hypersomnia in children

12:00 - 12:15	**256**	**Management and treatment of arousal disorders** O. Bruni (Rome, Lazio, IT)
12:15 - 12:30	**257**	**Diagnosis and management of sleepwalking and RBD in children** R. Lopez (Montpellier, FR)
12:30 - 12:45	**258**	**Management and treatment of NT1 and NT2** G. Plazzi (Bologna, IT)

Scientific Programme

12:45 - 13:00	**259**	**Management and treatment of idiopathic hypersomnias and Kleine Levin syndrome** M. Lecendreux (Paris, FR)

Track General, Satellite Symposium, Lecture Hall A

13:05 - 13:55 The histamine pathway: new hope in narcolepsy

13:05 - 13:10	**260**	**Introduction: the need for hope in narcolepsy** G. Plazzi (Bologna, IT)
13:10 - 13:30	**261**	**Journey of discovery: hypocretin-histamine interplay in narcolepsy** J.-S. Lin (Lyon, FR)
13:30 - 13:50	**262**	**New discovery. New hope. The experience for pitolisant in narcolepsy** Y. Dauvilliers (Montpellier, FR)
13:50 - 13:55		**General Discussion**

Track General, ESRS Women's Forum, Lecture Hall B

13:05 - 13:50 ESRS Women's Forum

13:05 - 13:15	**263**	**Sex, science and careers: state of play** R. Winsky-Sommerer (Guildford, UK)
13:15 - 13:35		**Sex differences in human sleep-wake regulation: implications for our everyday life and health** A.S. Lazar (Cambridge, UK)
13:35 - 13:50		**Discussion**

Track Respiratory, Oral Session, Lecture Hall A

14:00 - 15:00 Epidemiology of sleep disorder breathing

14:00 - 14:12	**O265**	**Obstructive sleep apnea and cancer - a nationwide epidemiological survey** T. Gislason (Reykjavik, IS)
14:12 - 14:24	**O266**	**Increased risk of cause-specific work disability prior to the diagnosis of sleep apnea** P. Salo (Turku, FI)
14:24 - 14:36	**O267**	**The Lausanne NoSAS score: a simple and reliable screening tool for sleep apnea** J. Haba-Rubio (Lausanne, CH)
14:36 - 14:48	**O268**	**Welfare cost of sleep apnea. A controlled national study** P.J. Jennum (Glostrup, DK)

Scientific Programme

14:48 - 15:00	**O269**	**Prevalence and clinical significance of respiratory effort-related arousals (RERA) in a general population sample** R. Heinzer (Lausanne, CH)

Track Neuropsychiatry, Round Table, Lecture Hall B

14:00 - 15:00 Clinical and basic science perspectives on REM sleep behaviour disorder

14:00 - 14:15	**270**	**Polysomnographic REM sleep without atonia as a phenotypic marker in synucleinopathies** E. St. Louis (Rochester, MN, US)
14:15 - 14:30	**271**	**REM sleep behaviour disorder: a window into motor control during sleep and dreaming** I. Arnulf (Paris, FR)
14:30 - 14:45	**272**	**A synucleinopathic model of REM sleep behaviour disorder** J. Peever (Toronto, CA)
14:45 - 15:00	**273**	**Idiopathic REM sleep behavior is a synucleinopathy** A. Iranzo (Barcelona, ES)

Track Translational, Oral Session, Lecture Hall C

14:00 - 15:00 Chronobiology in health and disease

14:00 - 14:12	**O274**	**The role of PERIOD3 gene polymorphisms in the response to melatonin treatment in Delayed Sleep Phase Disorder** M. Magee (Melbourne, VIC, AU)
14:12 - 14:24	**O275**	**Impact of age and lens replacement after cataract surgery on the effect of light on cognitive brain function** V. Daneault (Montreal, QC, CA)
14:24 - 14:36	**O276**	**Adverse impact of sleep restriction and circadian misalignment on autonomic function in healthy young adults** D. Grimaldi (Chicago, IL, US)
14:36 - 14:48	**O277**	**Patients with Delayed Sleep-Wake Phase Disorder (DSWPD) have poorer executive functions compared to controls** A. Wilhelmsen-Langeland (Bergen, Hordaland, NO)
14:48 - 15:00	**O278**	**Simulated night work alters clock gene expression in central and peripheral tissue in rats** A.R. Marti (Bergen, NO)

Track Translational, Oral Session, Lecture Hall D

14:00 - 15:00 Methodological advances in sleep research

Scientific Programme

14:00 - 14:12	**O279**	**Human electrocorticography reveals cortical variability of spindle characteristics** G. Piantoni (Boston, MA, US)
14:12 - 14:24	**O280**	**Closed-loop auditory stimulation time-locked to the down-phase of sleep slow waves provides a tool to locally interfere with brain activity during deep sleep** S. Fattinger (Zurich, CH)
14:24 - 14:36	**O281**	**Electromagnetic neuroimaging of sleep slow waves generators from MEG-EEG data fusion** J.-M. Lina (Montreal, CA)
14:36 - 14:48	**O282**	**A probabilistic network approach to predicting sleep architecture** B.D. Yetton (Riverside, CA, US)
14:48 - 15:00	**O283**	**Mapping brain connectivity with spatio-temporal patterns of sleep slow oscillations across childhood** S. Kurth (Boulder, US)

Track Basic, Oral Session, Lecture Hall E

14:00 - 15:00 Cellular and molecular mechanisms in sleep and waking

14:00 - 14:12	**O284**	**Optogenetic stimulation of astrocytes in the posterior hypothalamus increases sleep at night in wildtype mice** P. Shiromani (Charleston, SC, US)
14:12 - 14:24	**O285**	**Hypothalamic feedforward inhibition of thalamocortical network controls arousal and consciousness** C. Gutierrez Herrera (Berne, CH)
14:24 - 14:36	**O286**	**Silencing of hypothalamus dopamine (A11) neurons uncouples brain arousal state and motor activity** J. Fraigne (Toronto, ON, CA)
14:36 - 14:48	**O287**	**Impact of a circadian temporal chimera on sleep-wake distribution, sleep homeostasis and cognition in mice** E. Maywood (Cambridge, UK)
14:48 - 15:00	**O288**	**Contribution of sleep to the repair of neuronal DNA double-strand breaks: evidence from flies and mice** M. Bellesi (Madison, WI, US)

Track General, Keynote Lecture, Lecture Hall A

15:30 - 16:15 Keynote Lecture 3 E.J. Van Someren

15:30 - 16:15		**Large-scale psychometrics and brain imaging reveal insomnia subtypes, mechanisms and targets for treatment** E.J. Van Someren (Amsterdam, NL)

Scientific Programme

Track General, Keynote Lecture, Lecture Hall B

15:30 - 16:15 Keynote Lecture 4 J. Santamaria

15:30 - 16:15 **290** **When sleep helps uncover the culprit: the surprising history of anti-IgLON5 syndrome**
J. Santamaria (Barcelona, ES)

Track General, Poster, Poster Exhibition

16:15 - 17:45 Poster Session 2

P317 **Variants in CACNA1C are associated with sleep regulation in infants**
K. Kantojärvi (Helsinki, FI)

P318 **Screening the contributions of K+ channels to local correlates of sleep**
C. Muheim (Zurich, CH)

P319 **Genetic and environmental contributors to sleep in early adolescence: results from a twin study**
T. Rusterholz (Zurich, CH)

P320 **Immune characterization in Narcolepsy Type 1**
M. Moresco (Bologna, IT)

P321 **High anti-streptolysin-O titres and blood-brain barrier damage in narcolepsy type 1 in the first year after symptoms onset**
M. Moresco (Bologna, IT)

P322 **Long term effects of sleep deprivation on hypothalamic nuclei**
K. Fifel (Leiden, NL)

P323 **Cognitive impairment, sleep-wake disturbances and diffuse axonal injury in a rat model of closed traumatic brain injury: effect of sleep modulation on TBI-induced chronic symptoms**
D. Noain (Zurich, Zurich, CH)

P324 **The role of syntaxin in regulating sleep and wake activity**
G. Frighetto (Padova, IT)

P325 **NREM sleep modulates cerebral blood flow in distinct brain areas**
L. Tüshaus (Zurich, CH)

P326 **Different effectiveness of systemic delivery of hypothalamic neuropeptides, OrexinA and OrexinB, on sleep-wakefulness cycle ultradian structure in rats**
N. Maglakelidze (Tbilisi, GE)

P327 **Peptide YY rescues early-life obesity-induced sleep disturbances by augmenting hypothalamic serotonin**
M. Kimura (Munich, DE)

P328 **Lateral hypothalamus and sleep-wakefulness cycle**
E. Chijavadze (Tbilisi, GE)

Scientific Programme

P329 **New pattern of extra-cellular discharge of the neurons of sensory-motor cortex after functional disconnection of ascending brain Stem monoaminergic and cholinergic afferent systems**
N. Nachkebia (Tbilisi, GE)

P330 **Encoding of arousal and food intake by GABAergic neurons in the lateral hypothalamus**
L. Oesch (Bern, CH)

P331 **Relationship between histamine and orexin hypothalamic neurons in mice**
C. Berteotti (Bologna, IT)

P333 **Simultaneous auditory and visual closed-loop stimulation of delta sleep brain oscillations in humans**
I.V. Brack (Novosibirsk, RU)

P463 **Cerebral and muscular hemodynamics and left ventricular stroke volume response to breath holding, graded Valsalva and Mueller maneuvers: a near-infrared spectroscopy (NIRS) study**
Z. Zhang (Barmelweid, CH)

P464 **Sleep inertia and functional connectivity between brain regions at awakening: an fMRI study**
R. Vallat (Lyon, FR)

P465 **The physiological roles of parasympathetic and sympathetic activities in cardiovascular control during sleep in mice**
A. Silvani (Bologna, IT)

P466 **Sleep-state related changes in tidal volume in mice overexpressing Lamin B1 in oligodendrocytes**
A. Valli (Bologna, IT)

P467 **Lamin B1 overexpression in oligodendrocytes impairs the regulation of REM sleep in mice**
S. Alvente (Bologna, IT)

P468 **Comparing individual slow waves in CAP A1 and NCAP: amplitude, frequency, propagation and synchronization**
P.P.P. Ujma (Budapest, HU)

P469 **Autonomic activity during sleep in rats under repetitive cold exposures**
O. Shylo (Kharkov, UA)

P470 **Residents' negative attitude towards air traffic is associated with impaired objective sleep quality**
E.-M. Elmenhorst (Cologne, DE)

P335 **Adenosine A1 receptor expression in the rat brain throughout the circadian cycle: a PET study with [18F]CPFPX**
T. Kroll (Jülich, DE)

P336 **Bright morning light exposure reduces daytime cortisol concentrations**
C. Nowozin (Berlin, DE)

Scientific Programme

P337 **Theoretical and empirical comparisons of sleep and fatigue in two 2-section maritime watch systems: 6 hours on/6 hours off versus 8 hours on/8 hours off**
W.M. van Leeuwen (Stockholm, SE)

P338 **Two dimensions of chronotype and daytime sleepiness in young adults**
H. Oginska (Krakow, PL)

P339 **School start time influences melatonin and cortisol levels in children and adolescents - a community-based study**
A. Carissimi (Porto Alegre, Rio Grande do Sul, BR)

P340 **What we learned from Quilombolas about light, sleep and depression**
L.K. Pilz (Porto Alegre, BR)

P341 **The impact of ocular deficits on sleep and mood: a case series study**
I. Alexander (Oxford, UK)

P343 **Circadian pattern of the metabotropic glutamate receptor 5 in the rat brain**
D. Elmenhorst (Jülich, DE)

P344 **Sleep evaluation and management for solo racing sailors**
F. Canellas (Palma de Mallorca, ES)

P345 **Changing from 8 to 12 hour shift system. What are the impacts on sleep, sleepiness and recovery among industrial employees?**
S. Puttonen (Helsinki, FI)

P346 **Association between Amerindian (but not African or European) ancestry and diurnal preference (chronotype) within an admixed Brazilian population**
K.J. Egan (Guildford, UK)

P471 **The effect of gestation on mammalian sleep**
A.A.A. Gonfalone (Saint Marcellin lès Vaison, Vaucluse, FR)

P472 **Obstructive sleep apnea (OSA) as a risk factor for cardiovascular diseases - arterial hypertension (AH) and atrial fibrillation (AF)**
A. Simeonova (Sofia, BG)

P473 **Slow-wave sleep-related EEG activity during feather preening in pigeons**
D. Martinez-Gonzalez (Seewiesen, DE)

P474 **Cortical network dynamics differ after torpor and sleep deprivation in Djungarian hamsters**
V. Vyazovskiy (Oxford, UK)

P475 **Sleep and energy conservation: a new paradigm based on state-dependent coupling of biological operations**
M. Schmidt (Bern, CH)

P476 **Lack of recovery following sleep restriction: the role of caffeine**
T.J. Doty (Silver Spring, MD, US)

Scientific Programme

P477 **Sleep quality and videogaming habits in adolescents: a survey on an Italian sample**
S. Peracchia (L'Aquila, IT)

P478 **Videogaming habits and circadian typology in adolescents**
S. Peracchia (L'Aquila, IT)

P479 **“Glued to the tube”: the interplay between self-control, evening television viewing, and bedtime procrastination**
L. Exelmans (Leuven, BE)

P480 **Ego depletion both increases and decreases time to bed: a dual pathway model**
L. Exelmans (Leuven, BE)

P481 **Accumulation of fatigue and sleep problems among European seafarers during prolonged periods at sea**
W.M. van Leeuwen (Stockholm, SE)

P482 **The role of sleep in aesthetic perception and empathic abilities: a mediation analysis**
D. Tempesta (L'Aquila, IT)

P483 **Jumping to conclusions and sleep: what's the link?**
A. Rehman (Glasgow, UK)

P484 **Determinants of perceived sleep quality in normal sleepers, including night-to-night variability**
M.S. Goelema (Eindhoven, NL)

P485 **Breaking up Inactivity is associated with longer sleep duration in adolescents: the Penn State Child Cohort**
S. Elavsky (University Park, PA, US)

P356 **Offline consolidation of spatial navigation memories after sleep and quiet wake**
M. Ferrara (L'Aquila, IT)

P357 **Sleep-dependent memory consolidation is related to perceived value of learned material in a Welsh language learning task**
E. van Rijn (Swansea, UK)

P358 **Sleep does not cause false memories on the Deese-Roediger-McDermott paradigm**
E. van Rijn (Swansea, UK)

P359 **Sleep-dependent memory consolidation in narcoleptic children: reduced performance in a visuo-spatial task compared to control children**
A.E. Rey (Bron Cedex, FR)

P360 **Associations between sleep and short-term memory in infancy**
M. Pisch (London, UK)

P361 **The effects of sleep and stress on prospective memory**
Z.-L. Goldberg (Cape Town, Western Cape, ZA)

Scientific Programme

P362 **Sleep is not for everything: a daytime nap does not affect moral judgment**
N. Cellini (Padova, IT)

P363 **Does the early bird really get the worm? How circadian chronotype relates to cognitive abilities**
L.B. Ray (London, CA)

P364 **Differential effects of sleep on emotion regulation: an ERP study**
S. Dhaka (Guwahati, Assam, IN)

P365 **Napping vs. cramming for long-term retention of declarative memories**
J. Cousins (Singapore, Singapore, SG)

P366 **The autobiographical memory in the context of stroke and head injury**
P. Pankaj (Bangalore, Indiana, IN)

P367 **Sleep-wake dependent changes in synaptic AMPA receptor plasticity in rat cortex**
A. Karashima (Sendai, JP)

P368 **Consolidation of visual episodic memories is associated with REM duration and spindle acitivty in late adolescence**
L. Kuula (Helsinki, FI)

P486 **A modern scientific exploration of dream content in Shakespeare's plays**
J. De Koninck (Ottawa, CA)

P487 **Attentional processes in high and low dream recallers: An EEG study**
P. Ruby (Lyon, FR)

P488 **Recalling a dream related to a recent experience: does it help episodic memory consolidation?**
P. Ruby (Lyon, FR)

P489 **Insight gains from the dream group discussion of REM dream, N2 dream and pre-sleep daydream reports**
M. Blagrove (Swansea, UK)

P490 **Dreams in narcoleptic patients with and without cataplexy**
P.J. Jennum (Glostrup, DK)

P491 **What determines the level of consciousness during Non-REM sleep?**
F. Siclari (Madison, US)

P492 **Dream mentation and impulse control disorder (ICD) in Parkinson's disease (PD)**
M.J. Roussel (Clermont-Ferrand, FR)

P493 **Napping reverses the salivary interleukin-6 and urinary norepinephrine changes induced by sleep restriction**
B. Faraut (Paris, FR)

Scientific Programme

P494 **Sleep deprivation in early pregnancy affects emotionality of dams and progeny**
E.M. Rutskova (Moscow, RU)

P495 **Effect of sleep-deprivation on cytokines level, neutrophil functions and the proliferative potential of lymphocyte populations**
M. Al-Abri (Muscat, OM)

P496 **Electrophysiological correlates of increased risk-seeking during chronic sleep restriction**
E. Montvai (Zürich, CH)

P497 **Physical training reduces continuous wakefulness (28 hours) effects on simulated car-driving capability, but not on various cognitive processes**
C. Bougard (Bretigny sur Orge, FR)

P498 **Behavioural effects of chronic sleep restriction in a rotenone model of Parkinson's disease in rats**
J. Fagotti (Curitiba, BR)

P499 **The effects of energy substitution during sleep deprivation on the following rebound sleep**
Z. Lelkes (Szeged, HU)

P500 **Sleep deprivation and motor vehicle accidents in truck drivers**
O. Guglielmi (Genoa, IT)

P501 **A rat model for shiftwork: effects on sleep architecture and sleep homeostasis**
M.J. Rempe (Spokane, WA, US)

P502 **Sustained attention during repeated cycles of sleep restriction and recovery**
J. Lo (Singapore, SG)

P503 **Effects of time in bed extension on food intake in young overweight habitual short sleepers: a randomized controlled study**
A. Guyon (Lyon, FR)

P504 **Chronic sleep restriction increases risk-seeking**
A. Maric (Zurich, CH)

P505 **Sleep regulation: Effect of sleep restriction and extension**
J. Skorucak (Zurich, CH)

P506 **Does reduced vigilance contribute to age-related changes in cognitive capacity?**
S. Münzing (Zürich, CH)

P507 **“Somnivore”, a user-friendly platform for automated sleep scoring of animal and human polysomnography data**
G. Allocca (Parkville, AU)

Scientific Programme

P508 **Continuous sleep profiles clustering with a novel two-step functional data approach**
Z. Rošťáková (Bratislava, SK)

P509 **Non-invasive discrimination of mouse wake-sleep states based on breathing variability**
G. Cohen (Stockholm, SE)

P510 **A feasibility study of bioradar usage for respiration monitoring in small laboratory animals during sleep**
E.M. Rutskova (Moscow, RU)

P511 **Characterizing sleep spindles in mouse and human recordings using optimum wavelet functions**
M. Bandarabadi (Bern, Bern, CH)

P512 **Can machine learning techniques help for classification of obstructive sleep apnea severity**
S. Bozkurt (Antalya, TR)

P513 **Actigraphic sleep detection: an artificial intelligence approach**
U. Faraguna (Pisa, IT)

P514 **Automatic artefact detection in long-term single channel sleep EEG recordings**
A. Malafeev (Zurich, CH)

P515 **Efficiencies gained by remote monitoring of CPAP treatment**
A. Dickinson (Wyhthenshawe, Cheshire, UK)

P516 **Linking the quality of sleep and cognitive performance in stroke patients**
B. Cimrová (Bratislava, SK)

P526 **Sensory nervous lesions in the palate worsens over time in untreated snorers but not in CPAP-treated OSA-patients**
E. Svanborg (Linköping, SE)

P527 **Three distinct subgroups of male obstructive sleep apnoea patients by cluster analysis based on polysomnographic variables**
H. Nakayama (Tokyo, JP)

P528 **2-years follow-up (FU) results of ORCADES study: long-term mandibular repositioning device (MRD) therapy in patients treated for Obstructive Sleep Apnea (OSA)**
M.-P. d'Ortho (Paris, FR)

P529 **Dietary nitrate: a novel but potent antihypertensive strategy in obstructive sleep apnoea syndrome**
C. Kerley (Dublin, IE)

P530 **Outcome of positive airway pressure (PAP) home titration in patients with obstructive sleep disordered breathing (SDB): a real-world study**
M.R. Bonsignore (Palermo, IT)

Scientific Programme

P531 **The relationship between obstructive sleep apnea and depression**
E. Shaf (Kemerovo, RU)

P532 **Two months outcome of a positional device (Sleep positional Trainer) for positional sleep apnea: a randomized, controlled trial**
P. Tønnesen (Glostrup, DK)

P533 **Excessive daytime sleepiness and risk of obstructive sleep apnea in subjects assisted in a Basic Health Unit in Divinópolis, Brazil - Preliminary results**
N.S. Faria Junior (São Paulo, BR)

P534 **The prevalence of syndrome Z in severely obese women on the waiting list for bariatric surgery**
E.A. Perez (Sao Paulo, SP, BR)

P535 **Evaluation of subjective sleepiness and sleep architecture in elderly compared to younger adults with suspected sleep- disorder breathing**
I. Bouloukaki (Heraklion, GR)

P536 **Sleep related breathing disorders in chronic pain patients - an overlooked issue?**
L. Bendix (Odense, DK)

P537 **Prone positioning for treatment of obstructive sleep apnoea**
A. Bidarian-Moniri (Gothenburg, SE)

P538 **Obstructive sleep apnoea in super obese women on the waiting list for bariatric surgery**
E.A. Perez (Sao Paulo, SP, BR)

P539 **A heavy-weight combo: obstructive sleep apnea - chronic obstructive pulmonary disease overlap syndrome**
S. Mihaicuta (Timisoara, RO)

P540 **The bimaxilary advacement surgery as an alternative treatment for pacients with obstructive sleep apnea-hypopnea syndrome (SAHS)**
B. Martín (Madrid, Madrid, ES)

P541 **Keratocystic odontogenic tumour after CPAP treatment**
M. Pujol (Lleida, ES)

P542 **Inverse positional sleep apnoea (syndrome) (I-POSA(S)): a description of a new positional sleep apnoea entity**
P. Tønnesen (Glostrup, DK)

P543 **Sleep and clinical characteristics of elderly patients with sleep-disordered breathing**
P. Steiropoulos (Alexandroupolis, GR)

P544 **The role of the new generation pacemakers in sleep apnea screening**
M. Dias (Vila Nova de Gaia, PT)

Scientific Programme

P545 **Cerebral cortical thinning in untreated severe obstructive sleep apnea syndrome patients: a four-year longitudinal study**
P. Song (Gyeonggi-do, KR)

P546 **Tongue base hypertrophy as an important anatomic correlate of sleep-disordered breathing in adults**
H. Gouveris (Mainz, DE)

P547 **Increased gray matter volume and cortical thickness with markers of obstructive sleep apnea severity in middle-aged and older adults**
A.-A. Baril (Montreal, CA)

P548 **Nasal cycle during sleep**
S. Chiba (Kawasakicity, Kanagawaken, JP)

P549 **Evaluation of sleep architecture and functional level in fibromyalgia patients with and without obstructive sleep apnea syndrome**
I. Bouloukaki (Heraklion, GR)

P550 **Is sleep disordered breathing in children a precursor of cardiovascular disease?**
A. Kontos (North Adelaide, SA, AU)

P551 **Influences of pollinosis on phase of nasal cycle during sleep**
K. Matsuura (Kanagawa, JP)

P552 **A new algorithm for automatic detection of Respiratory Effort Related Arousal (RERA), in diagnosing Obstructive Sleep Apnoea (OSA)**
M. Tvinnereim (Bergen, Hordaland, NO)

P553 **Maximum protrusion of the jaw in adult population; first step in the construction of mandibular advance device for treatment of sleep apnea**
P. Mayoral Sanz (Madrid, Madrid, ES)

P554 **Effects of one year CPAP therapy on blood pressure variability in patients with obstructive sleep apnea and resistant hypertension**
O.C. Deleanu (Bucharest, RO)

P555 **Sleep and sleep disordered breathing in a cohort of pre-lung transplant patients**
M.-P. d'Ortho (Paris, FR)

P556 **Predicting the technical success of a home sleep apnea study**
A. Alakuijala (Helsinki, FI)

P557 **CPAP therapy induces favorable short-term changes in epicardial fat thickness and vascular and metabolic markers in apparently healthy subjects with obstructive sleep apnea-hypopnea syndrome (OSAHS)**
K. Kostopoulos (Athens, GR)

P558 **Using a linear model of the respiratory system to directly compare ventilatory effort to output in obstructive sleep apnoea**
L. Gell (Adelaide, SA, AU)

Scientific Programme

P559 **Sleep quality and clinical profile of patients in a sleep disorders research laboratory**
A.S. Silva (Sao Paulo, BR)

P560 **Preliminary data on the effectiveness and compliance of a sleep positioning pillow in the treatment of positional sleep related breathing disorders**
J. Newell (Brussels, BE)

P561 **Prevalence and risk factors associated with EDS in adolescents: the penn state child cohort**
E. Bixler (Hershey, PA, US)

P562 **Associations between sleep-disordered breathing (SDB) and co-morbidities included in the diagnostic criteria for obstructive sleep apnea (OSA)**
T. Jonassen (Bergen, NO)

P563 **CPAP treatment with nasal pillows in obstructive sleep apnea syndrome: patient preference, long term effectiveness and adherence**
A. Lanza (Milan, IT)

P564 **Head rotation and the severity of obstructive sleep apnea**
J.H. Kim (Cheonan, KR)

P565 **Inflammation mediates the association between visceral fat and obstructive sleep apnoea: the Penn State Child Cohort**
J. Gaines (Hershey, PA, US)

P566 **Current classification of sleep-disordered breathing based on RDI may underestimate the pathophysiological systemic effects in females**
H. Gouveris (Mainz, DE)

P567 **Fine motor skills and neuropsychological functioning in obstructive sleep apnea patients with or without severe hypoxemia**
O. Mairesse (Brussels, BE)

P568 **Effectiveness of CPAP treatment in patients with sleep apnea in a tertiary hospital of high complexity in Sao Paulo (Brazil)**
E.F. Oliveira (Sao Paulo, BR)

P569 **Sleep disorders breathing in COPD patients after pulmonary rehabilitation**
J.C. Oliveira (Sao Paulo, BR)

P570 **Effects of oropharyngeal exercises on maximum anterior and posterior tongue strength and endurance in patients with severe OSA: Apnelog study**
G. Mwenge (Brussels, BE)

P571 **Outcomes of upper airway surgery in patients with obstructive sleep apnea referred to a sleep clinic**
N. Naeimabadi (Tehran, IR)

Scientific Programme

P347 **A retrospective study of the efficacy of ramelteon for insomnia: relevance to dose and timing of administration**
A. Tsuchiya (Toyoake, JP)

P348 **Activity forecast by season and weather? Natural light effects on three years activity data in twenty nursing home residents suffering from dementia**
A. Wahnschaffe (Berlin, DE)

P349 **Seasonal affective disorder at symptom level indicates absence of melatonin deficiency at brain-structural level**
D. Kunz (Berlin, DE)

P350 **Effects of light on sleep, emotions and immunological variables in demented patients**
M. Münch (Lausanne, CH)

P351 **Characterisation of the sleep disruption, melatonin circadian rhythms, and genetic mutations in a cohort of Smith-Magenis syndrome patients**
E. Schreffler (Washington, DC, US)

P352 **Comparison of subjective sleep-wake characteristics and mood in Delayed Sleep Phase Disorder with and without an associated circadian phase angle disorder**
J.M. Murray (Clayton, VIC, AU)

P353 **Salivary melatonin in patients with Delayed Sleep-Wake Phase Disorder compared with control sleepers**
G. Micic (Adelaide, AU)

P354 **Personality profiles differ in Delayed Sleep-Wake Phase Disorder and Non-24-Hour Sleep-Wake Rhythm Disorder patients compared to good sleepers**
G. Micic (Adelaide, AU)

P355 **Can circadian phase be estimated in patients with Delayed Sleep Wake Phase Disorder?**
N. Lovato (Adelaide, AU)

P369 **Preventive intervention effectiveness for sleep in shift workers**
T. Araújo (Québec, CA)

P370 **Priming recognition in good sleepers and insomniacs**
F. Giganti (Florence, IT)

P371 **Sociodemographic characteristics of night shift workers and day workers**
S.-E. Nadeau (Québec, QC, CA)

P372 **Thoughts and cognitive activation among night shift workers as a function of two distinct work schedules**
J. Croteau (Québec, QC, CA)

P373 **High-frequency heart rate variability reactivity to worry and trait worry interact to predict stress-related sleep disturbances**
J.-P. Gouin (Montreal, QC, CA)

Scientific Programme

P374 **Assessment of insomnia by using insomnia severity index among female teachers and students of different Universities of Quetta, Pakistan**
A. Nasim (Quetta, Balochistan, PK)

P375 **Hyperarousal as a function of age and insomnia severity: a comparison between three age groups from a large cohort study**
E. Altena (Bordeaux, FR)

P376 **Neurobehavioral impairment during total sleep deprivation is exacerbated in sleep-onset insomniacs**
D. Grant (Spokane, US)

P377 **Is insomnia in shift work different according to work schedule?**
A. Vallières (Québec, QC, CA)

P378 **Comparison of healthy sleep with chronic sleep deprivation and insomnia in adolescents**
A.M. Meijer (Amsterdam, NL)

P379 **Characteristics of napping in community dwelling insomnia patients**
J.H. Lee (Chunchon, KR)

P380 **Using latent profile analysis to characterize insomnia profiles among patients with and without obstructive sleep apnea**
M.R. Crawford (Chicago, IL, US)

P381 **Subjective sleep time and time in bed in patients referred to sleep disorders center for insomnia treatment**
E.H. Poradowska (Warsaw, mazowieckie, PL)

P382 **Comparing the therapeutic effect of cognitive-behavior therapy for older adults suffering from insomnia with short and normal objective sleep duration**
N. Lovato (Adelaide, AU)

P383 **Insomnia determinants in the third trimester of pregnancy**
D. Wołyńczyk-Gmaj (Warsaw, PL)

P384 **Neurofeedback reinforcement schedule - efficient threshold for the feedback**
S.J. Nam (Seoul, KR)

P385 **A randomised controlled trial of auricular acupuncture and cognitive behavioural therapy for insomnia: a short-term self-assessment**
L. Bergdahl (Uppsala, SE)

P386 **Chronotype and insomnia as independent factors associated with poor mental health in Hong Kong university students**
L.B. Hensel (Glasgow, UK)

P387 **Treating severe Insomnia in an inpatient setting - 10 years experience of feasibility**
T. Crönlein (Regensburg, DE)

Scientific Programme

P388 **Auricular acupuncture and cognitive behavioural therapy for insomnia - a randomised controlled study**
L. Bergdahl (Uppsala, SE)

P389 **Long-term effects of an unguided online cognitive behavioral therapy for chronic insomnia**
Ø. Vedaa (Bergen, NO)

P390 **Are you ready to go to bed? Investigating sleep-readiness cues in those with insomnia**
M. Jansson-Fröjmark (Stockholm, SE)

P391 **The effect of a sleep school at the work place - a randomized controlled intervention study**
H. Schiller (Stockholm, SE)

P572 **Scalp and source power changes across the sleep wake-cycle in sleep arousal disorders: a hd-EEG study**
A. Castelnovo (Milano, Italy, IT)

P573 **Utility of polysomnography in the diagnostic evaluation of non REM parasomnias**
R. Muza (London, UK)

P574 **Pain perception in patients with idiopathic REM sleep behaviour disorder**
A.V. Strobel (Aarhus, DK)

P575 **Anxiety mediates the relationship between nightmares and night eating**
E. Jang (Seoul, KR)

P576 **Bruxism and pain**
I. Luzeiro (Coimbra, PT)

P577 **Altered event-related potentials associated with Posner paradigm in idiopathic REM sleep behavior disorder patients**
J.-A. Lim (Seoul, KR)

P578 **A screening instrument to evaluate sexsomnia in legal cases**
J. Hetta (Stockholm, SE)

P579 **Nictemeral blood pressure profile in idopathic REM sleep behaviour disorder**
M. Terzaghi (Pavia, IT)

P392 **Leg movements (LM) and Periodic Leg movements (PLM) analysis in moderate-severe obstructive sleep apnea syndrome (OSAS)**
A.M. Corica (Negrar, VR, IT)

P393 **Excessive fragmentary myoclonus in patients with rapid eye movement sleep behavior disorder - a pilot study**
J. Nepožitek (Prague, CZ)

P394 **Epidemiology of restless legs syndrome in primary care population in Hungary**
M. Simon (Budapest, HU)

Scientific Programme

P395 **A case of REM-sleep without atonia induced by quetiapine**
K. Grohme (Berlin, Berlin, DE)

P396 **Excessive daytime slepiness in Parkinsons disease is the heterogenity syndrome**
M. Nodel (Moscow, RU)

P397 **Videosomnography assessment in childhood rhythmic movement disorder: validation of a novel scoring algorithm**
A. Gwyther (Southampton, Hampshire, UK)

P398 **Restless legs syndrome / Willis Ekbom Disease in bariatric surgery patients**
M. Lipford (Rochester, MN, US)

P400 **Preliminary data on vitamin D deficiency and treatment in a cohort of Sicilian RLS/WED patients**
I. Aricò (Messina, Sicilia, IT)

P580 **Atypical depression and idiopathic hypersomnia distinct disorders?**
A. Heidbreder (Muenster, DE)

P581 **Prevalence and mimics of Kleine-Levin Syndrome: a survey in French-speaking Switzerland**
O. Habra (Lausanne, CH)

P582 **No antineuronal antibodies in a sample of 95 patients with narcolepsy or other sleep disorder**
T. Sarkanen (Jyväskylä, FI)

P583 **Sleep spindle density in narcolepsy**
J.A.E. Christensen (Glostrup, DK)

P584 **Long term use of pitolisant to treat narcolepsy: HARMONY III study**
Y. Dauvilliers (Montpellier, FR)

P585 **Risk factors for daytime sleepiness fluctuation in a population-based 5-year longitudinal study**
I. Jaussent (Montpellier, FR)

P586 **Body mass index in narcolepsy with cataplexy patients aged over 60 years**
P. Kovalska (Prague, CZ)

P587 **Attention network test reveals alerting network impairment in type 1 narcolepsy**
M. Filardi (Bologna, IT)

P588 **Automatic detection of microsleep episodes**
J. Skorucak (Zurich, CH)

P589 **Retrospective multicenter matched case-control study on the risk factors of narcolepsy in Germany**
D. Oberle (Langen, DE)

Scientific Programme

P590 **Morbidity in childhood and adolescent onset narcolepsy**
P.J. Jennum (Glostrup, DK)

P591 **Xyrem treatment in narcolepsy and its effect on muscle tone**
G. Mayer (Schwalmstadt-Treysa, DE)

P592 **The distinguishing motor features of cataplexy: a study from video recorded attacks**
F. Pizza (Bologna, IT)

P593 **Video-recording procedure under emotional stimulation as a test to document cataplexy**
G. Neccia (Bologna, IT)

P594 **Neuropsychological and neurocognitive profile in post-traumatic brain injury hypersomnia**
M. Figorilli (Cagliari, IT)

P595 **Spectral EEG profile of REM sleep at the sleep onset in narcolepsy type 1**
F. Pizza (Bologna, IT)

P401 **Oneiric stupor in sporadic Creutzfeldt-Jakob disease: challenging the thalamic hypothesis?**
F. Boghez (Bucharest, RO)

P402 **Changes of interictal epileptic spikes networks during NREM sleep in comparison with wakefulness: an SEEG study**
I. Lambert (Marseille, FR)

P403 **Sleep problems in children following a brain tumour diagnosis. Surveillance in a tertiary paediatric neuro-oncology centre**
S. King (Southampton, UK)

P404 **Polysomnographic findings in multiple sclerosis**
Z. Szakacs (Budapest, HU)

P405 **Effect of different ventilator modes on gas exchange, sleep and patient-ventilator asynchrony during non-invasive ventilation titration in amyotrophic lateral sclerosis**
B. Vrijsen (Leuven, BE)

P406 **Modulation of dystonia during night sleep**
E. Antelmi (Bologna, IT)

P407 **Polysomnography-based sleep parameters among patients with acute stroke**
E. Pajediene (Kaunas, LT)

P408 **Children with autism who have sleep problems exhibit abnormally high sensory sensitivities**
O. Tzischinsky (Emek Yezreel, IL)

P409 **Polysomnographic sleep patterns in pediatric unresponsive wakefulness syndrome: time-frequency characterization and prognostic value**
E. Molteni (Bosisio Parini, IT)

Scientific Programme

P410 **Motor sleep features in a Sardinian population of amyotrophic lateral sclerosis patients**
M. Puligheddu (Cagliari, IT)

P411 **Spindle oscillations trigger rolandic discharges in benign childhood epilepsy (1)**
S. Kohsaka (Sapporo, JP)

P412 **Spindle oscillations trigger rolandic discharges in Benign childhood epilepsy (2)**
S. Kohsaka (Sapporo, JP)

P413 **Objective and subjective differences in sleep between adolescents with chronic fatigue syndrome and healthy controls. An observational case-control study**
M. Pedersen (Oslo, NO)

P414 **EEG complexity as an indication for sleep-wake patterns in patients with disorders of consciousness**
T. Wielek (Salzburg, AT)

P415 **Sleepiness and fatigue in multiple sclerosis - same same but different? A systematic review on the Epworth Sleepiness Scale as an assessment tool**
R. Popp (Regensburg, DE)

P416 **Sleep related breathing disorders in ICU survivors**
C. Alexopoulou (Heraklion, Crete, GR)

P417 **Estimation of cardiovascular disease from polysomnographic parameters in sleep-disordered breathing**
A. Bostanci (Antalya, TR)

P418 **The association between the frequency of cardiovascular diseases and sleep duration (data from the epidemiological study ESSE-RF)**
L. Korostovtseva (St. Petersburg, RU)

P419 **Sleep patterns among patients with chronic fatigue: a polysomnography based study**
E. Pajediene (Kaunas, LT)

P420 **Internationalization and institutionalization of diabetes mellitus research in patients with obstructive sleep apnea**
M. Milkov (Varna, BG)

P421 **Obstructive sleep apnea and glaucoma - a comorbidity of rising actuality**
M. Milkov (Varna, BG)

P422 **Perceived relationships between pain, sleep and mood: attributions of symptom interaction in patients awaiting total hip arthroplasty**
T. Blågestad (Bergen, NO)

P423 **The influence of depression symptoms and sleep quality on the functional level of FMS patients**
I. Bouloukaki (Heraklion, GR)

Scientific Programme

P424 **Therapeutic compliance and the impact on symptomatic outcome in patients with chronic fatigue and chronic fatigue syndrome**
D. Vogelaers (Ghent, BE)

P425 **Sleep length: Association to respiratory symptoms and self reported diseases**
T. Gislason (Reykjavik, IS)

P426 **Long sleep and longer naps are associated with severity of HIV disease**
B. Faraut (Paris, FR)

P427 **Sleep disorders breathing in COPD patients**
J.C. Oliveira (Sao Paulo, BR)

P428 **Effect of rehabilitation on health status and sleep in women with fibromyalgia**
B. Thorleifsdottir (Reykjavík, Reykjavík, IS)

P429 **Daytime sleepiness and obstructive sleep apnea in end-stage renal disease patients undergoing hemodialysis**
L.V.F. de Oliveira (São Paulo, São Paulo, BR)

P596 **Insomnia during the last month of pregnancy predicts post-partum depression**
C. Baglioni (Freiburg, DE)

P597 **Are we ignoring sleep disorder co-morbidity in adults with attention deficit hyperactivity disorder?**
D. O'Regan (London, UK)

P598 **An approach to understanding sleep and depressed mood in adolescents: person-centered sleep classification**
T. Shochat (Haifa, IL)

P599 **Predictive value of sleep quality in mood swings of bipolar patients with or without rapid-cycling features**
D. Dimellis (Thessaloniki, GR)

P600 **The relationship between attachment and functional outcomes of sleep in patients with obstructive sleep apnea**
C. Adams (Saskatoon, SK, CA)

P601 **Why sleep matters: association between sleep and psychological distress in Georgian Internally displaced population**
N. Darchia (Tbilisi, GE)

P602 **Sleep/wake behaviour and circadian pattern of motor activity in adults with attention-deficit/hyperactivity disorder: an actigraphic study**
L. Tonetti (Bologna, IT)

P603 **Relationships between morning salivary Alpha-Amylase (sAA), sleep and anxiety in adults with and without Autism Spectrum Disorder (ASD)**
A. Richdale (Melbourne, VIC, AU)

Scientific Programme

P604 **ADHD, sleep and health**
S. Kooij (The Hague, NL)

P605 **Sleep quality and burnout levels in people working with severe disability patients**
M.J. Esposito (Bologna, IT)

P606 **Sleep and circadian disturbance in young individuals at high risk for developing psychosis**
R. Purple (Oxford, UK)

P607 **Sleep phenotypes and environmental risk factors in relation to psychotic-like experiences**
K. Wulff (Oxford, UK)

P608 **Sleep disorders in Uruguayan football players: a pilot study**
M. Pedemonte (Punta del Este, UY)

P609 **Sleep disturbance, working memory and learning problems in adolescents with high functioning autism spectrum disorder**
S. Calhoun (Hershey, US)

P610 **Clinician perceptions of sleep problems and their treatment in patients with non- affective psychosis**
A. Rehman (Glasgow, UK)

P611 **Circadian rest-activity rhythms during benzodiazepine tapering covered by add-on melatonin versus placebo**
P.J. Jennum (Glostrup, DK)

P612 **Insomnia with objective short sleep duration is associated with withdrawn depression in adolescents**
J. Fernandez-Mendoza (Hershey, US)

P455 **Home sleep environment: are pets in the bedroom beneficial or detrimental?**
L. Krahn (Scottsdale, US)

P456 **Do sleep length and timing differ between the school term and the holidays in young adolescents?**
A. Agostini (Adelaide, SA, AU)

P457 **Intraocular pressure is related to sleep stages**
E. Urrestarazu (Pamplona, Not in USA, ES)

P458 **Flipping the ´Sleep Switch´ activates process ´O´ (Onset/Offset) to produce alerting benefits of brief naps as well as more sustained sleep after nocturnal awakenings**
L. Lack (Eden Hills, AU)

P459 **Hypoxic bedrest and sleep architecture: effect of initial hypoxic exposure and total stimulus duration**
L. Dolenc-Groselj (Ljubljana, SI)

Scientific Programme

P460 **Association between variations in salivary cortisol secretion during sleep and subjective daytime sleepiness**
M. Ohira (Otsu, Shiga, JP)

P461 **Hypoxia and bedrest progressively attenuate parasympathetic activity during sleep**
M. Kirbiš (Ljubljana, SI)

P462 **Relationship between sleep and health-related factor in adolescents**
K.J. Hwang (Seoul, KR)

P430 **Actigraphic motor asymmetries during sleep in infants: a longitudinal study**
L. Tonetti (Bologna, IT)

P431 **The paediatric narcolepsy screening questionnaire: data from the evaluation of a new tool to help paediatricians diagnose narcolepsy**
J. Profant (Palo Alto, CA, US)

P432 **Sleep patterns, sleep habits and screen exposure: cultural differences among Jewish and Muslim school-aged children in Israel**
I. Haimov (Emek Yezreel, IL)

P433 **The longitudinal effects of persistent apnoea on cerebral oxygenation in ex-preterm infants**
R.S. Horne (Melbourne, AU)

P434 **Dynamic lighting in a school. Effects on sleepiness, attention and sleep in 8-10 year old children**
B. Bjorvatn (Bergen, NO)

P435 **The relationship between body mass index and sleep duration in children: a cross-cultural self-report study**
M. Martoni (Bologna, IT)

P436 **Normal pulse oximetry values in infants under the age of 4 months using Masimo technology**
A.S. Karunatilleke (Southampton, UK)

P437 **Influence of anticonvulsants on sleep difficulties in children with epileptic seizures of genetic etiology (ESGE) - a questionnaire based study**
T. Ediberidze (Tbilisi, GE)

P438 **Effect of co-sleeping and caregiver factors on infant sleep and physical stress reactivity**
S.-C. Chung (Taoyuan, TW)

P439 **Helping adolescents with prolonged sleep latency through a brief school-based intervention**
K. Bartel (Adelaide, AU)

P440 **Distal skin vasodilation precedes sleep onset in preterm neonates and children**
V. Bach (Amiens, FR)

Scientific Programme

P441 **Poor sleep affects cognition and behaviour in both attention deficit/hyperactivity disorder and typically developing children, but with a differential pattern of effects**
F. Knight (London, UK)

P442 **Tolerance and pharmacokinetics of pitolisant (Wakix®), a histamine H3 antagonist, in 24 narcoleptic children**
M. Lecendreux (Paris, FR)

P443 **Mapping sleep slow wave activity may indicate alterations in the functional neuroanatomy of executive processes in adolescents born very preterm**
F. Wehrle (Zurich, CH)

P444 **Sleep disturbances in pre-school children and parents: a community study**
M. Gardani (Glasgow, UK)

P445 **Impact of gastro-oesophageal reflux on arousals and bradycardia in neonates: a polysomnographic and impedande-pH monitoring study**
F. Telliez (Amiens, Hauts de France, FR)

P446 **Sleep-disordered breathing and transcutaneous carbon dioxide in normal pregnancy**
V. Rimpilä (Tampere, FI)

P447 **Comparison of sleep disordered breathing between men and women**
M. Lipford (Rochester, MN, US)

P448 **Sleep/wake patterns and menstruation for Restless legs syndrome in the Korean female high-school students**
J.H. Choi (Seoul, KR)

P449 **Severity of individual obstruction events is gender dependent in obstructive sleep apnea**
T. Leppänen (Seinäjoki, FI)

P450 **Level of life satisfaction and neuroticism are associated with insomnia in users and non-users of prescribed sleep medication in both genders**
R. Andenæs (Oslo, NO)

P451 **gender distribution/differences and impact in patients with obstructive sleep apnea syndrome**
R. Pleava (Timisoara, RO)

P452 **Comparison of subjective sleep and fatigue in breast- and bottle-feeding mothers**
A. Mariman (Ghent, BE)

P453 **The original record-analysis system of fetal and maternal movements during a pregnant woman's sleep is useful to see maternal sleep disturbance**
K. Nishihara (Kawasaki-shi, JP)

P454 **Obstructive sleep apnea gender diferences in a young population**
P.U. Brito (Coimbra, PT)

Scientific Programme

P517 **Graph-theoretic analysis of nocturnal EEG recordings for NFLE patients and controls**
M. Cogoni (Cagliari, IT)

P518 **Application of Clean Unit System Platform (CUSP) for sleep diagnostics: evaluation of sleep quality by monitoring air-borne particles in an ultraclean space**
M. Yasutake (Tokyo, JP)

P519 **In-depth analysis of leg movements during sleepin 3D**
H. Garn (Vienna, Vienna, AT)

P521 **Sleep-wakefulness evaluation based on bioradiolocation**
L. Korostovtseva (St. Petersburg, RU)

P522 **Sleep estimation based on the analysis of cardiorespiratory activity**
L. Korostovtseva (St. Petersburg, RU)

P523 **Efficacy of pitolisant on cataplexy: a double blind, randomised, placebo controlled trial in patients with narcolepsy (the HARMONY-CTP trial)**
Y. Dauvilliers (Montpellier, FR)

P524 **Mapping of EEG records of autosomal dominant nocturnal frontal lobe epilepsy**
M. Puligheddu (Cagliari, IT)

P525 **Sleep stage transitions with aging and sleep disorders**
T. Penzel (Berlin, DE)

P613 **A sampling study: sleep duration, sleep quality, and daily fluctuations in sleepiness among high school students in Beijing of China compared to Norfolk of USA**
T. Guo (Beijing, CN)

P614 **Certification of professionals in sleep medicine in Europe. What way to go?**
M. Gjerstad (Stanvanger, NO)

P615 **Association between sleep, snoring and chronic disease in Bangladesh: A cross-sectional study**
M. Rahman (Dhaka, BD)

P616 **Sleep education in neurology (SEN) - preliminary results of a European survey**
M. Sieminski (Gdansk, PL)

P617 **Trajectories of sleepiness and insomnia symptoms in Norwegian shift-working nurses**
E. Thun (Bergen, NO)

P618 **Bringing the tablet to the bedroom: LED screen light exposure and consequences on sleep**
F. Rångtell (Uppsala, SE)

Scientific Programme

P619 **Socioeconomic inequalities in sleep: results from international comparative studies on british, finnish, and japanese civil servants**
M. Sekine (Toyama, JP)

P620 **Sleep disorders related quality of life in Tatarstan**
E. Yakupov (Kazan, RU)

Other Session, Lecture Hall F

16:30 - 18:00 **Sleep neurologists business meeting**

Track General, Other Session, Lecture Hall A

18:00 - 20:00 **ESRS Business Meeting**

Lecture Hall G

18:00 - 19:00 **Press Conference Bioprojet**

18:00 - 19:00 **The histamine pathway: new hope in narcolepsy**
J.-C. Schwartz (Paris, FR)
Y. Dauvilliers (Montpellier, FR)
G. Plazzi (Bologna, IT)

Scientific Programme

Friday, 16 September 2016

Track Respiratory, Symposium, Lecture Hall A

08:30 - 10:30 Women´s sleep health - state of the art

08:30 - 09:00	**291**	**Sleep in women across the lifespan - different to men** R. Riha (Edinburgh, UK)
09:00 - 09:30	**292**	**Respiratory and upper airway physiology in women: implications for sleep-disordered breathing** D. Eckert (Sydney, AU)
09:30 - 10:00	**293**	**How to identify and manage pregnancy induced sleep disordered breathing** C. Sullivan (Sydney, AU)
10:00 - 10:30	**294**	**Risks of sleep disordered breathing in very severe obese pregnancy for mother and offspring** R. Reynolds (Edinburgh, UK)

Track Neuropsychiatry, Symposium, Lecture Hall B

08:30 - 10:30 The etiology of narcolepsy

08:30 - 09:00	**295**	**HLA: susceptibility versus protective alleles** M. Tafti (Lausanne, CH)
09:00 - 09:30	**296**	**What is necessary to destroy hypocretin cells? T cell autoimmunity on hypocretin** U. Kallweit (Berne, CH)
09:30 - 10:00	**297**	**Adaptive versus innate immunity in narcolepsy with hypocretin deficiency** B.R. Kornum (Glostrup, DK)
10:00 - 10:30	**298**	**Recent findings in translational and clinical research** G.-J. Lammers (Leiden, NL)

Track Basic, Symposium, Lecture Hall C

08:30 - 10:30 Melanopsin: shedding new light on sleep, cognition and mood regulation

08:30 - 09:10	**299**	**Melanopsin regulates both sleep-promoting and arousal-promoting responses to light** S. Peirson (Oxford, UK)

Scientific Programme

09:10 - 09:50	**301**	**A model to predict sleep-wake alterations induced by aberrant exposure to light** P. Bourgin (Strasbourg, FR)
09:50 - 10:30	**302**	**Individual vulnerability to light at night and its impact on sleep and cognition** C. Cajochen (Basel, CH)

Track Neuropsychiatry, Oral Session, Lecture Hall D

08:30 - 09:30 Movement disorders impacting on sleep

08:30 - 08:42	**O303**	**Hypnic jerks are an underestimated sleep motor phenomenon in patients with parkinsonism. A video-polysomnographic and neurophysiological study** G. Chiaro (Lugano, CH)
08:42 - 08:54	**O304**	**The vestibular evoked myogenic potentials as a new tool to investigate brainstem dysfunctions in REM sleep behavior disorder** E.R. de Natale (Sassari, IT)
08:54 - 09:06	**O305**	**Single-dose ferric carboxymaltose for the treatment of restless legs syndrome in iron deficient non-anaemic patients - a randomized, placebo-controlled trial** C. Trenkwalder (Kassel, DE)
09:06 - 09:18	**O306**	**Positional nystagmus from benign paroxysmal positional vertigo (BPPV) in polysomnography of Parkinson disease (PD) patients** Y. Valko (Zurich, CH)
09:18 - 09:30	**O307**	**The relationship between restless legs syndrome and hypoxia in the general population** A. Szentkirályi (Münster, DE)

Track Translational, Symposium, Lecture Hall E

08:30 - 10:30 Sleep in normal and pathological ageing

08:30 - 09:00	**309**	**Consolidation of intentions in prospective memory in young and older adults** G. Rauchs (Caen, FR)
09:00 - 09:30		**Neural correlates of wake and sleep dependent memory consolidation in healthy aging** A. Mary (Brussels, BE)
09:30 - 10:00	**310**	**Excessive daytime sleepiness and cognitive decline in Parkinson´s disease: A clinical approach** M. Gjerstad (Stanvanger, NO)

Scientific Programme

10:00 - 10:30	**311**	**Relationship between sleep and amyloid deposition in early stages of neurodegeneration** J. Cantero (Seville, ES)

Track Neuropsychiatry, Oral Session, Lecture Hall D

09:30 - 10:30 Medical and psychiatric aspects of sleep

09:30 - 09:42	**O312**	**Changes in accident and emergency attendances over the switches to and from daylight saving time** E. Ferrazzi (Padova, IT)
09:42 - 09:54	**O313**	**Longitudinal changes in chronotype co-occur with clinical improvements in young persons with mood disorders** R. Robillard (Camperdown, NSW, AU)
09:54 - 10:06	**O314**	**The role of ADHD in circadian rhythm and seasonal affective symptoms in a cohort of adults with depression and/or anxiety disorders** D. Bijlenga (The Hague, NL)
10:06 - 10:18	**O315**	**The impact of cardiometabolic risk factors on all-cause mortality is modified by objective short sleep duration** J. Fernandez-Mendoza (Hershey, US)
10:18 - 10:30	**O316**	**The role of sleep disturbances, stress and anxiety in nicotine dependence** A. Cohen (Emek Yezreel, IL)

Track Neuropsychiatry, Symposium, Lecture Hall A

11:00 - 13:00 Breaking the link between disturbances of sleep and emotion regulation

11:00 - 11:30	**317**	**The role of early-life stress and epigenetics in adult insomnia** L. Palagini (Pisa, IT)
11:30 - 12:00	**318**	**Poor sleep predicts symptoms of depression - In symposium: breaking the link between disturbances of sleep and emotion regulation** T. Paunio (Helsinki, FI)
12:00 - 12:30	**319**	**The link between disturbed sleep, emotional reactivity and mental disorders** C. Baglioni (Freiburg, DE)
12:30 - 13:00	**320**	**Three-year follow up of Internet insomnia treatment compared to active control treatment - effects on insomnia and prevention of depression** K. Blom (Stockholm, SE)

Track Translational, Round Table, Lecture Hall B

11:00 - 13:00 Consequences of sleep loss in brain: from birth to aging

Scientific Programme

11:00 - 11:30	**321**	**The effect of sleep disruption during early post-weaning development in rats** I. Gvilia (Tbilisi, GE)
11:30 - 12:00	**322**	**Neurochemical consequences of sleep deprivation in adult rodent brain** R. Basheer (West Roxbury, US)
12:00 - 12:30	**323**	**REM sleep deprivation: a cross talk between regulators of stress and REM sleep** M. Kimura (Munich, DE)
12:30 - 13:00	**324**	**Sleep restriction in the young versus aged: molecular and metabolic consequences** N. Naidoo (Philadelphia, US)

Track Human Sleep, Oral Session, Lecture Hall C

11:00 - 13:00 Learning, memory and cognition

11:00 - 11:12	**O325**	**Sleep structure changes following “ecological” cognitive training** M. Cerasuolo (Caserta, IT)
11:12 - 11:24	**O326**	**Cholinergic enhancement during sleep rescues declarative memories from interference** E. McDevitt (Riverside, CA, US)
11:24 - 11:36	**O327**	**A short daytime nap is necessary for consolidating memories in three month old infants** K. Horvath (Budapest, HU)
11:36 - 11:48	**O328**	**Psychophysiological responses to prenatally presented nursery rhymes in sleep and waking new-borns** M. Schabus (Salzburg, AT)
11:48 - 12:00	**O329**	**BDNF Val66Met polymorphism interacts with sleep consolidation to predict ability to create new declarative memories** N. Gosselin (Montreal, QC, CA)
12:00 - 12:12	**O330**	**Opposing short- and long-term effects of REM sleep on emotional processing: Preliminary evidence for an activation-attenuation effect** G.G. Werner (Munich, DE)
12:12 - 12:24	**O331**	**Autonomic activity during sleep predicts improvement in mirror tracing skill but not memory for word pairs** L. Whitehurst (Riverside, CA, US)
12:24 - 12:36	**O332**	**The influence of medial prefrontal cortex density on sleep-related memory consolidation is mediated by age, but not by slow wave activity** L. Frase (Freiburg, DE)
12:36 - 12:48	**O333**	**Sleep and directed forgetting: the role of napping in the consolidation of relevant and irrelevant memories** B. Blaskovich (Budapest, HU)

Scientific Programme

12:48 - 13:00	**O334**	**The impact of reduced work-time on sleep and stress - a controlled intervention study using diary data** H. Schiller (Stockholm, SE)

Track Neuropsychiatry, Oral Session, Lecture Hall D

11:00 - 13:00 Hypersomnia: from narcolepsy to driving

11:00 - 11:12	**O335**	**Longitudinal cortical thickness change in narcolepsy patients with cataplexy: a five-year follow-up study** J.W. Cho (Yangsan, KR)
11:12 - 11:24	**O336**	**MWT performance and real-life driving ability** I. Virtanen (Turku, FI)
11:24 - 11:36	**O337**	**The spectrum of motor manifestations during REM sleep in children with narcolepsy type 1: REM sleep behavior disorder or status dissociatus?** E. Antelmi (Bologna, IT)
11:36 - 11:48	**O338**	**Diffusion tensor imaging (DTI) in post-pandemrix narcolepsy** H.T. Juvodden (Oslo, NO)
11:48 - 12:00	**O339**	**Morbidity in adult and aging narcolepsy** P.J. Jennum (Glostrup, DK)
12:00 - 12:12	**O340**	**Comorbidity between immune and central hypersomnolence disorders: a case-control study** L. Barateau (Montpellier, FR)
12:12 - 12:24	**O341**	**Classification of Narcolepsy with Cataplexy versus Narcolepsy without Cataplexy, and Narcolepsy type 1 versus Narcolepsy type 2: a machine learning approach** Z. Zhang (Barmelweid, CH)
12:24 - 12:36	**O342**	**Temporal changes in the cerebrospinal fluid level of hypocretin-1 and histamine in narcolepsy** R. Lopez (Montpellier, FR)
12:36 - 12:48	**O343**	**Altered brain perfusion patterns in idiopathic hypersomnia** T.T. Dang-Vu (Montreal, QC, CA)
12:48 - 13:00	**O344**	**CD8 T cell-mediated killing of orexinergic neurons induces a narcolepsy-like phenotype in mice** C. Peyron (Lyon, FR)

Track Basic, Symposium, Lecture Hall E

11:00 - 13:00 Sleep loss, neurobiology, and cognition

11:00 - 11:30	**345**	**Spatio-temporal dynamics of brain activity during sleep** V. Vyazovskiy (Oxford, UK)

Scientific Programme

11:30 - 12:00	**346**	**Functional connectivity predicts sleep deprivation vulnerability** M. Chee (Singapore, SG)
12:00 - 12:30	**347**	**Dissociating effects of sleep deprivation on distinct cognitive processes using variants of the Digit Symbol Substitution Test** K. Honn (Spokane, US)
12:30 - 13:00	**348**	**Sleep and performance during development** R. Huber (Zurich, CH)

Track General, Keynote Lecture, Lecture Hall A

14:00 - 14:45 Keynote Lecture 5 L. Parrino

14:00 - 14:45	**349**	**The resilient brain: the adaptive role of arousals and CAP during sleep** L. Parrino (Parma, IT)

Track Respiratory, Symposium, Lecture Hall A

15:00 - 17:00 The consequences of apnoea in infancy and childhood: effects on the cardiovascular system and daytime functioning

15:00 - 15:30	**350**	**Persistent apnoea of prematurity at hospital discharge - does it matter?** D. Elder (Wellington, NZ)
15:30 - 16:00	**351**	**The natural history of sleep disordered breathing in childhood - will it improve with age?** A. Li (Hong Kong, CN)
16:00 - 16:30	**352**	**Natural history of sleep-disordered breathing in childhood: Risk factors and association with clinical factors** E. Bixler (Hershey, PA, US)
16:30 - 17:00	**353**	**Is current treatment effective for resolving consequences of paediatric OSA?** R.S. Horne (Melbourne, AU)

Track Neuropsychiatry, Joint Symposium, Lecture Hall B

15:00 - 17:00 Joint Symposium EAN - ESRS

15:00 - 15:24	**354**	**Narcolepsy** C. Bassetti (Berne, CH)
15:24 - 15:48	**355**	**Sleep-related hypermotor seizures** L. Nobili (Milan, IT)

Scientific Programme

15:48 - 16:12	**356**	**Idiopathic REM sleep behavior disorder** A. Iranzo (Barcelona, ES)
16:12 - 16:36	**357**	**Restless legs syndrome - new concepts** C. Trenkwalder (Kassel, DE)
16:36 - 17:00	**358**	**Sleepwalking** R. Khatami (Barmelweid, CH)

Track Human Sleep, Symposium, Lecture Hall C

15:00 - 17:00 Effects of chronic sleep loss on cognition, mood and health in children and adolescents and their possible remedy

15:00 - 15:40	**360**	**Cognitive consequences of two cycles of sequential sleep restriction and recovery in adolescents** J. Lo (Singapore, SG)
15:40 - 16:20	**361**	**Sleep loss affects adolescents' classroom functioning, safety, and metabolic health** D. Beebe (Cincinnati, US)
16:20 - 17:00	**362**	**Impact of sleep restriction and extension on children's mood** J. Carrier (Montreal, CA)

Track Translational, Oral Session, Lecture Hall D

15:00 - 17:00 Insomnia in all its forms

15:00 - 15:12	**O363**	**The polysomnographical characteristics of women who have sought medical help for sleep problems - a large study of sleep macro and micro architeture** T. Åkerstedt (Stockholm, SE)
15:12 - 15:24	**O364**	**Persistence of insomnia over a 5-year period in a population-based sample** C.M. Morin (Quebec, CA)
15:24 - 15:36	**O365**	**Network meta-analysis on the effectiveness of cognitive behavioral therapies for insomnia on daytime depression and fatigue** A. Ballesio (Rome, IT)
15:36 - 15:48	**O366**	**Improvements of adolescent psychopathology after insomnia treatment: results from a randomized controlled trial over 1 year** E. de Bruin (Amsterdam, NL)
15:48 - 16:00	**O367**	**Insomnia symptoms and risk of coronary heart disease death in a community-based cohort** L. Mallon (Uppsala, SE)

Scientific Programme

16:00 - 16:12	**O368**	**Insomnia is associated with increased C-reactive protein levels in adolescents: role of objective short sleep duration** J. Fernandez-Mendoza (Hershey, US)
16:12 - 16:24	**O369**	**Integrating cognitive behavioural therapy for insomnia (CBT-I) into primary care: does it work in the real world?** J.R. Davidson (Kingston, CA)
16:24 - 16:36	**O370**	**Differential effects of Cognitive Behavioural Therapy for Insomnia (CBTi) in patients with and without depressive symptoms** C. Zunzunegui (Solothurn, CH)
16:36 - 16:48	**O371**	**Insomnia in adults with attention-deficit/hyperactivity disorder (ADHD): impact of clinical subtype and pharmacological treatment** E.J. Brevik (Bergen, NO)
16:48 - 17:00	**O372**	**Sleep and productivity benefits of digital cognitive behavioural therapy for insomnia: a randomised controlled trial conducted in the workplace environment** A.I. Luik (Oxford, UK)

Track Basic, Symposium, Lecture Hall E

15:00 - 17:00 How does caffeine keep the brain awake? New approaches and concepts

15:00 - 15:30	**373**	**Why do we fall asleep when bored? — The role of the nucleus accumbens in sleep-wake regulation** M. Lazarus (Tsukuba, JP)
15:30 - 16:00	**374**	**Caffeine increases light responsiveness of the mouse circadian pacemaker** T. de Boer (Leiden, NL)
16:00 - 16:30	**375**	**Caffeine effects on human circadian clocks in vivo and in vitro** K.P. Wright (Boulder, US)
16:30 - 17:00	**376**	**Sustained sleep restriction and cumulative cognitive impairment: allostatic changes in a sleep-homeostatic, adenosinergic pathway?** H.P. van Dongen (Spokane, US)

Track General, Poster, Poster Exhibition

17:15 - 18:45 Poster Session 3

	P630	**The temporal dynamics of criticality in the brain during waking and sleep** C. Thomas (Oxford, UK)
	P631	**Tuberomammillary histaminergic neurons increase locus coeruleus wake-enhancing actions** A. Díez-García (Madrid, ES)

Scientific Programme

P632 **The REM-enhancing ventral pontine reticular area is inhibited by tuberomammillary histaminergic neurons**
A. Díez-García (Madrid, ES)

P633 **In search of cerebrospinal fluid biomarkers of fatigue in multiple sclerosis: a proteomics study**
P.O.O. Valko (Zurich, CH)

P634 **Sleep - wakefulness differences in auditory steady-state responses**
U. Górska (Kraków, PL)

P635 **The olfactory bulb: the shortcut in the route leading from the nose to sleep/wake-regulatory neurons**
C. Tesoriero (Verona, Verona, IT)

P636 **Role of histamine H1-receptor on behavioral states and wake maintenance during deficiency of a brain activating system**
J.-S. Lin (Lyon, FR)

P637 **Frequency-dependent slope analysis of EEG slow-waves following sleep deprivation in mice**
J. Hubbard (Strasbourg, FR)

P638 **Circadian and homeostatic modulation of multi-unit activity in dopaminergic and striatal structures**
K. Fifel (Leiden, NL)

P639 **Role of the ascending cholinergic neurons on the regulation of blood pressure fluctuation during REM sleep**
Y. Koyama (Fukushima, JP)

P640 **Accelerated recovery from deep barbiturate anesthesia induced sleep by repetitive intracerebroventricular microinjection of OrexinA**
O. Mchedlidze (Tbilisi, GE)

P641 **Sex differences in the hemispheric lateralization of sleep spindles in humans**
R. Bódizs (Budapest, HU)

P764 **Marmoset as a primate sleep research model animal**
T. Kodama (Tokyo, JP)

P765 **Sleep homeostasis after the induction of a torpor-like state in the rat**
T. Hitrec (Bologna, IT)

P766 **c-Fos expression in the anterior and mediodorsal thalamus following cold exposure in the rat**
A. Di Cristoforo (Bologna, IT)

P767 **Sleepiness is more related to snoring than obstructive sleep apnea in the general population**
E.S. Arnardottir (Reykjavik, IS)

P769 **Diurnal shift in the synaptic wiring of orexin/hypocretin neurons**
C. Laperchia (Verona, IT)

Scientific Programme

P770 **Cardiac autonomic profile during daytime sleep in healthy young adults**
N. Cellini (Padova, IT)

P771 **Having children is associated with easier adaptation to sleep polysomnography**
P. D'Onofrio (Stockholm, SE)

P772 **Low-frequency oscillations in REM-sleep: a high density EEG study**
G. Bernardi (Madison, WI, US)

P773 **Local and global sleep spindles in mice**
R. Purple (Oxford, UK)

P642 **The interaction of chronotype parameters, genetic factors and road accident risk in Russian shiftworking bus drivers**
A. Puchkova (Moscow, RU)

P643 **Evaluation of activity-rest circadian rhythm in dogs (Canis lupus familiaris) in relation to their lifestyle**
M.Á. Pascual (Palma de Mallorca, ES)

P644 **Effects of light in the quality of sleep in function of the availability of light in institutionalized aged subjects**
J.Á. Rubiño (Palma de Mallorca, ES)

P645 **Effect of age and chronotype in kinetics of sleep pressure build-up**
J. Taillard (Bordeaux, FR)

P646 **The effects of a new dawn-dusk simulator on circadian rest-activity cycles, sleep, mood and well-being in dementia patients - a pilot study**
V. Bromundt (Basel, CH)

P647 **The circadian clock in narcolepsy: results from seven patients with type 1 narcolepsy**
F.J. Puertas (Alzira, Valencia, ES)

P648 **Diurnal time course of sleepiness in Italian junior and high school students**
M. Cerasuolo (Caserta, IT)

P649 **Continuity of circadian rhythm from childhood to adolescence - associations with late adolescent chronotype**
L. Kuula (Helsinki, FI)

P650 **Summer season improves sleep in shiftwork and daytime work**
A. Lowden (Stockholm, SE)

P651 **Effects of type of work and life style on sleep among urban and rural workers**
C.R.C. Moreno (Sao Paulo, São Paulo, BR)

P652 **Need for recovery after work is associated with factors related with the organization of work and health in pilots**
E.C. Marqueze (Santos, BR)

Scientific Programme

P653 **Pupil size dynamics during prolonged wakefulness reflects the dual interaction of sleep-homeostasis and the circadian timing system**
M. Van Egroo (Liège, BE)

P654 **Longitudinal daylight exposure reduces moderate depressive symptoms**
A. Lowden (Stockholm, SE)

P774 **Understanding adolescents' social media habits, fear of missing out and sleep quality**
H. Scott (Glasgow, UK)

P775 **Impact of caffeine on sleep and behaviour in children**
E.J. Watson (Adelaide, SA, AU)

P776 **The relationship between coping strategies, fatigue and psychological health in nurses and midwives**
S. Centofanti (Adelaide, AU)

P777 **Sleep and occupational health of seafarers - a comparative study in European and Chinese shipping industry**
W.M. van Leeuwen (Stockholm, SE)

P778 **Assessing the impact of physical activity on sleep outside clinical setting using data from a large population of connected devices users**
B. Brouard (Issy-les-Moulineaux, Île-de-France, FR)

P779 **Impact of a restrictive use of electronic devices during the evening on sleep in adolescents**
A. Perrault (Geneva, CH)

P780 **Temporal organization of behavioural activity by the SCN in the diurnal grass rat Arvicanthis ansorgei**
A. Ramkisoensing (Oxford, Oxfordshire, UK)

P781 **#sleepyadults - social media use and its impact on sleep and wellbeing beyond #sleepyteens**
S. Biello (Glasgow, ---Please Select---, UK)

P782 **Subjective sleepiness: a motivational state facilitating sleep-preparatory behaviours**
J. Axelsson (Stockholm, SE)

P783 **Daylight exposure, depression and sleep in Swedish adolescents**
G. Özturk (Stockholm, SE)

P664 **Sleep enhances event-based prospective memory in older adults, but only for congruent intentions**
N. Legrand (Caen, FR)

P665 **The impact of developmental changes of sleep spindles on declarative learning and general cognitive abilities - a longitudinal approach**
K. Hoedlmoser (Salzburg, AT)

P666 **Sleep and risk-related decision-making in adolescents**
M.L. Wong (Pokfulam, HK)

Scientific Programme

P667 **Menstrual cycle may affect sleep-dependent memory consolidation via variation in thalamocortical synchrony**
N. Sattari (Riverside, CA, US)

P668 **Cognitive ability is not associated with sleep characteristics in late adolescence**
A.-K. Pesonen (Helsinki, FI)

P669 **The effect of CPAP therapy on sleep dependent memory consolidation**
I. Djonlagic (Boston, MA, US)

P670 **Does emotion regulation explains the impact of emotion on sleep physiology? Experiential versus cognitive emotion regulation**
M. Vandekerckhove (Brussel, Oost-Vlaanderen, BE)

P671 **A comparative study of sleep and mood between young elite athletes and age-matched controls**
A. Harris (Bergen, NO)

P672 **The effect of post-learning sleep deprivation on spatial memory in mice**
S. Karabulut (Kayseri, TR)

P673 **Memory quality according to sleep quantity among students**
V. Vovc (Chisinau, MD)

P674 **The relationships between cognitive complaints and objective cognitive performance, anxiety, depression, and sleep quality in idiopathic REM sleep behavior disorder**
J.-F. Gagnon (Montreal, QC, CA)

P675 **targeted memory reactivation of correct and interferent word-pairs during NREM sleep paradoxically blocks memory consolidation benefits**
J. Farthouat (Bruxelles, BE)

P676 **Sleep changes following a spatial judgment pointing task with egocentric and allocentric components**
F. Conte (Caserta, IT)

P784 **Cortical burst firing in vitro is homeostatically regulated: A model for sleep regulation**
S. Saberi-Moghadam (Lausanne, CH)

P785 **Global field synchronisation reveals REM sleep as a highly synchronised brain state**
T. Rusterholz (Zurich, CH)

P786 **Effects of acute and chronic sleep deprivation on metabolomic and transcriptomic profiles in humans**
V. Aho (Helsinki, FI)

P787 **Sleep restriction increases reactive aggression but only for women in the follicular phase of the menstrual cycle**
K. MacDonald (St Catharine's, ON, CA)

Scientific Programme

P788 **Sleep restriction disrupts valence categorization of pictures for women with high progesterone**
K. Lustig (St Catharine's, ON, CA)

P789 **The effects of sleep deprivation on larval zebrafish transcriptome**
H.M.K. Ikonen (Helsinki, FI)

P790 **EEG based quantitative and qualitative analysis of sleep and sleep homeostasis in the European starling**
M. Rusche (Groningen, NL)

P791 **Late stages of visual and auditory information processing are affected by sleep deprivation**
A.S.S. Karunajeewa (Geneva, Geneva, CH)

P792 **Synaptic mechanisms of therapeutic sleep deprivation in major depression**
C. Nissen (Freiburg, DE)

P794 **Sleep deprivation reduces the quality of spontaneous helpfulness**
T. Sundelin (Stockholm, SE)

P795 **Thank god it's friday - sleep improved**
P. D'Onofrio (Stockholm, SE)

P796 **Sleep disorders among medical students of Bolan medical college Quetta, Pakistan**
A. Akram (Quetta, balochistan, PK)

P798 **No effect of sleep restriction on reading the mind in the eyes**
T. Sundelin (Stockholm, SE)

P799 **Automated analysis of actimetry used for the detection of disease phenotypes in sleep medicine**
R. Leenings (Osnabrück, DE)

P800 **Agreement of desaturation indices between Masimo SET and Nonin oximeter technologies**
J. Gavlak (Southampton, UK)

P801 **Hitting the right spot: a new closed-loop stimulation procedure for oscillatory phase targeting**
L.M. Talamini (Amsterdam, NL)

P802 **Objective drowsiness monitoring to assess fitness for duty**
C. François (Liège, BE)

P803 **Accuracy of wrist actigraphy for sleep during days off compared to workdays**
P. D'Onofrio (Stockholm, SE)

P804 **Performance of a vestibular and massage intervention for athletes suffering of sleep deficit. Effects on cardiovascular response, reaction time, motivation and sleep quality**
T. Zamora (Valencia, ES)

Scientific Programme

P805 **Spontaneous, localized EEG activations in REM sleep: a high-density EEG investigation**
M. Betta (Lausanne, CH)

P806 **Effects of cortical derivation on electroencephalogram power spectrum characteristics during sleep and wakefulness in mice**
S. Hasan (Oxford, UK)

P818 **Our initial experience with nasal stent application in snoring and mild obstructive sleep apnea**
M. Milkov (Varna, BG)

P819 **Prevalence of metabolic syndrome and risk factors of obstructive sleep apnea among locomotive drivers**
A. Najafi (Tehran, IR)

P820 **Contributing factors that differentiate the NREM/REM dependent OSA**
K. Eui Joong (Seoul, KR)

P821 **Causes of non-compliance to continuous positive airway pressure - CPAP-treatment**
A. Ramazanova (Lisbon, Lisbon, PT)

P822 **Occlusal changes associated with 1-year mandibular advancement device treatment in obstructive sleep apnea patients**
T. Galic (Split, HR)

P823 **Coexistent obstructive sleep apnea and arterial hypertension - antihypertensive treatment**
M. Rozanska (Warsaw, PL)

P824 **Insomnia complaints in lean obstructive sleep apnea patients negatively affect positive airway pressure treatment adherence**
B. Eysteinsdottir (Reykjavik, IS)

P825 **Relationship between clinical information and results obtained in home sleep apnea studies (level III) and standard polysomnography (PSG) - preliminary results**
M.D.C. Travassos (Coimbra, PT)

P827 **A comparison of Respiratory Disturbance Variable (RDV), conventional breathing disturbance indexes and oximetry-based metrics**
A. Bassi (Santiago, Región Metropolitana, CL)

P828 **Underdiagnosed Obstructive Sleep Apnea in patients with Acute Coronary Syndrome: the importance of STOP-BANG questionnaire**
D. Alves (Barcelos, PT)

P829 **Subclinical and clinical axonal damages of upper limb nerves in OSA patients**
Z. Dogas (Split, HR)

P830 **Obstructive sleep apnea syndrome and chronic kidney disease - 2 faces of metabolic disorder**
R. Pleava (Timisoara, RO)

Scientific Programme

P831 **Effects of obstructive sleep apnea on laboratory tests correlated with cardiovascular risk**
A. Nahorecki (Wroclaw, PL)

P832 **The relationship between arousal index and pulse pressure in patients with moderate-severe obstructive sleep apnea and resistant hypertension**
O.C. Deleanu (Bucharest, RO)

P833 **Relationship between the severity of Obstructive Sleep Apnea Syndrome (OSA) and parameters of carbohydrates and lipids metabolism**
A. Gabryelska (Lódz, PL)

P834 **Patients´ knowledge at follow-up predicts adherence to CPAP therapy**
K. Ziherl (Golnik, SI)

P835 **The relationship between circadian blood pressure profile and sleep apnea**
P. Talarowska (Warsaw, PL)

P836 **Benefits of positive airway pressure therapy after an ischemic stroke in obstructive sleep apnea patients**
J. Haba-Rubio (Lausanne, CH)

P837 **Sleep breathing disorders in neuromuscular disorders: data from sleep research unit**
A. Konsta (Athens, GR)

P838 **Is smoking a risk factor for sleep obstructive apnea?**
R. Mirambeaux Villalona (Madrid, Madrid, ES)

P839 **Plasma adropin levels in patients with moderate and severe obstructive sleep apnea**
J. Bozic (Split, HR)

P840 **Gender differences in adherence to noninvasive ventilation in obesity hypoventilation syndrome patients**
I. Šarc (Golnik, SI)

P841 **Treatment of severe obstructive sleep apnea using mandibular advancement devices with auto continuous positive airway pressures. Case report**
V. Sendroiu (Bucharest, RO)

P842 **Circulating exosomes in obstructive sleep apnoea syndrome (OSAS) in adults**
F.J. Puertas (Alzira, Valencia, ES)

P843 **Nocturnal blood pressure fluctuations (NBPFs) in patients with obstructive sleep apnea: measurement, origin, and clinical importance**
G. Küchler (Randersacker, DE)

P844 **Excessive daytime sleepiness and sleep microstructure - correlation between cyclic alternating pattern indices and Epworth sleepiness score in patients with obstructive sleep apnea**
P. Petrov (Sofia, BG)

Scientific Programme

P845 **Blood pressure behavior in OSA patients analysed before and during CPAP therapy using a continuous, non-invasive and cuff-less method**
G. Küchler (Randersacker, DE)

P846 **AirSense 10 AUTOSET for Her ® treatment may increase CPAP compliance in female OSAS patients**
S. Melkko (Turku, FI)

P847 **Hypoglossal nerve stimulation for obstructive sleep apnea: early results from a single site hospital**
V. Certal (Porto, Not applicable, PT)

P848 **Transient nighttime cardiac muscle injury in patients with severe obstructive sleep apnea syndrome?**
E. Kosmas (Neo Faliro, GR)

P849 **Overlap syndrome (chronic obstructive pulmonary disease and respiratory sleep disorders) - experience of Pulmonology Clinic Tg. Mures, Romania**
G. Jimborean (Tirgu Mures, Mures, RO)

P850 **Morbidity and mortality in sleep apnea. A controlled national study**
P.J. Jennum (Glostrup, DK)

P851 **Predictors of objective measured snoring in workers**
T. Furukawa (Fukuoka, JP)

P852 **Independent associations between bicarbonate, apnea severity and hypertension in OSA - a novel link for hypertension development?**
D. Eskandari (Gothenburg, SE)

P853 **Sleep disordered breathing in acute stroke and TIA: prevalence, evolution and impact on functional outcome at 3 months - the prospective SAS CARE polysomnography study**
A.-K. Brill (Bern, CH)

P854 **Acceptance of CPAP therapy for patients with sleep apnea syndrome: comparison split-night-controlled-automatic setting and full-night controlled CPAP options**
A. Terray-Horvath (Budapest, HU)

P855 **Effect of nasal continuous positive airway pressure (CPAP) therapy on sleep architecture (SA) in patients with sleep apnea syndrome**
A. Chikadze (Tbilisi, GE)

P856 **REM sleep imposes a vascular load in COPD patients independent of sleep apnea**
L. Grote (Gothenburg, SE)

P857 **Benzodiazepines effects in obstructive sleep apnea patients**
R. Reis (Porto, PT)

P858 **Relationship between apnea-hyponea index, body-mass-index and the Epworth Sleepiness Scale in patient with OSAS**
L. Khuchua (Tbilisi, GE)

Scientific Programme

P859 **Subjective and objective daytime sleepiness in patients with obstructive sleep apnea syndrome (OSAS): prevalence in patient groups of two separate sleep laboratories**
P. Geisler (Regensburg, DE)

P860 **Use of the Mini-IPIP Questionnaire in assessing CPAP adherence: a two-centre study**
D. Fairley (Edinburgh, UK)

P861 **The obstructive sleep apnea is not associated with increased atherosclerotic burden in patients with coronary disease: a preliminary study**
S. Furlan (São Paulo, BR)

P862 **Efficiency of mandibular advancement devices in the treatment of obstructive sleep apnea**
V. Certal (Porto, Not applicable, PT)

P655 **Circadian melatonin and temperature taus in Delayed Sleep-Wake Phase Disorder and Non-24-Hour Sleep-Wake Rhythm Disorder**
G. Micic (Adelaide, AU)

P656 **The characteristics and influences of social jet lag**
M. Youn (SeongNam, Seoul, KR)

P657 **Commitment language does not predict therapy compliance in adolescents with Delayed Sleep-Wake Phase Disorder**
G. Micic (Adelaide, AU)

P658 **Randomised controlled trial of melatonin to improve sleep initiation and daytime impairments in Delayed Sleep Phase Disorder**
T.L. Sletten (Notting Hill, VIC, AU)

P659 **The role of coping behaviors in delayed sleep phase syndrome**
M. Jansson-Fröjmark (Stockholm, SE)

P660 **The best tool to characterize Delayed Sleep/Wake Phase Syndrome**
C. Reis (Lisbon, PT)

P661 **Impact of occupational stress on sleep characteristics of shift workers**
N.-T. Economou (Athens, GR)

P662 **Morningness Eveningness Questionnaire (MEQ) and salivary DLMO determination: a reliable method of evaluation for circadian pattern**
R. Lecca (Cagliari, IT)

P663 **Clinical and biological aspects of a Delayed Sleep/Wake Syndrome population**
C. Reis (Lisbon, PT)

P696 **Insomnia and hyperarousal: study on the brain wave analysis**
S. Choi (Seoul, KR)

Scientific Programme

P677 **The prevalence of insomnia, excessive daytime sleepiness and snoring across two generations - results from RHINE and RHINESSA, multinational general population studies**
B. Benediktsdottir (Reykjavik, IS)

P678 **The potentially protective function of social support for good sleep**
S. Cohrs (Rostock, DE)

P679 **Insomnia and risk of traffic accidents: a 5-year follow up cohort study**
C.M. Morin (Quebec, CA)

P680 **Altered emotion perception in young adults**
L. Beattie (Glasgow, UK)

P681 **Effects of a behavioural intervention for insomnia in adolescents with depression, anxiety and pain: A pilot study**
L. Aslund (Stockholm, SE)

P682 **Risk factors for sleep disturbances in a natural gas refinery**
Z.B. Alemohammad (Tehran, IR)

P683 **Self-help for insomnia in the mobile era**
A. Baharav (Petach Tiqva, IL)

P684 **Depressed insomniac patients benefit from group cognitive behavioural therapy for insomnia (CBT-I)**
J. Adrien (Paris, FR)

P685 **Familial aggregation of insomnia**
D. Jarrin (Québec, CA)

P686 **Sleep quality measures are more associated with depression and anxiety in patients with non-insomnia sleep disorders than with insomnia**
L. Ghahramanyan (Yerevan, AM)

P687 **Reciprocal relations between job strain and nonrestorative sleep in the Swedish working population**
J. Garefelt (Stockholm, SE)

P688 **Procrastination may cause Insomnia: the moderating role of morningness-eveningness**
I.S.S. Hairston (Tel Aviv, IL)

P689 **Errors in sleep duration perception in insomniac patients**
C. Mestre (Lisbon, PT)

P690 **Attentional bias towards beds in young adults with insomnia symptoms**
L. Beattie (Glasgow, UK)

P691 **Impaired face-matching with poor sleep: implications for security and forensic settings**
L. Beattie (Glasgow, UK)

Scientific Programme

P692 **Coping strategies in chronic insomnia and sleep quality: subjective and objective correlates**
E. Rasskazova (Moscow, RU)

P693 **Neuropsychological evaluation and sleep duration perception errors in insomniac patients**
T. Rebelo-Pinto (Lisbon, PT)

P695 **High physical activity level protect women from future insomnia**
S. Spörndly-Nees (Uppsala, SE)

P863 **Possible familial agrupation of REM Sleep Behavior Disorder (RBD)**
A.J. Pedrera-Mazarro (Madrid, ES)

P864 **Increased fatigue in patients with REM sleep behavior disorder: a retrospective case-control study**
A. Bonakis (Athens, GR)

P866 **Parasomias in adulthood with sleep apnoea**
R. Wanono (Paris, Paris, FR)

P867 **Severity of REM sleep muscle atonia loss in idiopathic REM sleep behavior disorder correlates with abnormalities in the Vestibular Evoked Myogenic Potentials**
M. Figorilli (Cagliari, IT)

P868 **Nightly car crash by a 14 year old boy: Joy riding or … a parasomnia?!**
I. De Volder (Edegem, BE)

P869 **Altered beta band oscillation between tonic and phasic REM sleep in idiopathic RBD**
J.-S. Sunwoo (Seoul, KR)

P697 **Morpho-volumetric changes in subcortical gray matter structures in restless legs syndrome**
M.P. Mogavero (Bari, IT)

P698 **Vibrating therapy pads in treatment refractory restless leg syndrome**
N. Oscroft (Cambridge, UK)

P699 **Peridic limb movements and cronic headache**
M. Aguilar Andújar (Seville, ES)

P700 **Childhood rhythmic movement disorder: a prevalence study**
E. Gogo (Southampton, UK)

P701 **Prevalence and clinical features of restless legs syndrome among Japanese pregnant women with complications**
H. Eto (Nagasaki, JP)

P702 **Post-stroke Leg Movements in sleep (LMS) are common, closely spaced, more for non-affected side, related to stroke location and not classical Periodic Limb Movements (PLMS)**
R. Allen (Baltimore, US)

Scientific Programme

P703 **Restless Legs Syndrome and pain deteriorate daytime sleepiness, body fatigue and sleep - a population based survey**
L. Grote (Gothenburg, SE)

P704 **Incidence of Restless Legs Syndrome in women with chronic widespread pain and the associations with sleep, mood, and biomarkers**
L. Grote (Gothenburg, SE)

P705 **I urge to move and breathe - the impact of the OSAS treatment in patients with previously diagnosed clinically significant RLS**
C. Silva (Lisbon, PT)

P706 **Sleep-wake functions and quality of life in Parkinson's disease: frequency, associations and evolution after deep brain stimulation**
P. Bargiotas (Bern, CH)

P870 **Diffusion Tensor Imaging Tractography in Post Traumatic Brain Injury Hypersomnia**
M. Figorilli (Cagliari, IT)

P871 **A pragmatic approach to test the reliability of a classification of permanent impairment due to narcolepsy**
F. Ingravallo (Bologna, IT)

P872 **How to screen children for narcolepsy?**
A. Wierzbicka (Warsaw, PL)

P873 **Comparison of the smoking prevalence in patients with narcolepsy-cataplexy, narcolepsy without cataplexy and idiopathic hypersomnia**
P. Peřinová (Prague, CZ)

P874 **Causal and symptomatic relationships between multiple sclerosis and narcolepsy**
U. Kallweit (Berne, CH)

P875 **Narcolepsy type 1 comorbid with a transverse myelitis: a common autoimmune background? A case report**
R. Peraita-Adrados (Madrid, ES)

P876 **A case of complete remission of narcolepsy without cataplexy**
P. Geisler (Regensburg, DE)

P877 **Association of inattention, hyperactivity and hypersomnolence: Results from two clinic-based cohorts**
R. Lopez (Montpellier, FR)

P878 **Diagnostic delay in narcolepsy type 1: combining the patients' and the doctors' perspectives**
P.O.O. Valko (Zurich, CH)

P879 **Pitolisant as therapeutic option for narcolepsy: results from the German compassionate-program 2015/16**
H. Hidalgo (Katzenelnbogen, DE)

Scientific Programme

P880 **Objective and subjective perception of sleepiness in the maintenance of wakefulness test differs among patients with narcolepsy, idiopathic hypersomnia, non-organic hypersomnia, and sleep apnoea**
D. Schreier (Bern, CH)

P882 **Description of a Portuguese narcoleptic population**
A. Viegas (Lisbon, PT)

P883 **24% of narcolepsy patients with low CSF Hcrt-1 do not fulfill MSLT criteria for a narcolepsy diagnose**
B.R. Kornum (Glostrup, DK)

P884 **Intravenous immunoglobulin therapy administered early after narcolepsy type 1 onset in three patients evaluated by clinical and polysomnographic follow-up**
E. Ruppert (Strasbourg, FR)

P885 **Cerebrospinal fluid biomarkers of neurodegeneration are decreased or normal in narcolepsy**
P.J. Jennum (Glostrup, DK)

P707 **Assessment of heart rate variability in a population of Sardinian patients affected by amyotrophic lateral sclerosis**

P708 **Chronic barbiturates use in epilepsy after brain surgery: detrimental effects on REM sleep and total sleep time**
A. Gagliardo (Palermo, IT)

P709 **Sports concussions in a student population: are we losing sleep over them?**
M. Gardani (Glasgow, UK)

P710 **Nocturnal sleep, cognitive and emotional disorders in patients with stenosis and occlusion of the internal carotid artery**
I. Berezina (Moscow, RU)

P711 **Non-rapid eye movement sleep instability in fronto-temporal dementia**
M. Maestri (Pisa, IT)

P712 **Sleep structure changes in disorders of consciousness due to traumatic brain injury before and after transcranial direct current stimulation**
N.-T. Economou (Athens, GR)

P713 **Cortisol levels mediate the effect of poor sleep on memory decline in Mild Cognitive Impairment (MCI) and dementia**
M. Basta (Voutes-Heraklion, Crete, GR)

P714 **Insomnia, neuromyotonia and small fiber neuropathy in a patient with LGI1 and CASPR2 autoantibody and oncocytic Schneiderian papilloma**
K. Kaveh Moghadam (Bologna, IT)

P715 **Sleep-wake changes and chemokine CXCL10 levels in the progression of experimental sleeping sickness**
M. Bentivoglio (Verona, IT)

Scientific Programme

P716 **Health-related quality of life indices are lower in patients with epilepsy and poor sleep quality than in controls**
A. Darabyan (Yerevan, AM)

P717 **Antiepileptic medication effects on sleep quality and health-related quality of life in patients with epilepsy**
S. Khachatryan (Yerevan, AM)

P718 **Association of different clinical parameters with excessive daytime sleepiness in Parkinson's disease**
Z. Tavadyan (Yerevan, AM)

P719 **Brain lesions and sleep-onset REM**
I. Loução de Amorim (Lisboa, PT)

P720 **Sleep quality, allodynia symptoms and quality of life in primary headache sufferers**
M.P. Prudenzano (Bari, IT)

P721 **Clinical profile of patients with sleep apnoea in a tertiary hospital in São Paulo, Brazil**
C.F.S.N. Santos (Sao Paulo, BR)

P722 **Impact of 24-h blood pressure monitoring on objective sleep duration and fragmentation in resistant hypertensive patients**
R.M. Bruno (Pisa, IT)

P723 **Increased sleep fragmentation is associated with non-dipping pattern in resistant hypertensive patients**
R.M. Bruno (Pisa, IT)

P724 **Selectively disturbed slow wave sleep reduced insulin sensitivity in healthy young adults. Preliminary report**
M. Meira e Cruz (Lisboa, PT)

P725 **Long-term CPAP therapy in patients with obstructive sleep apnea and resistant hypertension may independently contribute to BMI reduction**
S. Mihaicuta (Timisoara, RO)

P726 **CPAP titration: memory card versus clinical titration**
C.F.S.N. Santos (Sao Paulo, BR)

P727 **Sleep apnea obstructive associated with other comorbidities**
C. Borcea (Bucharest, RO)

P728 **Effects of hot stone massage therapy on quality of sleep in hemodialysis patients**
H. Ghavami (Urmiyeh, IR)

P729 **Abnormal sleep pattern in critically ill patients**
Y. Boyko (Odense, DK)

P730 **Effects of obstructive sleep apnoea severity on blood pressure indices in male subjects without cardiometabolic disease**
S.J. Crinion (Dublin, IE)

Scientific Programme

P731 **Short sleep duration and cardiovascular disease risk among Bangladeshi adult population**
S.K. Mistry (Dhaka, BD)

P732 **Correlation of excessive daytime sleepiness and obstructive sleep apnea risk and efficacy of hemodialysis in end stage renal disease**
M. Amini (Mashhad, IR)

P733 **Evaluation of sleep disordered breathing, daytime somnolence and fatigue, quality of sleep and chronotype in a large cohort of patients with Bardet-Biedl syndrome**
E. Ruppert (Strasbourg, FR)

P735 **Validity and reliability of Greek version of functional outcomes of sleep questionnaire in patients with obstructive sleep apnea overlap with COPD**
S. Tryfon (Pamplona, --Επιλογή Κομητείας-, GR)

P886 **The relationship between sleep and evening melatonin in adults with autism spectrum disorder (ASD) and no intellectual impairment**
E. Baker (Bundoora, AU)

P887 **Hyperarousal prior to sleep in adults with autism spectrum disorder (ASD) and no comorbid intellectual impairment**
E. Baker (Bundoora, AU)

P888 **Differential napping effects on the perception of emotional facial expression in depressed versus non-depressed individuals**
N.T.K. Lau (Hong Kong, HK)

P889 **Sleep in major depression: relation to outcome after electroconvulsive therapy**
R. Göder (Kiel, DE)

P890 **How should we screen patients with severe mental disorders for obstructive sleep apnea?**
K. Szaulinska (Warsaw, mazowieckie, PL)

P891 **Sleep problems and self-harm in adolescence: A self-report survey in schools in Scotland**
K.H.H. Russell (Glasgow, Scotland, UK)

P892 **A feasibility study of light box use for postnatal depression in an inpatient and community setting**
J. Hicks (Bristol, UK)

P893 **Sleep and mood in individuals with mental disorders and staff: a study in a specialist and secure care institution**
K. Porcheret (Oxford, UK)

P894 **Sexual dysfunctions in patients referred to sleep disorders center for hypersomnia or insomnia treatment**
A. Wichniak (Warsaw, PL)

Scientific Programme

P895 **Sleep spindle deficit in Schizophrenia: a high-density EEG study in First-Degree Relatives**
A. D'Agostino (Milan, IT)

P896 **Affective disorders in newly diagnosed OSAS patients - OSAS severity does not matter**
N.-T. Economou (Athens, GR)

P897 **Spatially specific changes in EEG spectral power in post traumatic stress disorder during REM and NREM sleep**
L.M. Talamini (Amsterdam, NL)

P898 **Sigma fluctuations in police officers and combat veterans with PTSD**
L.M. Talamini (Amsterdam, NL)

P899 **Association between sleep features and hyperactivity and attention deficit in school children of the Biobio region in chile**
C. Betancur Moreno (Concepción, Biobío, CL)

P900 **Similar prevalence of sleep disorders across individuals with a history of anxiety, depression, bipolar or psychotic disorders**
R. Robillard (Camperdown, NSW, AU)

P902 **High-resolution examination of the relationship between sleep disturbance, functioning and psychotic symptom severity in schizophrenia: a novel experience sampling study**
S.D. Kyle (Oxford, UK)

P736 **Assessment of sleep disorders among pharmacy students, University of Baluchistan Quetta, Pakistan**
S. Riaz (Quetta, PK)

P737 **Sleep onset transition: insights from functional connectivity analyses**
A. Fernandez Guerrero (Zürich, CH)

P738 **Loreta inverse solution of brain dynamics during the sleep onset transition**
A. Fernandez Guerrero (Zürich, CH)

P739 **Polysomnographic normative values in a healthy asian population**
P. Song (Singapore, SG)

P740 **Effects of long working hours and long work periods on sleep among Norwegian pilots and crew members**
S. Waage (Bergen, NO)

P741 **Sleep characteristics and sleep quality in a rural Brazilian family-based cohort**
F. Beijamini (São Paulo, BR)

P742 **Heart rate variability separates between rapid eye-movement sleep and slow wave sleep in healthy young adults**
T. Mikoteit (Basel, CH)

Scientific Programme

P743 **The effect of sleep/wake patterns in adolescence on body mass index in early adulthood**
S. Reyes (Santiago, CL)

P744 **How does the duration of recovery between shifts determine sleep duration? Analysing diary and actigraphy data from 14 studies**
J. Axelsson (Stockholm, SE)

P745 **SEVERE SAS in a case of proopiomelanocortin (POMC) deficiency**
M. Puligheddu (Cagliari, IT)

P746 **Sleep architecture and epileptic activity in childhood absence epilepsy spectrum before treatment**
A. Bonakis (Athens, GR)

P747 **Night-sleep duration trajectories, fat mass and fat free mass in preschool-aged children from the EDEN birth-cohort**
S. Plancoulaine (Villejuif, FR)

P748 **Environmental factors related to sleep quality at the age of three months- the CHILD-SLEEP cohort**
E.J. Paavonen (Helsinki, FI)

P749 **Paediatric polysomnography - the nine year experience of a sleep laboratory**
D. Machado (Vila Nova de Gaia, PT)

P750 **Bedtime eating and sleep disturbances among 2 years old children**
L. Xiu (Stockholm, SE)

P751 **Magnetic resonance imaging measurements of the upper airway in sickle cell disease patients compared with age-matched healthy controls and association with sleep-disordered breathing**
L. Brennan (London, UK)

P752 **Body rolling with epileptiform discharges in EEG: epilepsy or rhythmic movement disorder?**
B. Gnidovec Stražišar (Celje, SI)

P753 **Sleep related problems, circadian preference and scholastic achievement: a study on a representative sample of Italian eight grade students**
P.M. Russo (Bologna, IT)

P754 **Heart rate variability patterns according to sleep-waking stages in healthy adolescents: Lasting effects of iron deficiency anemia in infancy**
P. Peirano (Santiago, CL)

P755 **Safe infant sleep at nursery schools: prevention of sudden infant death syndrome**
Y. Oka (Ehime, JP)

P756 **Precise artificial arousals in babies as a strategy to resume prolonged apneas without disrupting sleep**
T. Zamora (Valencia, ES)

Scientific Programme

P757 **Comics for pediatric health education: instructions about sleep disorders for children with learning deficit**
E. Camargo (São Paulo, BR)

P758 **Prevalence and nature of sleep problems during childhood in children born extremely premature**
K.M. Stangenes (Bergen, NO)

P759 **Sleep disorders in children and adolescents with epilepsy: an observational study**
E. Zambrelli (Milan, IT)

P760 **Diagnosis accuracy of the portable monitor in the pediatric obstructive sleep apnea symptom**
N. Isaka (Tokyo, JP)

P761 **Sleep structure in children with intellectual giftidness**
A. Guignard-Perret (Lyon, FR)

P762 **Prevalence of metabolic syndrome in children with idiopathic narcolepsy**
A. Guyon (Lyon, FR)

P763 **Naps and sleep patterns in adolescents**
E. Sorensen (Bergen, NO)

P621 **Migraine and hypnic headache: an age-related sleep continuum?**
I. Luzeiro (Coimbra, PT)

P623 **Effects of mild cognitive impairment (MCI) on the assessment of fitness to drive in the elderly**
R. Popp (Regensburg, DE)

P624 **Sleep in nursing home patients: A cross-sectional study using actigraphic and informant-observed assessments of sleep disturbances**
K.M. Blytt (Bergen, NO)

P626 **Insomnia symptoms are prevalent and significantly associated with cognitive decline in the Cretan Aging Cohort**
M. Basta (Voutes-Heraklion, Crete, GR)

P627 **Sleep quality, physical activity and physical functioning in community dwelling elderly**
V. Angelino (Lisbon, PT)

P628 **Age-related changes in post-learning resting-state functional connectivity and sleep**
A. Mary (Brussels, BE)

P629 **Sleep disruption in adult subjects with Down syndrome**
S. Giménez Badia (Barcelona, ES)

P807 **Validity of sleep staging based on a reduced montage using 2 EOG channels**
G. Gruber (Vienna, AT)

Scientific Programme

P808 **Automatic detection of sleep episodes in long-term eeg recordings**
A. Malafeev (Zurich, CH)

P809 **Impact of genioglossus stimulation (Inspire® therapy) on the level of alertness of apneic patients**
P. Philip (Bordeaux, FR)

P810 **An investigation of the validity of the Sleep Condition Indicator in a young adult sample**
L. Beattie (Glasgow, UK)

P811 **Validation and psychometric properties of the 'Brugmann Fatigue Scale' (BFS): a new instrument fort the clinical assessment of perceived fatigue**
D. Neu (Brussels, BE)

P812 **From high school to sleep science: designing a newborn´s sleep monitor for consumers**
A. Matteucci (Bologna, IT)

P813 **An abridged version of the Functional Outcomes of Sleep Questionnaire (FOSQ-5): measurement properties in patients with obstructive sleep apnoea**
J.-E. Broman (Uppsala, SE)

P814 **A Swedish version of the Flinders Fatigue Scale: measurement properties in patients with insomnia disorder**
J.-E. Broman (Uppsala, SE)

P815 **Vascular stiffness determined from a nocturnal digital pulse wave signal - association with sleep, sleep disordered breathing and hypertension**
S. Svedmyr (Gothenburg, SE)

P816 **STOP Bang versus SASScore: prediction strategy in obstructive sleep apnea syndrome**
S. Mihaicuta (Timisoara, RO)

P817 **A new sensor for various respiratory events detection during sleep**
A. Sabil (Sainte Gemmes sur Loire, FR)

P903 **Is short sleep as critical as no physical exercise for overweight?**
M. Goerke (Magdeburg, DE)

P904 **An exploration into the role of modern environmental factors in the relationship between poor sleep and academic performance**
D. Dimitriou (London, UK)

P905 **Occupational exposure to organic solvents, excessive daytime sleepiness, and poor sleep quality**
A. Najafi (Tehran, IR)

P906 **Sleep related problems and academic performance in medical students**
P.M. Russo (Bologna, IT)

Scientific Programme

P907 **Prediction of pressions for autocpap treatment on moderate to severe obstructive sleep apnea**
J. Batista Correia (Viseu, PT)

P908 **Obstructive sleep apnea: a retrospective study of our healthcare unit**
J. Batista Correia (Viseu, PT)

P909 **Sleep complaints, sleep habits and their association with academic performance among medical students in Armenia**
L. Ghahramanyan (Yerevan, AM)

P910 **Examining the association between psychological need satisfaction and fatigue and subjective quality and quantity of sleep in Chronic Fatigue Syndrome: a daily diary study.**
R. Campbell (Ghent, BE)

P911 **The impact of alcohol consumption on slow wave sleep disorder symptom frequency and severity**
E. Maschauer (Edinburgh, UK)

P912 **Health education: two-dimensional interface development for Restless Legs Syndrome (or Willis-Ekbom disease) research**
E. Camargo (São Paulo, BR)

Track General, Opening/Closing Session, Lecture Hall B

19:00 - 19:30 Closing Session

19:00 - 19:10 **Best poster award - Supported by Löwenstein Medical**

19:10 - 19:15 **Farewell address by the president of the ESRS**

19:15 - 19:20 **Farewell address by president of local chair**
R. Amici (Bologna, IT)

19:20 - 19:30 **Outlook to ESRS 2018 by chair of local organising committee Basel**
C. Cajochen (Basel, CH)