

SCIENTIFIC PROGRAM

Wednesday, June 9, 2010

Schedule at a Glance

Wednesday, June 9, 2010

Poster Set-up	7:00am – 8:00am
Registration Open	7:30am – 5:00pm
Plenary Session	8:00am – 9:00am
Oral Presentations	9:00am – 10:00am
Exhibit Hall Open	10:00am – 2:00pm
Refreshment Break (Exhibit Hall)	10:00am – 10:15am
Clinical Workshop	10:15am – 12:15pm
Discussion Group	10:15am – 12:15pm
Oral Presentations	10:15am – 12:15pm
Symposia	10:15am – 12:15pm
Poster Viewing	10:15am – 12:15pm
Meet the Professors	12:30pm – 1:30pm
Lunch and Learn: A Pro/Con Debate	12:30pm – 1:30pm
Invited Lecturers	1:30pm – 2:30pm
Oral Presentations	1:30pm – 2:30pm
Refreshment Break	2:30pm – 2:45pm
Clinical Workshop	2:45pm – 4:45pm
Oral Presentations	2:45pm – 4:45pm
Symposium	2:45pm – 4:45pm

INDUSTRY SUPPORTED ACTIVITIES

Please see page 134 for information regarding industry supported activities at SLEEP 2010.

POSTER SET-UP

7:00am – 8:00am

Exhibit Hall C

Posters should be assembled for display during this time and should not be removed until 4:45pm.

PLENARY SESSION

See page 11 for more information about this plenary speaker.

1 07: New Adventures in Sleep Quality

8:00am – 9:00am

Ballrooms C1 & C2

Daniel Buysse, MD

Psychologist Level of Content: Intermediate

Objectives:

1. Describe the importance of sleep quality from patient and scientific perspectives.
2. Compare the strengths and limitations of self-report and objective measures of sleep.
3. Discuss the complex relationships between self-report and objective sleep measures.

ORAL PRESENTATIONS

9:00am – 10:00am

Authors selected for oral presentations are allotted a 10-minute time period to present their abstract, followed by a 5-minute time period for questions and answers. The four-digit abstract ID number corresponds to the *SLEEP* abstract supplement.

23: Insomnia: Cognitive Behavioral and Alternative Therapies

9:00am – 10:00am

Ballroom C3

Chair: Kenneth Lichstein, PhD

Psychologist Level of Content: Introductory

#0587 9:00am – 9:15am

LONG-TERM OUTCOMES FOLLOWING COGNITIVE-BEHAVIOR THERAPY USED SINGLY AND IN COMBINATION WITH MEDICATION FOR PERSISTENT INSOMNIA

Morin CM, Guay C, Guay B, Ivers H, Vallieres A, Beaulieu-Bonneau S, Savard J, Merette C

#0588 9:15am – 9:30am

ADHERENCE AND OUTCOME IN CBT FOR INSOMNIA AMONG PATIENTS WITH HIGH AND LOW DEPRESSION SCORES

Manber R, Siebern AT, Bernert R

#0589 9:30am – 9:45am

THE DURATION OF EFFECTS OF COGNITIVE BEHAVIORAL THERAPY FOR INSOMNIA IN PATIENTS WITH CHRONIC PAIN

Jungquist CR, Smith MT, O'Brien C, Pigeon WR, Matteson-Rusby S, Xia Y, Tra Y, Perlis ML

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#0590 9:45am – 10:00am

AN ALTERNATIVE APPROACH TO MANAGING CHRONIC INSOMNIA

Marshall M, Zang H, Jasko JG

Objective: Compare and contrast various behavioral and alternative therapies for the treatment of insomnia.

24: Diagnostic Evaluation of Obstructive Sleep Apnea

9:00am – 10:00am

Room 214ABC

Chair: Allan Pack, PhD, MBChB

Psychologist Level of Content: Advanced

Objective: Evaluate diagnostic methods for assessing obstructive sleep apnea.

#0350 9:00am – 9:15am

THE STOP-BANG MODEL FOR SCREENING OF OBSTRUCTIVE SLEEP APNEA (OSA): RELATIONSHIP TO POLYSOMNOGRAPHIC MEASUREMENTS OF THE APNEA/HYPOPNEA INDEX (AHI)

Farney RJ, Walker BS, Farney RM, Walker JM

#0351 9:15am – 9:30am

MALLAMPATI GRADE AND SNORING IN PREGNANCY

Murti M, Bullough AS, Chames M, Chervin RD, O'Brien LM

#0352 9:30am – 9:45am

THE PREVALENCE OF UNDIAGNOSED OBSTRUCTIVE SLEEP APNEA IN SURGICAL PATIENTS

Liao P, Singh M, Kobah S, Elsaid H, Shapiro C, Chung F

#0353 9:45am – 10:00am

CANDIDATE GENE ANALYSIS FOR OBSTRUCTIVE SLEEP APNEA

Patel SR, Goodloe R, Larkin EK, Gottlieb DJ, Li Y, Buxbaum S, Punjabi NM, Zee P, Zhu X, Redline S

25: Sleep Architecture, Sleep Quality and Mood

9:00am – 10:00am

Room 214D

Chair: Roseanne Armitage, PhD

Psychologist Level of Content: Intermediate

Objective: Examine the relationship between psychiatric disorders and sleep stages.

#0695 9:00am – 9:15am

LOW CORTICAL GABA LEVELS IN PTSD ARE MEDIATED BY POOR SLEEP QUALITY

Neylan TC, Mon A, Lenoci M, Metzler T, Meyerhoff DJ

#0696 9:15am – 9:30am

SELECTIVE SLOW WAVE DEPRIVATION AS A POSSIBLE ACUTE TREATMENT OF MAJOR DEPRESSIVE DISORDER

Landsness EC, Goldstein MR, Peterson MJ, Tononi G, Benca R

#0697 9:30am – 9:45am

SLOW WAVE SLEEP ENHANCEMENT AND POSITIVE MOOD IN DEPRESSIVES AND CONTROLS

Cheng P, Goldschmied J, Casement M, Liu P, Hoffmann RF, Armitage R, Deldin PJ

#0698 9:45am – 10:00am

FRONTAL DELTA EEG ACTIVITY DURING NREM SLEEP OF ADULTS WITH AUTISTIC SPECTRUM DISORDER

Rochette A, Limoges É, Chevrier É, Mottron L, Godbout R

26: Sleep and Circadian Modulation of Learning

9:00am – 10:00am

Room 207AB

Chair: Jeff Donlea

Psychologist Level of Content: Intermediate

Objective: Explain the relationship between sleep and learning.

#0096 9:00am – 9:15am

HIPPOCAMPAL-DEPENDENT LEARNING REQUIRES A FUNCTIONAL CIRCADIAN SYSTEM

Ruby NF, Fernandez F, Sapolsky R, Heller H

#0097 9:15am – 9:30am

MINIMAL QUANTA OF SLEEP REQUIRED FOR MEMORY CONSOLIDATION

Rolls A, Colas D, Adamantidis A, de Lechea L, Heller H

#0098 9:30am – 9:45am

GABA ANTAGONISTS DELIVERED DURING THE LIGHT PHASE, BUT NOT THE DARK PHASE, NORMALIZES LEARNING IN DOWN SYNDROME MICE

Colas D, Chuluun B, Garner C, Heller H

#0099 9:45am – 10:00am

A MICE MODEL OF PTSD: PHYSICAL AND PSYCHOLOGICAL STRESS AND SLEEP AND BEHAVIORAL CHANGES

Nishino S, Kotorii N, Ishimaru Y, Takahashi T, Matsumura M, Okuro M

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EXHIBIT HALL OPEN

10:00am – 2:00pm

Exhibit Halls C & D

Please see pages 142-143 for a complete list of exhibitors.

REFRESHMENT BREAK IN THE EXHIBIT HALL

10:00am – 10:15am

CLINICAL WORKSHOP

10:15am – 12:15pm

W 03: Actigraphy in the Clinic

10:15am – 12:15pm

Ballroom C2

Chair: Jennifer Martin, PhD

Faculty: Sonia Ancoli-Israel, PhD; Lisa Meltzer, PhD; James Wyatt, PhD

Psychologist Level of Content: Intermediate

Objectives:

1. Apply current recommendations for the clinical application of actigraphy.
2. Identify key considerations in the use of actigraphy for the assessment of sleep and circadian rhythm disorders in adult patients.
3. Explain how to modify the use of actigraphy for pediatric patient populations and older adult patient populations.

10:15am – 10:40am **General Introduction to Actigraphy for Sleep Assessment**

Jennifer Martin, PhD

10:40am – 11:05am **Actigraphy in the Assessment and Treatment of Circadian Rhythm Sleep Disorders**

James Wyatt, PhD

11:05am – 11:30am **Actigraphy in the Evaluation of Sleep Patterns and Sleep Disruptions of Children**

Lisa Meltzer, PhD

11:30am – 11:55am **Research Uses and Standards of Practice for Wrist Actigraphy in Older Adults**

Sonia Ancoli-Israel, PhD

11:55am – 12:15pm **Question and Answer Session**

Faculty

DISCUSSION GROUP

10:15am – 12:15pm

D 06: Clinical Sleep Research Highlights and Future Directions of the NIH

10:15am – 12:15pm

Room 207AB

Chair: Daniel Lewin, PhD

Faculty: Rosemarie Filart, MD, MPH; Mirosław Machiewicz, PhD; Uma Reddy, MD, MPH; Barbara Sorkin, PhD; Catherine Stoney, PhD; Michael Twery, PhD

Psychologist Level of Content: Introductory

Objectives:

1. Review trends and future directions in clinical sleep and circadian research and increase attendees understanding of the breadth and variety of opportunities across the NIH.
2. Describe recent NIH initiatives, ARRA funded clinical research activities, peer review enhancements, funding mechanisms and programmatic differences between specific NIH Institutes.
3. Develop communication between investigators and NIH program officials that will increase the likelihood of future dialogue and potentially improve the quality of applications submitted to the NIH.
4. Discuss the role of the sleep and circadian research communities in the overall NIH mission to improve health with emphasis on directing research hypotheses toward the priority mission areas of individual NIH funding offices.

ORAL PRESENTATIONS

10:15am – 12:15pm

Authors selected for oral presentations are allotted a 10-minute time period to present their abstract, followed by a 5-minute time period for questions and answers. The four-digit abstract ID number corresponds to the *SLEEP* abstract supplement.

O 27: Epidemiology, Ontogeny and Pathogenesis of Pediatric Sleep Disorders

10:15am – 12:15pm

Room 214ABC

Chair: Gerald Rosen, MD

Psychologist Level of Content: Intermediate

Objective: Summarize normal and abnormal pediatric sleep using a variety of research and clinical methods.

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- #0932** 10:15am – 10:30am
PRESCHOOLER BEDTIME ROUTINES IN A DISADVANTAGED POPULATION: A LONGITUDINAL ANALYSIS OF BEHAVIORAL, COGNITIVE, AND HEALTH OUTCOMES
Hale L, Berger L, LeBourgeois M, Brooks-Gunn J
- #0933** 10:30am – 10:45am
OBJECTIVELY MEASURED AND SELF-REPORTED SLEEP: SENTINEL MARKERS TO RELATIONSHIP SATISFACTION AMONG POSTPARTUM COUPLES
Insana SP, Costello C, Montgomery-Downs HE
- #0934** 10:45am – 11:00am
CHANGES IN SLEEP TIMING, DURATION, AND QUALITY AS CHILDREN TRANSITION FROM PRESCHOOL TO KINDERGARTEN
Cairns A, Porter MN, Harsh J
- #0935** 11:00am – 11:15am
ADOLESCENT SLOW-WAVE SLEEP DECREASES WITH AGE RATHER THAN PUBERTY IN A LONGITUDINAL SAMPLE
Holm SM, Forbes E, Ryan N, Trubnick LJ, Jakubcak JL, Dahl RE
- #0936** 11:15am – 11:30am
MEASURING SLEEP LATENCY IN PEDIATRIC INSOMNIA TRIALS: ROLE OF ACTIGRAPHY IN RELATION TO POLYSOMNOGRAPHY
Malow BA, Adkins K, Goldman SE, Surdyka K, Wang L, McGrew SG, Howard P, Vigil KC, Wofford D
- #0937** 11:30am – 11:45am
RESIDENT BONE MARROW STEM CELLS ARE RECRUITED TO PERIPHERAL CIRCULATION IN CHILDREN WITH OSA: RELEVANCE TO ENDOTHELIAL FUNCTION
Gozal LK, Bhattacharjee R, Kim J, Clair H, Gozal D
- #0938** 11:45am – 12:00pm
SNORING IS NOT ASSOCIATED WITH ADVERSE EFFECTS ON BLOOD PRESSURE, ARTERIAL STRUCTURE OR FUNCTION IN 8 YEAR OLD CHILDREN: THE CHILDHOOD ASTHMA PREVENTION STUDY (CAPS)
Marshall NS, Ayer JG, Toelle BG, Harmer JA, Phillips CL, Grunstein RR, Celermajer DS, Marks GB
- #0939** 12:00pm – 12:15pm
DEVELOPMENT OF THE PEDIATRIC RESTLESS LEGS SYNDROME SEVERITY SCALE (P-RLS-SS)©: A PATIENT-REPORTED OUTCOME MEASURE OF PEDIATRIC RLS SYMPTOMS AND IMPACT
Arbuckle RA, Abetz LA, Durmer JS, Ivanenko A, Owens JA, Croenlein J, Bolton K, Allen RP, Walters AS, Picchiatti D

SYMPOSIA

10:15am – 12:15pm

S 11: Sleep Homeostasis: Current Advances and Future Directions

10:15am – 12:15pm

Ballroom 214D

Chair: Marcos Frank, PhD

Faculty: Paul Franken, PhD; Paul Shaw, PhD; Vladyslav Vyazovskiy, PhD; Raphaelle Winsky-Sommerer, PhD

Psychologist Level of Content: Advanced

Objectives:

1. Discuss new findings based on reverse and forward genetics in vertebrate and invertebrate species.
2. Describe recently described GABAergic circuits that contribute to sleep homeostasis.
3. Describe recently described network events in the cerebral cortex that reflect sleep need and contribute to homeostasis.

10:15am – 10:20am **Introductory Remarks**

Marcos Frank, PhD

10:20am – 10:45am **Genetic Dissection of Sleep Homeostasis in *Drosophila***

Paul Shaw, PhD

10:45am – 11:15am **The Contribution of Stress and Time-of-Day to the Molecular and EEG Correlates of Sleep Homeostasis**

Paul Franken, PhD

11:15am – 11:45am **Cortical Neuronal Activity and Sleep Homeostasis**

Vladyslav Vyazovskiy, PhD

11:45am – 12:15pm **The Importance of GABA-A Receptors' Heterogeneity in Mechanisms Underlying Sleep Regulation**

Raphaelle Winsky-Sommerer, PhD

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S 12: Metabolic and Circadian Hormones in Disrupted Sleep and Sleep Apnea – Sponsored by the World Sleep Federation
10:15am – 12:15pm
Ballroom C3

Co-Chairs: Peter Liu, MBBS, PhD; and Shantha Rajaratnam, PhD
Faculty: Frank Scheer, PhD; and Johannes Veldhuis, MD

Psychologist Level of Content: Advanced

Objectives:

1. Discuss the complex bidirectional relationships among metabolic hormones and circadian rhythms.
2. Explain how dysregulation of these hormones has major metabolic consequences that can lead to diabetes and obesity.
3. Describe how disrupted or desynchronised sleep and circadian rhythm changes lead to changes in metabolic hormones.
4. State how circadian rhythm re-synchronization may be achieved therapeutically using the circadian hormone melatonin.

10:15am – 10:45am **The Physiology of Endocrine Axes, Growth Hormone, Sleep and Metabolism**
Johannes Veldhuis, MD

10:45am – 11:15am **Androgens and Sleep: Bidirectional Effects and Influence on Metabolism**
Peter Liu, MBBS, PhD

11:15am – 11:45am **Cardiovascular and Endocrine Control by Circadian System**
Frank Scheer, PhD

11:45am – 12:15pm **Melatonin for Sleep and Circadian Disturbance**
Shantha Rajaratnam, PhD

POSTER VIEWING

10:15am – 12:15pm

Exhibit Hall C

Please see pages 112-130 for a complete listing of the posters displayed during this session.

LATE-BREAKING ABSTRACTS

12:15pm – 1:30pm

Room 214D

Chair: Michael Sateia, MD

Authors selected for the late-breaking abstract session are allotted a 10-minute time period to present their abstract, followed by a 5-minute time period for questions and answers. The late-breaking abstracts presented during this session are on pages 131-133.

CME and CE for psychologists or nurse practitioners are not provided for this session.

LBA 1 12:15pm – 12:30pm
Genetic Modeling of Restless Legs Syndrome in Drosophila
Freeman A, Rye DB, Sanyal S

LBA 2 12:30pm – 12:45pm
Per2 Genotype Impacts Reward-related Brain Function Associated with Circadian Characteristics in Adolescents
Forbes EE, Phillips ML, Ferrell RE, Nimgaonkar VL, Mansour H, Sciarillo SR, Dahl RE

LBA 3 12:45pm – 1:00pm
The Effectiveness of a 34h Restart Break to Sustain Performance across Two Consecutive 5-Day Work Periods Depends on the Circadian Timing of the Work Shifts
Van Dongen H, Vila BJ, Belenky G

LBA 4 1:00pm – 1:15pm
Dose Effects of MK-4305, A Dual Orexin Receptor Antagonist for Insomnia, in Healthy Male Subjects
Kennedy WP, Lewis N, Calder N, Li X, Yee K, Perlstein I, Wilbraham D, Murphy GM

LBA 5 1:15pm – 1:30pm
Treatment of Obstructive Sleep Apnoea Reduces Post-Prandial Lipidemia: Evidence from a Randomised, Placebo Controlled Trial of Continuous Positive Airway Pressure
Yee BJ, Phillips CL, Marshall NS, Liu PY, Sullivan DR, Grunstein RR

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MEET THE PROFESSORS

12:30pm – 1:30pm

Pre-registration is required.

CE credits for psychologists are not provided for these sessions.

M 17: How to Improve Compliance with CPAP

Room 210A

Terri Weaver, PhD, RN

M 18: Monitoring Sleep with Portable Devices: Are We There Yet?

Room 209

Patrick Strollo Jr., MD

M 19: Sleep Dysfunction in Patients with Cancer

Room 213B

Sonia Ancoli-Israel, PhD

M 20: Behavioral Treatment of Insomnia

Room 210B

Michael Perlis, PhD

M 21: Sleep and Mood Disorders

Room 212A

Roseanne Armitage, PhD

M 22: Sleepiness: Impact on Motor Vehicle Crash Risk

Room 211

Allan Pack, PhD, MBChB

M 23: Electronic Patient Portals in Sleep Medicine

Room 213A

Barry Krakow, MD

M 24: Treating Insomnia and Nightmares in PTSD

Room 212B

Sean Drummond, PhD

LUNCH AND LEARN: A PRO/CON DEBATE

12:30pm – 1:30pm

Pre-registration is required.

CE credits for psychologists are not provided for this session.

L 03: Sleep vs. Circadian Effects on Learning and Memory

Room 205

Faculty: Norman Ruby, PhD; and Robert Stickgold, PhD

Objectives:

1. Review the types of learning and memory enhanced by sleep.
2. Discuss how different stages of sleep contribute to sleep dependent learning and memory.
3. Understand the separate contributions of sleep and circadian effects on learning and memory.
4. Provide new insights into circadian contributions to learning and memory.



Sleep
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SRS SECTION MEETING

12:30pm – 1:30pm

This meeting is open to all SRS members interested in SRS Membership Sections.

Circadian Rhythms Research Section Meeting

Room 202AB

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INVITED LECTURERS

1:30pm – 2:30pm

See pages 13 and 14 for more information about these invited lecturers.

1 08: Brain Structure and Function in Sleep Pathophysiology

1:30pm – 2:30pm

Ballroom C1

Ronald Harper, PhD

Psychologist Level of Content: Advanced

Objectives:

1. Outline the brain structures altered by sleep related breathing disorders during sleep.
2. Identify the potential consequences of altered brain structure from sleep related breathing disorders or cardiovascular, cognitive and affective systems.
3. Discuss potential neural-mediated interventions for breathing pathology.

1 09: REM Sleep Behavior Disorder as a Neurodegenerative Disorder

1:30pm – 2:30pm

Ballroom C3

Jacques Montplaisir, MD, PhD

Psychologist Level of Content: Advanced

Objectives:

1. Explain how to assess patients with REM Behavior Disorder (RBD).
2. Explain the neural basis of RBD.
3. Discuss how to identify markers of neurodegeneration in RBD.

ORAL PRESENTATIONS

1:30pm – 2:30pm

Authors selected for oral presentations are allotted a 10-minute time period to present their abstract, followed by a 5-minute time period for questions and answers. The four-digit abstract ID number corresponds to the *SLEEP* abstract supplement.

28: Insomnia: Advances in Pharmacotherapy

1:30pm – 2:30pm

Ballroom C2

Chair: James Walsh, PhD

Psychologist Level of Content: Intermediate

Objective: Compare and contrast various pharmacological treatments of insomnia.

#0591 1:30pm – 1:45pm

EFFICACY AND TOLERABILITY OF THE DUAL OREXIN RECEPTOR ANTAGONIST MK-4305 IN PATIENTS WITH PRIMARY INSOMNIA: RANDOMIZED, CONTROLLED, ADAPTIVE CROSSOVER POLYSOMNOGRAPHY STUDY

Herring WJ, Budd KS, Hutzelmann J, Snyder E, Snively D, Liu K, Lines C, Michelson D, Roth T

#0592 1:45pm – 2:00pm

TWELVE MONTHS OF NIGHTLY ZOLPIDEM DOES NOT ENHANCE THE LIKELIHOOD OF REBOUND INSOMNIA: A PROSPECTIVE PLACEBO CONTROLLED STUDY

Randall S, Roehrs T, Harris E, Maan R, Roth T

#0593 2:00pm – 2:15pm

TWELVE MONTHS OF NIGHTLY ZOLPIDEM DOES NOT LEAD TO DOSE ESCALATION: A PROSPECTIVE PLACEBO CONTROLLED STUDY

Roehrs T, Randall S, Harris E, Maan R, Roth T

#0594 2:15pm – 2:30pm

USE OF SLEEP AIDES DURING PREGNANCY

Sesi VK, Bullough AS, Chames M, Chervin R, O'Brien LM

29: Sleep Regulation and Plasticity

1:30pm – 2:30pm

Room 214ABC

Chair: Ronald Szymusiak, PhD

Psychologist Level of Content: Advanced

Objective: Analyze the role of neurotransmitters and synaptic plasticity in the regulation of sleep.

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#0148 1:30pm – 1:45pm

PONTINE GLUTAMATERGIC CIRCUIT CONTROLS RAPID-EYE-MOVEMENT SLEEP

Krenzer M, Anaclet C, Lu J

#0149 1:45pm – 2:00pm

TIME COURSE OF CHANGES IN ADENOSINE, NITRIC OXIDE (NO) AND INDUCIBLE NO SYNTHASE (iNOS) DURING PROLONGED SLEEP DEPRIVATION IN THE BASAL FOREBRAIN AND CORTEX

Kalinchuk A, McCarley RW, Porkka-Heiskanen T, Basheer R

#0178 2:00pm – 2:15pm

INCREASED DOPAMINE SIGNALING DELAYS FUNCTIONAL SENESCENCE IN BEHAVIORAL AND STRUCTURAL PLASTICITY

Donlea JM, Gottschalk L, Shaw P

#0179 2:15pm – 2:30pm

EARLY LIFE REM SLEEP DISTURBANCE AFFECTS HIPPOCAMPAL SYNAPTIC PLASTICITY IN YOUNG ADULT RATS

Shaffery JP, Austin M, Armitage R, Roffwarg HP

30: Health Care Services for Persons with Sleep Disorders

1:30pm – 2:30pm

Room 207AB

Chair: Lee Brown, MD

Psychologist Level of Content: Introductory

Objective: Evaluate various models of health care for patients with sleep disorders.

#1091 1:30pm – 1:45pm

PERCEIVED GAPS IN MULTIDISCIPLINARY TEAM MANAGEMENT OF SLEEP DISORDERS: A MIXED-METHODS APPROACH

Dupuis M, Cytryn KN, Castriotta RJ, Landrigan CP, Malhotra A, Murray S

#1092 1:45pm – 2:00pm

CAN A ONE-TIME SLEEP SPECIALTY CONSULTATION ENHANCE PROVIDERS' ATTENTION TO SLEEP PROBLEMS IN PRIMARY CARE?

Zervakis JB, Ulmer C, Edinger JD

#1093 2:00pm – 2:15pm

"SPONTANEOUS KEY WORDS" (SKY) ENHANCES IDENTIFICATION OF OBSTRUCTIVE SLEEP APNEA PATIENTS BY AGE AND GENDER GROUPS DURING ENCOUNTERS WITH PHYSICIANS

Greenberg-Dotan S, Reuveni H, Tal A, Oksenberg A, Tarasiuk A

#1094 2:15pm – 2:30pm

PATIENT SATISFACTION: A COMPARISON BETWEEN VIDEOCONFERENCE AND IN-PERSON PATIENT-PHYSICIAN INTERACTIONS

Parikh RA, Zallek SN, Wang H, TouVelle MN

31: Sleep in the Real World

1:30pm – 2:30pm

Room 214D

Chair: Tracy Rupp, PhD

Psychologist Level of Content: Intermediate

Objective: Review data gathered outside of the sleep lab that is relevant to the sleep patterns of patients.

#0212 1:30pm – 1:45pm

DISTURBED SLEEP AND RISK BEHAVIOR IN LOW-INCOME MINORITY TEENS

Umlauf MG, Bolland JM, Lian BE

#0213 1:45pm – 2:00pm

PREDICTING MATERNAL ADAPTATION TO INFANT SLEEP: AN ECOLOGICAL PERSPECTIVE

Teti DM

#0322 2:00pm – 2:15pm

EXTENDING TIME IN BED IN SHORT SLEEPERS: EFFECTS ON OBJECTIVE SLEEP PARAMETERS MEASURED IN THE HOME

Drake C, Gumenyuk V, Jefferson C, Kick A, Coaker M, Roth T

#0214 2:15pm – 2:30pm

OBJECTIVE IN-HOME WEEKDAY VS. WEEKEND SLEEP IN A SAMPLE OF THE US POPULATION

Fabregas SE, Shambroom J

REFRESHMENT BREAK

2:30pm – 2:45pm

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CLINICAL WORKSHOP

2:45pm – 4:45pm

W 04: Treatment of Comorbid Insomnia in Children and Adults

2:45pm – 4:45pm

Ballroom C2

Chair: Valerie Crabtree, PhD

Faculty: Allison Harvey, PhD; Anna Ivanenko, MD, PhD; Wilfred Pigeon, PhD; Michael Smith, PhD

Psychologist Level of Content: Intermediate

Objectives:

1. Identify effective treatment of insomnia comorbid with chronic pain in children and adults.
2. Identify effective treatment of insomnia comorbid with mood disorders in children and adults.
3. Identify effective treatment of insomnia comorbid with trauma in adults.

2:45pm – 3:10pm **Treatment of Insomnia Comorbid with Medical Disorders and Chronic Pain in Children**
Valerie Crabtree, PhD

3:10pm – 3:30pm **Treatment of Insomnia Comorbid with Mood and Anxiety Disorders in Children**
Anna Ivanenko, MD, PhD

3:30pm – 3:50pm **Treatment of Insomnia Comorbid with Trauma in Adults**
Wilfred Pigeon, PhD

3:50pm – 4:10pm **Treatment of Insomnia Comorbid with Mood Disorders in Adults**
Allison Harvey, PhD

4:10pm – 4:30pm **Treatment of Insomnia Comorbid with Chronic Pain in Adults**
Michael Smith, PhD

4:30pm – 4:45pm **Question and Answer Session**
Faculty

ORAL PRESENTATIONS

2:45pm – 4:45pm

Authors selected for oral presentations are allotted a 10-minute time period to present their abstract, followed by a 5-minute time period for questions and answers. The four-digit abstract ID number corresponds to the *SLEEP* abstract supplement.

32: Evaluation and Treatment of Obstructive Sleep Apnea

2:45pm – 4:45pm

Ballroom C1

Chair: Aaron Sher, MD

Psychologist Level of Content: Advanced

Objective: Compare and contrast various methods for assessing and treating obstructive sleep apnea.

#0354 2:45pm – 3:00pm
COMPARISON OF UVULOPALATOPHARYNGOPLASTY AND MAXILLOMANDIBULAR ADVANCEMENT FOR THE TREATMENT OF OBSTRUCTIVE SLEEP APNEA
Boyd SB, Walters A, Song Y, Wang L, Malow BA

#0355 3:00pm – 3:15pm
THE SEVERITY OF PREOPERATIVE OSA IS THE MAJOR FACTOR PREDICTING THE POSTOPERATIVE INCREASE IN APNEA-HYPOPNEA INDEX
Chung F, Liao P, Fazel H, Amirshahi Shirazi B, Elsaid H, Sun Y, Wang F, Shapiro C, Islam S

#0356 3:15pm – 3:30pm
THREE-DIMENSIONAL COMPUTED TOMOGRAPHIC EVALUATION OF AIRWAY AND CRANIOFACIAL CHANGES IN ADULT PATIENT WITH OBSTRUCTIVE SLEEP APNEA UNDERWENT SEGMENTAL MAXILLO-MANDIBULAR ROTATIONAL ADVANCEMENT
Lin C, Liao Y, Chen N, Chen Y

#0357 3:30pm – 3:45pm
PREDICTORS OF EXECUTIVE FUNCTIONS IN INDIVIDUALS WITH OBSTRUCTIVE SLEEP APNEA TREATED WITH CONTINUOUS POSITIVE AIRWAY PRESSURE
Lau E, Eskes GA, Morrison DL, Rajda M, Spurr KF

#0358 3:45pm – 4:00pm
A NOVEL APPROACH USING PHRENIC NERVE STIMULATION TO TREAT CENTRAL SLEEP APNEA: FIRST-IN-MAN EXPERIENCE
Ponikowski P, Witkowski T, Khayat R, Michalkiewicz D, Bart BA, Hasan A, Abraham WT

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#0359 4:00pm – 4:15pm

PREDICTING CPAP COMPLIANCE USING THE BEHAVIORAL INHIBITION SYSTEM (BIS) AND BEHAVIORAL ACTIVATION SYSTEM (BAS) SCALES

Moran A, Everhart DE, Davis CE, Wuensch KL, Lee DO, Demaree HA

#0360 4:15pm – 4:30pm

AMYLASE mRNA IS ELEVATED IN SALIVA OF SUBJECTS WITH OBSTRUCTIVE SLEEP APNEA

Thimgan M, Gottschalk L, McLeland JS, Toedebusch C, Duntley S, Shaw P

#0361 4:30pm – 4:45pm

GENDER DIFFERENCES IN DISEASE SEVERITY AND QUALITY OF LIFE AMONG PARTICIPANTS AT HIGH RISK FOR MODERATE TO SEVERE OBSTRUCTIVE SLEEP APNEA ENROLLED IN THE HOMEPAP STUDY

Zee P, Baron KG, Lu BS, Auckley D, Benca R, Foldvary-Schaefer N, Iber C, Kapur VK, Redline S, Rosen CL

33: Circadian Rhythm Disturbances: Clinical Impact and Treatment Challenges

2:45pm – 4:45pm

Room 214ABC

Chair: Kenneth Wright Jr., PhD

Psychologist Level of Content: Intermediate

Objective: Describe the effects of circadian rhythm disturbances and review various methods of treatment.

#0542 2:45pm – 3:00pm

CLINICAL PRESENTATION OF SHIFT WORKERS TO A SLEEP CLINIC

Karumanchi P, Hayes AL, Przepyszny KA, Patel SR

#0543 3:00pm – 3:15pm

ASSOCIATIONS BETWEEN CIRCADIAN CHRONOTYPE, BMI AND DIET

Baron KG, Reid KJ, Lu BS, St. James T, Fondel B, Conner MH, Zee P

#0544 3:15pm – 3:30pm

CIRCADIAN MISALIGNMENT IS ASSOCIATED WITH DEPRESSIVE SYMPTOMATOLOGY

Rahman SA, Brown TJ, Casper RF, Shapiro C

#0545 3:30pm – 3:45pm

IMPAIRMENT OF NEUROPHYSIOLOGICAL MARKERS OF ATTENTION CAPTURED IN SHIFT WORK DISORDER PATIENTS: EFFECTS OF ARMODAFINIL

Gumenyuk V, Roth T, Spear L, Jefferson C, Kick A, Drake C

#0546 3:45pm – 4:00pm

ADJACENT SOUTHEASTERN VIRGINIA CITIES WITH DIS-SIMILAR HIGH SCHOOL START TIMES MANIFEST DIFFERENT TEENAGE CAR CRASH RATES

Vorona RD, Zhao Y, Szklo-Coxe M, Wu A, Dubik M, Ware J

#0547 4:00pm – 4:15pm

LIGHT EXPOSURE IN ADOLESCENTS WITH DELAYED SLEEP PHASE DISORDER

Auger R, Burgess HJ, Dierkhising RA, Sharma RG, Slocumb NL

#0548 4:15pm – 4:30pm

A PRACTICAL INTERVENTION BASED ON LIGHT/DARK EXPOSURE FOR POLICE OFFICERS WORKING ROTATING SHIFTS

Boudreau P, Boivin DB, Tremblay G

#0549 4:30pm – 4:45pm

EVERYDAY LAMPS INFLUENCE SUBSEQUENT SLEEP

Kunz D, Rodenbeck A, Stoll C

34: Molecular/Cell Biology of Sleep

2:45pm – 4:45pm

Room 214D

Chair: H. Craig Heller, PhD

Psychologist Level of Content: Advanced

Objective: Inventory the effects pharmacological agents on sleep, the mediation of vascular effects of obstructive sleep apnea and the long term effects of sleep deprivation.

#0022 2:45pm – 3:00pm

REM SLEEP IS DIFFERENTIALLY MODULATED BY OREXIN TYPE 2 RECEPTORS IN LATERAL PONTINE TEGMENTUM (LPT) AND VENTRAL SUBCOERULEUS (vSubC)

Chen L, Bolortuya Y, Leonard M, Perry R, Winston S, McKenna JT, Brown RE, McCarley RW

SCIENTIFIC PROGRAM

Wednesday, June 9, 2010

- #0021** 3:00pm – 3:15pm
LECTIN-LIKE RECEPTOR (LOX-1) MEDIATES VASCULAR DYSFUNCTION IN OBSTRUCTIVE SLEEP APNEA
Akinnusi F, Anderson P, Andersen VL, El Solh A
- #0001** 3:15pm – 3:30pm
SLEEP PROMOTING EFFECTS OF MK-4305 - A NOVEL DUAL OREXIN RECEPTOR ANTAGONIST
Winrow CJ, Coleman PJ, Cox CD, Doran SM, Breslin MJ, Schreier JD, Gotter AL, Cui D, Tannenbaum PL, Renger JJ
- #0002** 3:30pm – 3:45pm
DIFFERENTIAL EFFECTS OF GABAB RECEPTOR SUBTYPES, GHB, AND BACLOFEN ON EEG ACTIVITY AND SLEEP REGULATION
Vienne J, Bettler B, Franken P, Tafti M
- #0011** 3:45pm – 4:00pm
MARKED INCREASE IN SLEEP DURATION AND QUALITY IN PATIENTS WITH RHEUMATOID ARTHRITIS BY ETANERCEPT, A TUMOR NECROSIS FACTOR-ALPHA ANTAGONIST
Blau A, Dziurla R, Detert J, Schoebel C, Buttgereit F, Fietze I
- #0024** 4:00pm – 4:15pm
CHRONIC RESTRICTION OF SLEEP PRODUCES PERSISTENT METABOLIC ABNORMALITIES IN RATS
Everson CA, Szabo A
- #0025** 4:15pm – 4:30pm
GENE EXPRESSION PATTERNS FOLLOWING ACUTE INTERMITTENT HYPOXIA AND SLEEP FRAGMENTATION IN MOUSE VISCERAL FAT
Gozal D, Gharib SA, Abdelkarim A, Khalyfa A
- #0132** 4:30pm – 4:45pm
COMPLEMENTARY AND SYNERGISTIC CONTROL OF WAKEFULNESS BY HISTAMINE AND OREXINS, DEMONSTRATED USING A DOUBLE KNOCKOUT MOUSE MODEL
Anaclet C, Ouk K, Guidon G, Buda C, Sastre J, Ohtsu H, Yanagisawa M, Franco P, Lin J

- 35: Sleep in Medical Disorders**
2:45pm – 4:45pm
Ballroom C3
Chair: Dennis Auckley, MD

Psychologist Level of Content: Intermediate

Objective: Evaluate sleep disturbance in patients with medical disorders.

- #0858** 2:45pm – 3:00pm
SELF-REPORTED SLEEP SYMPTOMS PREDICT THE DEVELOPMENT OF THE METABOLIC SYNDROME IN COMMUNITY ADULTS
Troxel WM, Buysse DJ, Matthews KA, Kip KE, Hall MH, Strollo PJ, Drumheller OJ, Reis SE
- #1112** 3:00pm – 3:15pm
CORRELATION BETWEEN BODY MASS INDEX, SLEEP DURATION AND SLEEP QUALITY: AN EPIDEMIOLOGICAL STUDY
Moraes W, de Mello M, Bittencourt LA, Santos-Silva R, Artur U, Tufik S
- #0859** 3:15pm – 3:30pm
SHORT SLEEP DURATION IS INDEPENDENTLY ASSOCIATED WITH OBESITY IN WITH TYPE 2 DIABETES
Tahrani AA, Ali A, Begum S, Mughal S, Jose B, Thomas G, Banerjee D, Stevens MJ, Barnett AH, Taheri S
- #0860** 3:30pm – 3:45pm
PREVALENCE OF INADEQUATE SLEEP IN OVERWEIGHT ADULTS INTERESTED IN WEIGHT LOSS
Kuo T, Gardner C, Dewell A
- #0861** 3:45pm – 4:00pm
ELECTROCARDIOGRAM-BASED SLEEP SPECTROGRAM MEASURES OF SLEEP STABILITY AND GLUCOSE DISPOSAL IN SLEEP DISORDERED BREATHING
Pogach M, Punjabi NM, Thomas NA, Thomas RJ
- #0862** 4:00pm – 4:15pm
NOCTURNAL HYPOXEMIA IS ASSOCIATED WITH GLUCOSE INTOLERANCE IN CHILDREN WITH CYSTIC FIBROSIS
Chan JS, Suratwala D, Kelly A, Meltzer LJ, Gallagher PR, Traylor J, Fiorino E, Rubinstein R, Marcus CL
- #0863** 4:15pm – 4:30pm
SLEEP, KIDNEY FUNCTION AND GLUCOSE METABOLISM AMONG PERSONS WITH CHRONIC KIDNEY DISEASE: THE CHRONIC RENAL INSUFFICIENCY COHORT STUDY
Knutson KL, Lash J, Herdegen J, Thorton J, Rahman M, Turek N, Snidal M, Van Cauter E

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Wednesday, June 9, 2010

#0864 4:30pm – 4:45pm

**CLINICAL SLEEP VARIABLES IN PATIENTS WITH PAINFUL
DIABETIC PERIPHERAL NEUROPATHY**

Eriksson M, Coppini D, Gouni R, Kerr D, Knight R, Boyle J

3:47pm – 4:16pm

**Plasticity of Neuron-glia Metabolic Coupling
during the Sleep/Wake Cycle**

Pierre Magistretti, MD, PhD

4:16pm – 4:45pm

**Dynamic Changes in Neuronal Metabolism
with Sleep and Wake**

Allan Pack, PhD, MBChB

SYMPOSIUM

2:45pm – 4:45pm

S 13: Brain Energy Budget: Functional Implications for Sleep

2:45pm – 4:45pm

Room 207AB

Chair: Robert McCarley, MD

Faculty: Radhika Basheer, PhD; Chiara Cirelli, MD, PhD; Pierre Magistretti, MD, PhD; Allan Pack, PhD, MBChB

Psychologist Level of Content: Advanced

Objectives:

1. Discuss recent advances made towards the understanding of the brain energy changes associated with sleep-wake state using animal model systems.
2. Analyze the relationship between neurons, glia and high energy molecule ATP in brain energy maintenance.
3. Review the functional implications of sleep as a restorative behavior.

2:45pm – 2:49pm

Introduction

Robert McCarley, MD

2:49pm – 3:18pm

**Sleep Dependent ATP Surge and Functional
Implications for Sleep through AMPK
Regulation**

Radhika Basheer, PhD

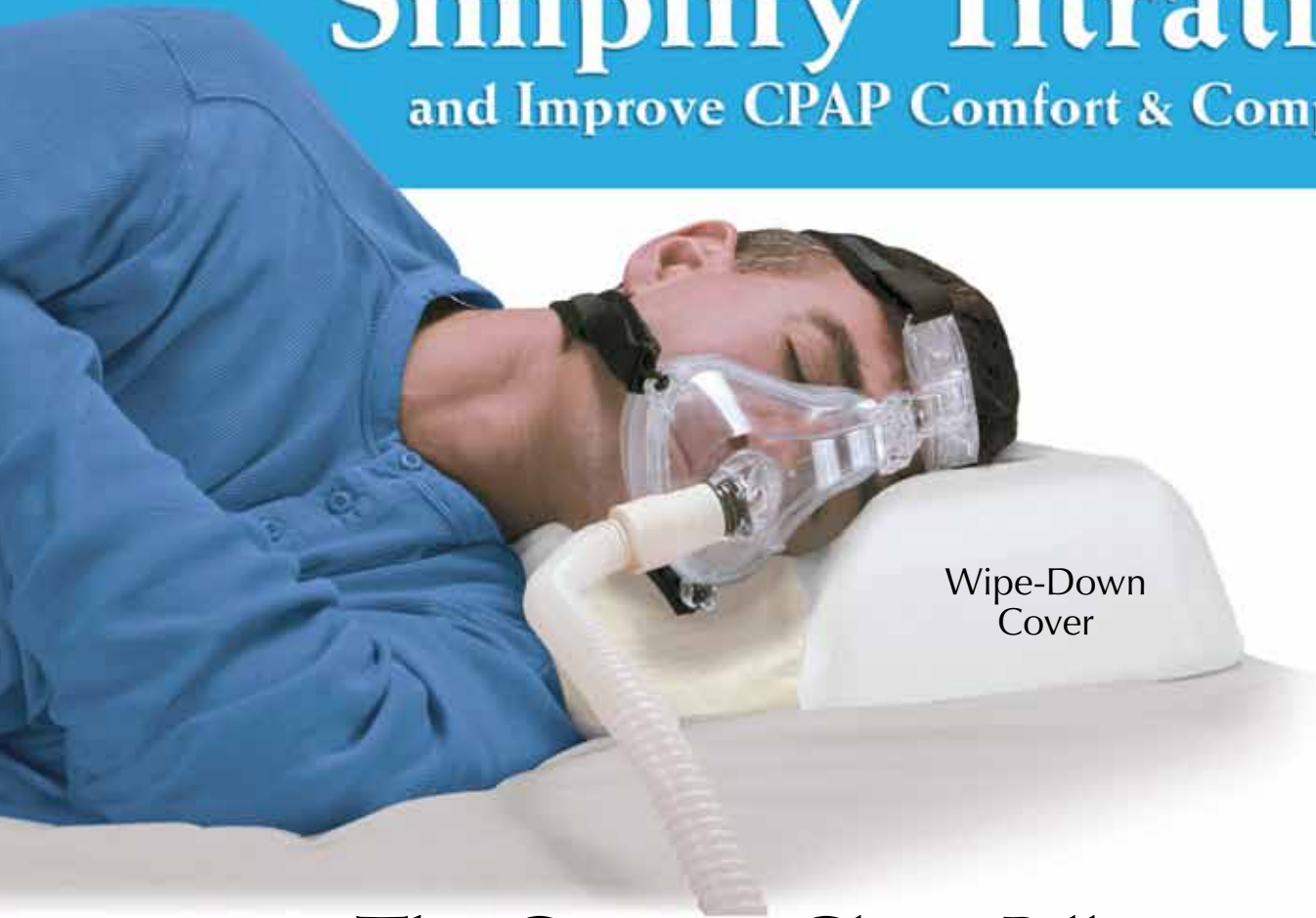
3:18pm – 3:47pm

**Changes in Oxidative Phosphorylation and
Glycolysis as a Function of Sleep and
Wakefulness**

Chiara Cirelli, MD, PhD

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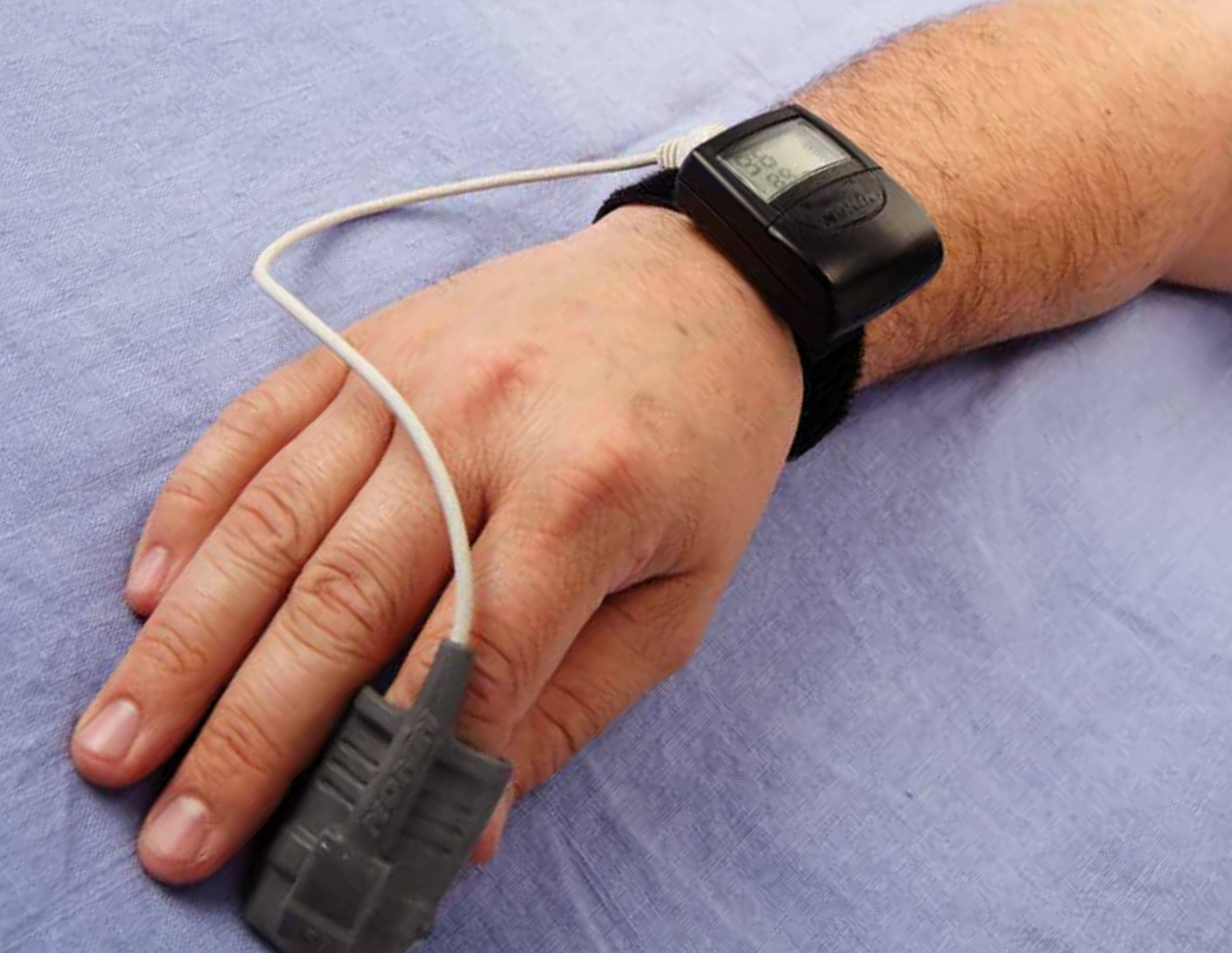
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SCIENTIFIC PROGRAM

Wednesday, June 9, 2010

POSTER VIEWING

10:15am – 12:15pm

Authors with odd-numbered poster board ID numbers will be present at their posters from 10:15am – 11:15am.

Authors with even-numbered poster board ID numbers will be present at their posters from 11:15am – 12:15pm.

The four-digit abstract ID number coordinates to the *SLEEP* abstract supplement. Please refer to the poster board ID number to locate a specific abstract within the poster hall.

P 31: Neurobiology

#0134 Poster Board 1

CIRCADIAN DISTRIBUTIONS OF WAKE, NREM AND REM SLEEP OF DEC2-P385R TG MICE

Okuro M, He Y, Fu Y, Nishino S

#0135 Poster Board 2

GLYCINE DECREASES CORE BODY TEMPERATURE AND INCREASES CUTANEOUS BLOOD FLOW VIA NMDA RECEPTOR LOCATED IN THE RAT SUPRACHIASMATIC NUCLEUS

Kawai N, Bannai M, Takahashi M

#0136 Poster Board 3

GABAergic BRAINSTEM PROJECTIONS TO THE DORSAL RAPHE NUCLEUS IN GAD67-GFP KNOCK-IN MICE: IMPLICATIONS FOR REM SLEEP REGULATION

McKenna JT, Abu SM, Winston S, Yanagawa Y, McCarley RW, Brown RE

#0137 Poster Board 4

GAD67-GFP KNOCK-IN MICE AS A MODEL SYSTEM FOR INVESTIGATION OF GABAergic NEURONS INVOLVED IN BEHAVIORAL STATE CONTROL

McKenna JT, Rigby MS, Chen L, Winston S, Yanagawa Y, McCarley RW, Brown RE

#0138 Poster Board 5

CHANGES IN SLEEP MAINTENANCE QUANTIFIED USING SURVIVAL ANALYSES OF SLEEP AND WAKE BOUTS IN RATS AFTER VLPO LESIONS

Ramalingam V, Wang W, Saper C, Klerman EB

#0139 Poster Board 6

ANTILOCK ANALGESIA & AROUSAL: A NEW MODEL FOR BRAINSTEM SLEEP/WAKE STATE MODULATION OF PAIN

Hellman KM, Mason P

#0140 Poster Board 7

ACTIVITY OF MIDBRAIN LOCOMOTOR REGION (MLR) NEURONS DURING SLEEP-WAKE CYCLE AND RESPONSE TO SPINAL CORD STIMULATION

Thankachan S, Lu J

#0141 Poster Board 8

MUSCIMOL INACTIVATION OF THE PARABRACHIAL/PRECOERLEAN REGION INCREASES SLEEP IN THE RAT

Strecker RE, McKenna JT, Bolortuya Y, Kocsis B, McCarley RW

#0142 Poster Board 9

MATURATION OF SLEEP HOMEOSTASIS IN RATS DURING THE FOURTH POSTNATAL WEEK

Gvilia I, Angara B, McGinty DJ, Szymusiak RS

#0143 Poster Board 10

CREB IS REQUIRED IN THE FOREBRAIN TO MAINTAIN WAKEFULNESS

Wimmer M, Cui R, Abel T

#0144 Poster Board 11

WORKLOAD EFFECT IN A SLEEP/WAKE HOMEOSTASIS-BASED MODEL OF COGNITIVE PERFORMANCE

McCauley P, Belenky G, Van Dongen H

#0145 Poster Board 12

SLEEP ONSET REM PERIOD (SOREMP) DURING ROUTINE EEG

Pizarro-Otero J, Bozorg A, Benbadis SR

#0146 Poster Board 13

MUSCLE PHENOTYPE PREDICTS THE DEGREE OF MUSCLE TONE SUPPRESSION IN SLEEP

Schwarz PB, Peever J

#0147 Poster Board 14

OPTIMAL AIR TEMPERATURE AT SUMMER SLEEP ENVIRONMENT IN REM SLEEP

Han J, Lee J

P 32: Neurobiology: Sleep Mechanisms

#0150 Poster Board 15

ALTERATIONS IN ADENOSINERGIC AND ADRENERGIC RECEPTOR mRNA LEVELS OBSERVED IN RESPONSE TO CHRONIC SLEEP RESTRICTION IN RATS

Kim Y, Bolortuya Y, Chen L, Basheer R, McCarley RW, Strecker RE

#0151 Poster Board 16

ADENOSINE INHIBITS THE GLUTAMATERGIC INPUT TO BASAL FOREBRAIN CHOLINERGIC NEURONS

Hawrylyuk JM, Ferrari LL, Arrigoni E

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- #0152 Poster Board 17**
CENTRAL ADMINISTRATION OF ADENOSINE A_{2a} RECEPTOR AGONIST ACTIVATES GABAERGIC NEURONS IN THE RAT PREOPTIC HYPOTHALAMUS
Kumar S, Rai S, Alam M, McGinty DJ, Szymusiak RS
- #0153 Poster Board 18**
WAKE PROMOTING EFFECTS OF SELECTIVE ADENOSINE RECEPTOR ANTAGONISTS IN OREXIN/ATAXIN-3 NARCOLEPTIC MICE
Song Y, Soya A, Okuro M, Nishino S
- #0154 Poster Board 19**
LOCAL PERFUSION OF ESZOPICLONE INTO THE PERIFORNICAL LATERAL HYPOTHALAMUS PROMOTES SLEEP IN RATS
Kumar S, McGinty DJ, Szymusiak RS
- #0155 Poster Board 20**
ROLE OF HISTAMINE IN DISRUPTED SLEEP
John J, Kodama T, Siegel J
- #0156 Poster Board 21**
PROJECTIONS FROM THE CENTRAL NUCLEUS OF THE AMYGDALA TO NEURONS IN THE NUCLEUS PONTIS ORALIS: AN INTRACELLULAR STUDY
Xi M, Fung SJ, Chase MH
- #0157 Poster Board 22**
GLUTAMATERGIC NEURONS IN THE CENTRAL NUCLEUS OF THE AMYGDALA PROJECT DIRECTLY TO THE NPO
Zhang J, Xi M, Fung SJ, Sampogna S, Lim V, Chase MH
- #0158 Poster Board 23**
NATURE OF CHOLINERGIC INNERVATION OF THE CAUDAL, ORAL PONTINE RETICULAR FORMATION IN THE RAT
Liang C, Marks GA
- #0159 Poster Board 24**
GLYCINERGIC/GABAA-MEDIATED INHIBITION OF TRIGEMINAL MOTONEURONS IS DIFFERENTIALLY REGULATED DURING INDIVIDUAL REM SLEEP EPISODES
Brooks PL, Peever J
- #0160 Poster Board 25**
AN INVESTIGATION OF SPONTANEOUS CORTICAL SLOW OSCILLATIONS USING 256-CHANNEL EEG
Gilbert TT, Luu P, Tucker D
- #0161 Poster Board 26**
THE ANTI-NEUROINFLAMMATORY AGENT, MINOCYCLINE, SUPPRESSES SLEEP AND ELECTROENCEPHALOGRAPHIC SLOW WAVE ACTIVITY IN MICE
Wisor J, Schmidt MA, Clegern WC
- #0162 Poster Board 27**
SLEEP DEPENDENT ABNORMAL EEG PATTERN IN Ts65Dn MOUSE MODEL OF DOWN SYNDROME
Ishimaru Y, Okuro M, Kleschevnikov AM, Chiba S, Mobley W, Nishino S
- #0163 Poster Board 28**
GAMMA BAND POPULATION ACTIVITY IN THE PARAFASCICULAR NUCLEUS - EFFECTS OF CARBACHOL
Beck P, Kezunovic N, Simon C, Hyde J, Ye M, Garcia-Rill E
- #0164 Poster Board 29**
GAMMA BAND POPULATION ACTIVITY IN THE PARAFASCICULAR NUCLEUS - EFFECTS OF NMDA AND KAINIC ACID
Beck P, Kezunovic N, Simon C, Hyde J, Ye M, Garcia-Rill E
- #0165 Poster Board 30**
RESPONSE OF PEDUNCULOPONTINE NEURONS TO N-METYL-D-ASPARTIC ACID
Simon C, Ye M, Garcia-Rill E
- #0166 Poster Board 31**
GAMMA BAND POPULATION ACTIVITY IN THE PEDUNCULOPONTINE NUCLEUS - EFFECTS OF CARBACHOL
Hyde J, Kezunovic N, Simon C, Ye M, Garcia-Rill E
- #0167 Poster Board 32**
GAMMA BAND POPULATION ACTIVITY IN THE PEDUNCULOPONTINE NUCLEUS - EFFECTS OF NMDA AND KAINIC ACID
Kezunovic N, Simon C, Hyde J, Ye M, Garcia-Rill E
- #0168 Poster Board 33**
GAMMA BAND POPULATION ACTIVITY IN THE SUBCOERULEUS NUCLEUS - EFFECTS OF CARBACHOL
Garcia-Rill E, Simon C, Kezunovic N, Hyde J, Ye M, Hesiter D, Smith K
- #0169 Poster Board 34**
GAMMA BAND POPULATION ACTIVITY IN THE SUBCOERULEUS NUCLEUS - EFFECTS OF NMDA AND KAINIC ACID
Simon C, Kezunovic N, Hyde J, Ye M, Smith K, Garcia-Rill E

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#0170 Poster Board 35

HOMEOSTASIS OF A C. ELEGANS SLEEP-LIKE STATE

Lamb A, Shockley KR, Raizen DM

#0171 Poster Board 36

NEURONAL ACTIVITY IN MACAQUE BASAL FOREBRAIN RELATED TO AROUSAL STATES AND COGNITIVE PERFORMANCE

Yamane Y, Sugihara T

#0172 Poster Board 37

NEURAL AND NON-NEURAL SUPRACHIASMATIC INFLUENCES ON SLEEP AND WAKEFULNESS IN INFANT RATS

Gall AJ, Blumberg MS

#0173 Poster Board 38

EFFECTS OF SHORT LIGHT-DARK CYCLES ON SLEEP AND WAKING IN ALBINO MICE WITH RETINAL DEGENERATION

Hsiao F, Tsai L

#0174 Poster Board 39

UNDERSTANDING INTERNAL DESYNCHRONY AND THE PHYSIOLOGICAL EFFECTS OF SELF-SELECTED SCHEDULES USING A QUANTITATIVE MODEL OF SLEEP PHYSIOLOGY

Phillips AJ, Klerman EB

#0175 Poster Board 40

HYPOCRETIN/OREXIN NEURONS CONTRIBUTE TO RESPIRATORY MUSCLE TONE CONTROL IN MICE

Saleh A, Peever J

#0176 Poster Board 41

MICE EXPOSED TO CHRONIC INTERMITTENT HYPOXIA (CIH) ARE CHARACTERIZED BY INCREASED OXIDATIVE STRESS AND IMPAIRED RESPIRATORY FUNCTION IN CORTICAL AND HIPPOCAMPAL MITOCHONDRIA

Wang Y, Gozal D, Zhang S

#0177 Poster Board 42

LONG-TERM INTERMITTENT HYPOXIA (IH) INCREASES PRODUCTION OF REACTIVE OXYGEN SPECIES IN CORTICAL AND HIPPOCAMPAL MITOCHONDRIA AND INDUCES NEURONAL APOPTOSIS IN MICE

Zhang S, Gozal D, Wang Y

P 33: Neurobiology: Modifiers of Sleep and Sleepiness

#0180 Poster Board 43

REM SLEEP PLAYS A ROLE IN OCULAR DOMINANCE PLASTICITY CONSOLIDATION

Dumoulin MC, Seibt J, Aton S, Coleman T, Kim S, Bridi M, Wasserman J, Frank MG

#0181 Poster Board 44

SLEEP-RELATED SPONTANEOUS ACTIVITY AND RECOVERY OF FUNCTION IN THE SOMATOSENSORY CORTEX OF INTACT AND CALLOSOTOMIZED INFANT RATS

Marcano-Reik A, Blumberg MS

#0127 Poster Board 45

DEFICIENCY OF SYNAPTIC CELL-ADHESION MOLECULE, NEUREXIN-3, AND WAKE-PROMOTING RESPONSE TO AMPHETAMINE

Okuro M, Tabuchi K, Sudhof TC, Nishino S

#0128 Poster Board 46

EFFECTS OF SLEEP DEPRIVATION ON SINGLE UNIT ACTIVITY IN THE RAT LATERAL PREOPTIC HYPOTHALAMUS

Alam MA, Alam M, Suntsova N, McGinty DJ, Szymusiak RS

#0129 Poster Board 47

PREDICTING THE INFLUENCE OF SOUND ON SLEEP

Dang-Vu T, McKinney S, Buxton OM, Solet JM, Ellenbogen JM

#0130 Poster Board 48

OVERNIGHT INCREASES IN MEDIAL TEMPORAL LOBE RESPONSE DURING EMOTIONAL MEMORY

Lewis PA, Manning L, Critchley H

#0131 Poster Board 49

FUNCTIONAL MRI CORRELATES OF SELF-REPORTED DAYTIME SLEEPINESS

Yurgelun-Todd DA, Killgore WD

P 34: Physiology and Variability of Normal Sleep

#0921 Poster Board 50

VARIABILITY IN SELF-REPORTED SLEEP AMONG YOUNG, MIDDLE-AGED, AND OLDER ADULTS

Dillon HR, Lichstein KL, Taylor DJ, Riedel BW, Bush AJ

#0922 Poster Board 51

SLEEP IN EARLY GESTATION: A PRELIMINARY LOOK

Okun ML, Wettlaufer B, Kiewra K, Wood A

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- #0923 Poster Board 52**
SLEEP QUALITY AND SLEEP PATTERNS OF ON-DUTY PROFESSIONAL FIREFIGHTERS
Carey MG, Al-Zaiti SS, Butler RA, Dean GE
- #0924 Poster Board 53**
EFFECTS OF SLEEP ON GROSS MOTOR, FINE MOTOR AND SERIAL ORDER MEMORY
Grunstein L, Liu P, Richmond J
- #0925 Poster Board 54**
THE EVALUATION OF PHYSICAL AND COGNITIVE FUNCTIONS, AROUSAL LEVELS AND MOODS IN HEALTHY UNIVERSITY STUDENTS AFTER ZALEPLON ADMINISTRATION
Ito W, Shimizu K, Ito SU, Wakasa M, Narita E, Suda H, Kikuchi Y, Tsutsui K, Kanbayashi T, Shimizu T
- #0926 Poster Board 55**
PERSONALIZATION OF FALLING-ASLEEP AND WAKE-UP ENHANCEMENT PROGRAMS: PILOT STUDY
Raffray T, Pelletier S, Gauriau C, Duforez F, Elbaz M
- #0927 Poster Board 56**
THE ROLE OF BODY TEMPERATURE RHYTHMS IN RISK TAKING
Smith LJ, Bootzin RR
- #0928 Poster Board 57**
THE RECIPROCAL INTERACTIONS BETWEEN PHASIC EVENTS DURING NREM SLEEP
Bruni O, Novelli L, Finotti E, Ferri R
- #0929 Poster Board 58**
AROUSALS IN REM SLEEP WITHOUT EMG CHANGES
Ellenbogen JM, Buxton OM, Merlino MM, Sorenson PG, Solet JM
- #0930 Poster Board 59**
ATYPICAL HEART RATE INCREASE AFTER SLEEP ONSET
Oksenberg A, Fuxman YD, Baharav A
- #0931 Poster Board 60**
INFLUENCE OF CLONIDINE ON BREATHING DURING STABLE NREM SLEEP IN HEALTHY INDIVIDUALS
Grullon KR, Rowley JA, Sankri-tarbichi A, Badr M
- P 35: Sleep, Sleep Deprivation and Performance**
- #0100 Poster Board 61**
THE IMPACT OF A POOR NIGHT SLEEP IN HEALTHY SLEEPERS: AN EVENT-RELATED POTENTIAL STUDY
De Valck E, Cotoos A, Cluydts R
- #0101 Poster Board 62**
REGENERATION OF OVERNIGHT MEMORY CONSOLIDATION ABILITY IN CPAP PATIENTS
Payne JD, Tahir A, Radvansky GA, McNearny MW, Chaudhary BA
- #0102 Poster Board 63**
SO YOU WANNA BE A ROCK STAR? SLEEP ON IT
Higginson CD, Laundry J, Fogel SM, Ray LB, Smith C, Peters K
- #0103 Poster Board 64**
INTERACTIONS OF SLEEP AND WAKING WITH IMPLICIT AND EXPLICIT SEQUENCE LEARNING
Porte HS, Bussard ME
- #0104 Poster Board 65**
PERCEPTUAL LEARNING DIFFERENCES BETWEEN HABITUAL AND NON-HABITUAL NAPPERS
McDevitt EA, Mednick SC
- #0105 Poster Board 66**
THE ROLE OF SOURCE AND ITEM MEMORY IN DECISION MAKING
Mehalick ML, Whitney P, Hinson J
- #0106 Poster Board 67**
EFFECT OF SLEEP ON THE PERCEPTION OF COLOR
Sheth B, Nguyen H, Whittaker G
- #0107 Poster Board 68**
SLEEP AND EMOTIONAL SOURCE MEMORY CONSOLIDATION: A NAPPING STUDY
Cairney SA, Jackson RL, Lewis PA
- #0108 Poster Board 69**
THE EFFECTS OF TOTAL VS. PARTIAL SLEEP DEPRIVATION ON VISUAL WORKING MEMORY AND FILTERING
Anderson D, McKenna BS, Perez VB, Vogel EK, Drummond SP
- #0109 Poster Board 70**
COGNITIVE FLUCTUATIONS ARE ASSOCIATED WITH ABNORMALITIES IN RESTING-STATE FUNCTIONAL NETWORKS
Ju YS, Larson-Prior L, Galvin JE

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- #0110 Poster Board 71**
PROSPECTIVE, RETROSPECTIVE, AND WORKING MEMORY ACROSS SLEEP AND WAKE DELAYS
Scullin M, McDaniel M
- #0111 Poster Board 72**
THE RELATIONSHIP BETWEEN SLEEP VARIABLES AND IQ SCORES IN ADOLESCENTS
Nader RS, Smith C, Sabbagh MA
- #0112 Poster Board 73**
THE PREVALENCE OF SLEEP DISORDERS IN COLLEGE STUDENTS AND ASSOCIATION WITH ACADEMIC PERFORMANCE
Gaultney JF
- #0113 Poster Board 74**
THE ASSOCIATION OF BMI, NEUROPSYCHOLOGICAL AND BEHAVIORAL FUNCTIONING IN CHILDREN REFERRED FOR ADENOTONSILLECTOMY
Hodges E, Ruzicka DL, Giordani B, Guire K, Garetz S, Hoban TF, Felt B, Dillon JE, Chervin RD
- #0114 Poster Board 75**
COGNITION AND BEHAVIOR ONE YEAR AFTER ADENOTONSILLECTOMY IN CHILDREN WITH AND WITHOUT OSA AT BASELINE
Giordani B, Hodges E, Guire K, Ruzicka DL, Dillon JE, Weatherly RA, Garetz S, Chervin RD
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CAN VIDEO EDUCATION IMPROVE COMPLIANCE WITH POSITIVE AIRWAY PRESSURE (PAP) AND ENHANCE PATIENT SELF-EFFICACY IN MANAGEMENT OF OBSTRUCTIVE SLEEP APNEA (OSA)?
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- #1101 Poster Board 298**
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- #1103 Poster Board 300**
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Fredrick L, Biswas A, Ruppert M, Yelkin J, Xiong X
- #1104 Poster Board 301**
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SCIENTIFIC PROGRAM

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McMillan DE, Edwards MP, Fallis WM

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FIVE-YEAR TRENDS OF SEDATIVE-HYPNOTICS USE IN JAPAN

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Belleville G

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MODAFINIL USE IN A FEDERAL HEALTHCARE FACILITY

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WEDNESDAY