ERS Research Seminar

Targeting the detrimental effects of sleep disturbances and disorders – towards personalized treatment in respiratory diseases

24 – 25 January 2019; Dublin, Ireland

Day 1 – Thursday, 24 January 2019

08:00-08:15 F	Registration
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08.15-08.30 Welcome

Session 1: Sleep in Health and Disease

- 08:30-09:15 Respiratory mechanics and ventilation during sleep (M. Morrell UK)
- 09:15-10:00 The detrimental effects of abnormal sleep duration on glucose metabolism (S. Reutrakul USA)

10:00-10:30 Coffee break

- 10:30-11:15 The circadian clock and regulation of immunity (H. Oster Germany)
- 11:15-12:00 Pathophysiological responses to Sleep fragmentation (G. Poe USA)
- 12:00-12:30 Panel Discussion
- 12:30-13:15 Lunch
- 13:15-14:00 Poster Viewing

Session 2: New insights into the deleterious effects of Intermittent Hypoxia

- 14:00-14:45Cell culture and animal models of intermittent hypoxia benefits and limitations (R.
Farre Spain)
- 14:45-15:30 Human models of IH: what can they add? (R. Tamisier France)
- 15:30-16:00 Coffee break
- 16:00-16:45 Adaptive and maladaptive responses to IH: where is the threshold? (I. Almendros Spain)
- 16:45-17:30 New insights into the deleterious effects of IH in OSA (J. Jun USA)
- 17:30-18:00 Panel Discussion

Day 2 – Friday, 25 January 2019

Session 3: Targeting the detrimental effects of sleep disturbances – The Future

- 08:30-09:15 The role of carbon dioxide in immunity and inflammation-a forgotten dimension (E. Cummins Ireland)
- 09:15-10:00 Circadian regulation of inflammation and immunity (D. Ray UK)
- 10:00-10:30 Coffee break

- 10:30-11:15 How to translate findings from experimental models into clinical studies in OSA (J.L. Pepin France)
- 11:15-12:00 Targeting the detrimental effects of sleep disturbances in OSA: CPAP and what else? (M. Sanchez de la Torre Spain)
- 12:00-12:30 Panel Discussion
- 12:30-13:00 Summing up and Conclusion
- 13:00-14:00 Lunch and Departure