

ERATO UK-Japan Joint Symposium On Circadian rhythms and Sleep, University of Oxford

Date: March 11th (Mon.) – March 13th (Wed.), 2024

Venue: Oxford Martin School

University of Oxford, 34 Broad Street, Oxford, OX1 3BD, United Kingdom

Program - Day 1 (March 11, 2024)				
Welcome ceremony				
13:00 - 13:10		Opening address	Russell Foster	University of Oxford
13:10 - 13:15		Greeting	Hajime Hayashi	Ambassador of Japan to UK
13:15 - 13:20		Greeting	John Bell	University of Oxford
Keynote lecture				
13:20 - 14:20		Sleep vs. sleep-wake rhythm; different nature of similar functions	Sato Honma	Sapporo Hanazono Hospital /Hokkaido University
Session 1: Science, Policy, and Society				
14:20 - 14:40		Moving the sleep lab into the home using wearable technology and machine learning	Lionel Tarassenko	University of Oxford
14:40 - 15:00		Biological Clocks, on Arrival.	Andrew J. Millar	University of Edinburgh
15:00 - 15:20		Panel discussion	Lionel Tarassenko	University of Oxford
			Andrew J. Millar	University of Edinburgh
			Yoshitaka Fukada	The University of Tokyo
			Russell Foster	University of Oxford
			Hiroki R. Ueda	The University of Tokyo
Excursion				
15:20 - 17:15		Natural History Museum etc		
Special lecture				
17:15 - 18:00		'Slumber Machines Needed': Sleep Research and Explorations of Insomnia in the Nineteenth Century	Sally Shuttleworth	University of Oxford
Welcome dinner				
18:30 - 20:30		Bodleian Library		

Program - Day 2 (March 12, 2024)				
Session 2: Sleep Research				
9:40 - 10:10		Dynamic synaptic inhibition and local sleep pressure in cortex	Colin J. Akerman	University of Oxford
10:10 - 10:40		Mathematical modelling of sleep and circadian rhythms and our interactions with society and the environment	Anne Skeldon	University of Surrey
10:40 - 11:10		State dependency of pontine waves	Shuzo Sakata	University of Strathclyde
11:10 - 11:40		The Multifaceted Role of CaMKII in the Control of Sleep Dynamics in Mammals	Koji L. Ode	The University of Tokyo
Lunch				
11:40 - 12:40		Lunch		
Data blitz				
12:40 - 12:46		Landscape of human sleep phenotypes revealed by ACCEL	Akfumi Kishi	The University of Tokyo
12:52 - 12:58		Inhaled anesthetics target the type 1 ryanodine receptor	Hiroyuki J. Kanaya	The University of Tokyo
12:58 - 13:04		Heart-related cation channels control the frequency of Slow Wave Activity	Maria Neus Ballester Roig	RIKEN BDR
13:04 - 13:10		Post-synaptic competition between calcineurin and PKA regulates mammalian sleep-wake cycles.	Rikuhiro Yamada	RIKEN BDR
13:10 - 13:16		Let sleep take out the trash	Natalie Hauglund	University of Oxford
13:16 - 13:22		Light Regulated SIK1 Remodels the Synaptic Phosphoproteome to Alter Sleep Timing	Zeinab Wakaf	University of Oxford
13:22 - 13:28		Time of day effect on cerebral ischemia-reperfusion injury	Amin Mottahedin	University of Oxford
Sponsored talk				
13:28 - 13:34			Fraser McCready	MaxWell Biosystems
13:34 - 13:40			Kazuhiro Sawa	Mitsui Chemicals
Session 3: Circadian Rhythm research				
14:00 - 14:30		A matter of time. Wheat is not Arabidopsis.	Alex A R Webb	University of Cambridge
14:30 - 15:00		Circadian clockwork needs clock protein modifications	Yoshitaka Fukada	The University of Tokyo
15:00 - 15:30		The Circadian Clock and Viral Infections	Jane McKeating	University of Oxford
15:30 - 16:00		mTOR drives daily physiology	John O'Neill	MRC Laboratory of Molecular Biology, Cambridge
Coffee break				
16:00 - 16:30				
Session 4: Neural Circuits				
16:30 - 17:00		Glianeuronal mechanisms integrating sleep homeostasis and motivation	Michael Lazarus	University of Tsukuba
17:00 - 17:30		Biological rhythms in hypothalamic and brainstem circuits.	Hugh D. Piggins	University of Bristol
17:30 - 18:00		Layer 6b, a cortical layer with important functions	Zoltán Molnár	University of Oxford
18:00 - 18:30		Cortico-subcortical dynamics during sleep-induced and sedation-induced loss/recovery of consciousness	Tomoko Yamagata	Toho University
Speaker dinner				
19:00 - 21:00		Hertford college		

Program - Day 3 (March 13, 2024)				
Session 5: Sleep / Circadian Medicine				
9:40 - 10:10		Behavioural interventions for sleep and circadian rhythm disruption	Simon D. Kyle	University of Oxford
10:10 - 10:40		Harnessing circadian rhythms to tackle metabolic disorders.	Sridhar Vasudevan	University of Oxford
10:40 - 11:10		TimeTeller: A novel tool to predict clock phenotype from single-time point samples	Robert Dallmann	University of Warwick
11:10 - 11:40		Meal timing affects cardiometabolic health	Sarah L. Chellappa	University of Southampton
Special lecture				
11:40 - 12:25		Circadian misalignment and cardiometabolic disease	David Ray	University of Oxford
Closing remark				
12:25 - 12:30		Closing remark	Hiroki R. Ueda	The University of Tokyo
Lunch				
12:30 -		Lunch		
Excursion				