


# XII Congress of the European Biological Rhythms Society

In association with  
the Japanese Society for Chronobiology

## Preliminary Timetable (20 July 2011)

Saturday 20 August

The Registration desk will open at 12.00 and will be open daily throughout Congress from 09.00-17.00.

16.30-17.00	South Writing School	<b>OPENING CEREMONY</b>	
17.00-18.00	South Writing School	<b>LE1: The Gwinner Lecture</b> Chair: Brian Follett <b>Speaker: Andrew Loudon</b> Title: Biological Clocks and the Problem of Environmental Challenge	
19.00-21.00	Ashmolean Museum	<b>WINE RECEPTION with canapés</b>	

Events and facilities throughout the Congress 20 – 26 August 2011:

Event/Facility	Location	Availability
Registration Desk	North Atrium, Examination Schools	From noon – 17.00, 20 August Thereafter 09.00-17.00 daily
Posters	North Writing School, Examination Schools	09.00-19.30, 21-24 August
Poster Sessions	North Writing School, Examination Schools	18.00-19.00, 21-24 August
Trade Exhibition	North Writing School, Examination Schools	09.00-17.00, 21-23 August Take down before 11.00, 24 August
'Sun Dial: Night Watch' Art Exhibition	Corridor and Room 9, Examination Schools	09.00-17.00 21-25 August 09.00-13.30, 26 August
Art Exhibition Debate	Room 9, Examination School	18.00-19.30, 25 August
Conference Bar	Queen's College, High Street	From noon, 21-26 August
Internet Cafe	Room X, Examinations School	09.00-17.00
Press Room	Room X, Examination School	09.00-17.00
Congress Office	Room X, Examination Schools	From noon – 17.00, 20 August Thereafter 09.00-17.00 daily
Luggage/Coat Room	Room X, Examination School	From noon – 17.00, 20 August

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Sunday 21 August

09.30-10.30	South Writing School	<b>LE2: The J Ariens-Kappers Lecture</b> Chair: Bambos Kyriacou <b>Speaker: Charlotte Helfrich-Förster</b> Title: What we have learnt from the circadian system of the fruit fly?
10.30-11.00	North Writing School	<b>COFFEE BREAK</b> (Trade Exhibition and Posters)
11.00-13.00	South Writing School <b>Symposium 1</b>  <b>Photic Entrainment</b>	East Writing School <b>Symposium 2</b> <b>Circadian Output Pathways</b>
11.00-11.30	<b>Chair: Stuart Peirson</b> Title: Characterising the role of melanopsin isoforms using siRNA	<b>Chair: Valérie Simonneaux</b> Title: Nervous and endocrine clock outputs to control daily and seasonal reproduction
11.30-12.00	Invited Speaker: Rob Lucas Title: Melanopsin contributions to visual information in the mouse brain	Invited Speaker: QY Zhou Title: PK2 as a mediating signal for the suprachiasmatic clock output
12.00-12.30	Invited Speaker: TBA Title: TBA	Invited Speaker: Debra Skene Title: TBA
	<b>Short Communications</b>	<b>Short Communications</b>
12.30-12.45	Speaker: Raymond Najjar Title: Aging of non-visual sensitivity to light compensatory mechanisms	Speaker: Laura Ancel - SFC Award winner Title: A Kiss for the seasonal control of reproduction
12.45-13.00	Speaker: Giles Duffield Title: Targeted disruption of the <i>Inhibitor of DNA binding 4 (Id4)</i> gene results in subtle effects on circadian clock function	Speaker: Kanwai Sakhi Title: Actions of melatonin on mouse medial habenula neurones <i>in vitro</i>
13.00-13.15	Speaker: Christian Hundahl Title: Circadian behaviour in Neuroglobin deficient mice	Speaker: Dawn H Loh Title: Vasoactive intestinal peptide regulates the female reproductive system
13.15-14.15	<b>LUNCH</b>	
14.15-16.30	South Writing School <b>Symposium 3</b> <b>Chronotype Ecology</b>	East Writing School <b>Symposium 4</b> <b>Molecular Clocks - Vertebrates</b>
14.15-14.45	<b>Chair: Roelof Hut</b> <b>Title: Reduced food intake shifts activity rhythms in house mice</b>	<b>Chair: Pat Nolan</b> <b>Title: Insights into molecular clock function using chemical mutagenesis in mice</b>
14.45-15.15	Invited Speaker: Noga Kronfeld-Schor Title: Adaptive forces and temporal niche switches in golden spiny mice	Invited Speaker: Urs Albrecht Title: The clock mechanisms and regulation of physiology in vertebrates
15.15-15.45	Invited Speaker: Horacio de la Iglesia Title: Temporal Niche: When animals see the light	Invited Speaker: Liz Maywood Title: TBA
	<b>Short Communications</b>	<b>Short Communications</b>
15.45-16.00	Speaker: Celine Vetter Title: Linking sleep timing and obesity	Speaker: Capucine Boivin Title: Role of the circadian clock regulated ATF5

		transcription factor
<b>16.00-16.15</b>	Speaker: Adrian Ocampo-Garces Title: Unmasking phase preference of the rest-activity rhythm and sleep-wake states in the fossorial coruro ( <i>Spalacopus cyanus</i> )	Speaker: Manjana Saleh Title: Toward the molecular mechanisms regulating circadian olfactory sensitivity in mammals
<b>16.15-16.30</b>	Speaker: Elke Scheibler Title: Interspecific contact affects time use in free-living Desert hamsters in Alashan desert, China	Speaker: Laura Symul Title: Modelling kinetic relationships between circadian transcription and cytosolic mRNA accumulation from pre mRNA and mRNA measurements
<b>16.30-17.00</b>	North Writing School	<b>COFFEE BREAK</b>
<b>17.00-18.00</b>	South Writing School	<b>PLENARY LECTURE 1</b> Chair: Andrew Loudon <b>Speaker: Michael Menaker</b> Title: What do we know about the function of peripheral circadian oscillators?
<b>18.00-19.00</b>	North Writing School	<b>POSTER SESSION (Wine)</b>
<b>19.30-20.30</b>	Brasenose College TBC	<b>MEETING OF THE EBRS COUNCIL</b>

Monday 22 August

09.30-10.30	South Writing School	<b>PLENARY LECTURE 2</b> Chair: Pat Nolan <b>Speaker: Achim Kramer</b> Title: A systems view on the mammalian circadian clock	
10.30-11.00	North Writing School	<b>COFFEE BREAK</b> (Trade Exhibition and Posters)	
11.00-13.00	South Writing School	East Writing School	
	<b>Symposium 5</b> <b>Clocks and molecular switches</b>	<b>Symposium 6</b> <b>Light and temperature entrainment of the circadian clock in flies</b>	
11.00-11.30	<b>Chair: David Hazlerigg</b> Title: The evolutionary physiology of photoperiodism in vertebrates	<b>Chair: Rudi Costa</b> <b>Title: TBA</b>	
11.30-12.00	Invited Speaker: Mike Sellix Title: A "switch" in sensitivity: How might the circadian clock in the ovary contribute to the timing of ovulation	Invited Speaker: Francois Rouyer Title: TBA	
12.00-12.30	Invited Speaker: Takeshi Izawa Title: Molecular switch of critical day-length recognition in plants	Invited Speaker: Ralf Stanewsky Title: TBA	
	<b>Short Communications</b>	<b>Short Communications</b>	
12.30-12.45	Speaker: Simonetta Andreatza Title: Analysis of TICK and TOCK, two new genes controlling rest-activity rhythms in <i>Drosophila</i>	Speaker: Mirko Pegoraro Title: Seasonal timing: is the circadian clock required?	
12.45-13.00	Speaker: Tomoko Ikedo Title: Insect photoperiodism under control of circadian clock genes	Speaker: Eri Morioka Title: Synaptic influence on peripheral circadian oscillators in pupal <i>Drosophila</i> prothoracic glands	
13.00-13.15	Speaker: TBA Title:	Speaker: Yosuke Miyazaki Title: Adult eclosion timing of the flesh fly, <i>Sarcophaga crassipalpis</i> : the effect of the shape of temperature cycles on the circadian clock	
13.15-14.15	<b>LUNCH</b>		
14.15-16.30	South Writing School	East Writing School	
	<b>Symposium 7</b> <b>Circadian and seasonal rhythms in plants</b>	<b>Symposium 8</b> <b>Circadian clocks, clock genes and diseases</b>	
14.15-14.45	<b>Chair: Andrew Millar</b> <b>Title: TBA</b>	<b>Chair: Henrik Oster</b> <b>Title: Glucocorticoids, tissue clocks and jet lag</b>	
14.45-15.15	Invited Speaker: Paloma Mas Title: TBA	Invited Speaker: Francis Levi Title: systems chronopharmacology approaches for the personalisation of cancer chronotherapeutics	
15.15-15.45	Invited Speaker: Pieter Rien ten Wolde Title: TBA	Invited Speaker: Marsha Morgan Title: TBA	
	<b>Short Communications</b>	<b>Short Communications</b>	
15.45-16.00	Speaker: Linda Polhilko	Speaker: Sarah Otto	

	Title: Model-based analysis of molecular mechanisms of <i>Arabidopsis circadian</i> clock	Title: Clocks determine outcome of parasitic worms infection in mice
<b>16.00-16.15</b>	Speaker: Rachel Green Title: Cell autonomous and cell-type specific circadian rhythms in <i>Arabidopsis</i>	Speaker: Ali Mteyrek Title: relevance of <i>per2</i> mutation for diethylnitrosamine-induced liver carcinogenesis
<b>16.15-16.30</b>	Speaker: Hirokazu Fukada Title: Striped moving pattern of circadian rhythm in plant roots	Speaker: Eva Winnebeck Title: general anaesthesia phase shifts the circadian clock
<b>16.30-17.00</b>	North Writing School	<b>COFFEE BREAK</b> (Trade Exhibition and Posters)
<b>17.00-18.00</b>	South Writing School	<b>The Axelrod Lecture</b> Chair: Bill Schwartz <b>Speaker: Marty Zatz</b> Title: A Brief Overview of Julie's Shmoo: Input, Throughput, and Output in the Pineal Gland
<b>18.00-19.00</b>	North Writing School	<b>POSTER SESSION (Wine)</b>

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**Special Symposium (9) Cells to Circuits: Circuits to Behaviour**

<b>09.30-10.30</b>	South Writing School	<b>PLENARY LECTURE 3</b> Chair: Sarah Caddick <b>Speaker: Gero Meisenboeck</b> Title: Optogenetics, circuits and fly behaviour
<b>10.30-11.00</b>	North Writing School	<b>COFFEE BREAK</b> (Trade Exhibition and Posters)
<b>11.00-13.00</b>	South Writing School	<b>Vertebrate Systems</b> <b>Chair: Gero Miesenboeck</b>
<b>11.00-11.40</b>		Invited Speaker: Mick Hastings Title: Analysing and manipulating transcriptional and cellular circuits in the suprachiasmatic nucleus
<b>11.40-12.20</b>		Invited Speaker: Matt Jones Title: Roles of oscillatory activity on coordinating interactions between functionally connected brain regions (sleep and replay)
<b>12.20-13.00</b>		Invited Speaker: Matteo Carandini Title: Dynamics of population activity in visual cortex
<b>13.00-14.30</b>	<b>North Writing School</b>	<b>LUNCH including 1.45-2.15 General Assembly of the EBRS</b>
<b>14.30-16.30</b>	South Writing School	<b>Invertebrate Systems</b> <b>Chair: Charlotte Helfrich-Förster</b>
<b>14.30-15.10</b>		Invited Speaker: Barry Dickson Title: Fly genes, neuronal wiring, circuits and behaviour
<b>15.10-15.50</b>		Invited Speaker: Mario de Bono Title: Worms, genes, circuits and behaviour
<b>15.50-16.30</b>		Invited Speaker: tom Matheson Title: Neuronal plasticity and rhythms in the visual system of desert locusts
<b>16.30-17.00</b>	North Writing School	<b>COFFEE BREAK</b> (Trade Exhibition and Posters)
<b>17.00-18.00</b>	South Writing School	<b>PLENARY LECTURE 4</b> Chair: Mick Hastings Speaker: John O'Keefe Title: The role of theta-band oscillations in hippocampal spatial computations
<b>18.00-19.00</b>	South Writing School	<b>POSTER SESSION (Wine)</b>

Wednesday 24 August

09.30-10.30	South Writing School	<b>PLENARY LECTURE 5</b> Chair: Till Roenneberg <b>Speaker: Joke Meijer</b> Title: Does the SCN control behavioral activity levels?	
10.30-11.00	North Writing School	<b>COFFEE BREAK</b> (Trade Exhibition and Posters)	
11.00-13.00	South Writing School <b>Symposium 10</b> <b>EBRS-ESRS Symposium - Sleep-Clock Mechanisms</b> <b>Chair: Debra Skene</b>	11.00-13.15	East Writing School <b>Symposium 11</b> <b>SCN</b>
11.00-11.30	Invited Speaker: Tom de Boer Title: Circadian modulation of sleep in rodents	11.00-11.30	<b>Chair: Hugh Piggins</b> <b>Title: Cellular properties of circadian clock neurones</b>
11.30-12.00	Invited Speaker: Derk-Jan Dijk Title: Sleep and circadian rhythms in humans: a two-way interaction	11.30-12.00	Invited Speaker: Karl O'Brieton Title: The ERK/MAPK pathway: a multifaceted regulator suprachiasmatic clock timing and entrainment
12.00-12.30	Invited Speaker: Tarja Porkka-Heiskanen Title: Mechanisms of sleep homeostasis	12.00-12.30	Invited Speaker: Alun Hughes Title: Feedback actions of exercise on the SNC and circadian system
12.30-13.00	Invited Speaker: Lino Nobili Title: Local aspects of sleep: observations from intracerebral recordings in humans	<b>Short Communications</b>	
		12.30-12.45	Speaker: Emma Cussans Title: Cancer infiltration in the human suprachiasmatic nucleus associated with circadian disruption
		12.45-13.00	Speaker: Marco Brancaccio Title: Using lentiviral vectors to track the circadian activity of <u>C</u> yclic AMP/ <u>Ca</u> lcium <u>R</u> esponsive <u>E</u> lements in the Suprachiasmatic Nucleus
		13.00-13.15	Speaker: Hester van Diepen Title: Essential role for vasoactive intestinal polypeptide in seasonal encoding by the suprachiasmatic nucleus

Afternoon off to explore Oxford

East Writing School <b>Satellite Symposium</b> <b>Modulation of retinal functions by circadian clocks</b>	
	<b>Session 1</b> <b>Moderator: Gianluca Tosini</b>
14:00-14:30	Speaker: Douglas McMahan Title: "Keeping the eye on time: Circadian organization of the retina"
14:30-14:45	Speaker: Marie-Paule Felder-Schmittbuhl

	Title: "Layer-specific dissection of retinal circadian oscillators."
14:45-15:15	Speaker: Rob Lucas Title: "Rhythmicity in the mouse electroretinogram."
15:15-15:45	Speaker: Michael Iuvone: Title: "Dopamine and synchronization of circadian rhythms in mouse retina."
15:45-16:00	Break
	<b>Session 2</b> <b>Moderator: Michael Iuvone</b>
16:00-16:30	Speaker: Rainer Spessert Title: "The search for genes under daily regulation in retina and photoreceptor of mammals"
16:30-16:45	Speaker: Sumathi Sekaran Title: "Rhythmic regulation of retinal connexins"
16:45-17:15	Speaker: Stuart Mangel Title: "The circadian clock in the retina controls rod pathway activity in the day and night."
17:15-17:45	Speaker: Gianluca Tosini Title: "Removal of melatonin signaling affects retinal physiology "

<b>19.30</b>	North Writing School	<b>CONFERENCE BANQUET</b>  <b>BANQUET AFTER-DINNER SPEAKER</b> Introduction: Russell Foster <b>Speaker: Brian Follett</b> Title: TBA
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Thursday 25 August

09.30-10.30	South Writing School	<b>LE4: JCS</b> <b>Chair: Takashi Yoshimura</b> <b>Speaker: Sato Honma</b> Title: Suprachiasmatic nucleus: cellular clocks and networks
10.30-11.00	North Writing School	<b>COFFEE BREAK</b>
11.00-13.15	South Writing School <b>Symposium 12</b> <b>Clocks/Sleep and Metabolism</b>	East Writing School <b>Symposium 13</b> <b>Rhythms, Sleep and Memory</b>
	<b>Chair: Andries Kalsbeek</b> <b>Title: TBA</b>	<b>Chair: Eus van Someren</b> <b>Title: TBA</b>
11.30-12.00	Invited Speaker: Frank Scheer Title: Cardiometabolic health impact of the human circadian system	Invited Speaker: H. Craig Heller Title: The roles of sleep and circadian rhythm in learning and memory
12.00-12.30	Invited Speaker: Bart Staels Title: Nuclear receptors integrate circadian rhythms and metabolism	Invited Speaker: Jason Gerstner Title: Fatty-acid binding proteins regulate sleep and long-term memory
	<b>Short Communications</b>	<b>Short Communications</b>
12.30-12.45	Speaker: Anton Shostak Title: the role of adipose tissue clocks in metabolic maintenance	Speaker: TBA Title:
12.45-13.00	Speaker: Hanne Gonnissen Title: Quality sleep and energy balance	Speaker: TBA Title:
13.00-13.15	Speaker: Tamara Varcoe Title: Chronic phase shifts of the photoperiod throughout pregnancy programs glucose intolerance and insulin resistance in the rat	Speaker: TBA Title:
13.15-14.15	<b>LUNCH</b>	
14.15-16.30	South Writing School <b>Symposium 14</b> <b>Sleep/Clocks Mental Health and Neurodegenerative Disease</b>	East Writing School <b>Symposium 15</b> <b>Enigmatic Clocks: Circannual and Circatidal Rhythms</b>
	<b>Supported by</b> <b>wellcome</b> trust	
14.15-14.45	<b>Chair: Phil Cowen</b> <b>Title: Antidepressants and sleep</b>	<b>Chair: Barbara Helm</b> <b>Title: Temporal multitasking: performance of migratory birds on different timescales</b>
14.45-15.15	Invited Speaker: Katharina Wulff Title: Circadian rhythms in schizophrenia/bipolar disorder	Invited Speaker: Hideharu Numata Title: The clock driving the circannual rhythm in the varied carpet beetle
15.15-15.45	Invited Speaker: Joe Herbert Title: Corticoid rhythms, hippocampal neurogenesis and depression	Invited Speaker: Kim Last Title: Biological clock lability in the marine domain: from temperate shores to the Arctic Ocean
	<b>Short Communications</b>	<b>Short Communications</b>
15.45-16.00	Speaker: Kate Porcheret Title: The effect of sleep deprivation on	Speaker: Stefanie Moenecke Title: Ontogeny of the seasonally varying activity

	emotional processing following exposure to a depressing film	pattern in European Hamsters
<b>16.00-16.15</b>	Speaker: Elisabet Ortiz-Tudela Title: Biological rhythms characterization in mild cognitive impairment	Speaker: Hiroki Takekata Title: The circatidal rhythm of the mangrove cricket persists after RNAi of the circadian clock gene <i>period</i>
<b>16.15-16.30</b>	Speaker: TBA Title:	Speaker: James Cheeseman Title: Semilunar clock mechanism controlling foraging behaviour: A view from the Pacific
<b>16.30-17.00</b>	North Writing School	<b>COFFEE BREAK</b>
<b>17.00-18.00</b>	South Writing School	<p><b>PLENARY LECTURE 6</b></p> <p>Chair: Russell Foster</p> <p><b>Speaker: Ueli Schibler</b></p> <p>Title: Signalling within the mammalian timing system: The phase entrainment of peripheral clocks</p>
<b>18.00-19.30</b>	South Writing School	<b>Susan Morris Art Presentation Sun Dial: Night Watch</b>

Friday 26 August

09.30-10.30	South Writing School	<b>PLENARY LECTURE 7</b> Chair: Martha Merrow <b>Speaker: William Schwartz</b> Title: Sociochronobiology
10.30-11.00	North Writing School	<b>COFFEE BREAK</b>
11.00-13.15	South Writing School <b>Symposium 16</b> <b>Development and Aging of Circadian Systems</b>	East Writing School <b>Symposium 17</b> <b>Living Against the Clock</b>
11.00-11.30	<b>Chair: Alena Sumova</b> <b>Title: How circadian clocks change during life</b>	<b>Chair: Till Roenneberg</b> <b>Title: What can we learn from alarm clocks</b>
11.30-12.00	Invited Speaker: Fred Turek Title: Aging	Invited Speaker: Torbjorn Akerstedt Title: Night driving, sleepiness and risk
12.00-12.30	Invited Speaker: Hidenobu Ohta Title: Lighting conditions and developing biological clocks	Invited Speaker: David Dinges Title: Managing neurobehavioural capability when social expediency trumps biological imperatives
	<b>Short Communications</b>	<b>Short Communications</b>
12.30-12.45	Speaker: Carolin Reichert Title: Motor skills learning under sustained wakefulness: influence of age, sleep pressure and time of day	Speaker: Title:
12.45-13.00	Speaker: Benita Middleton Title: the effect of increasing artificial light levels on rest-activity rhythms of older people living in care homes	Speaker: Title:
13.00-13.15	Speaker: Lorena Abarzua-Catalan Title: The fetal rat heart is a potential target for maternal melatonin actions	Speaker: Title:
13.15-14.15	<b>LUNCH</b>	
14.15-16.30	South Writing School <b>Symposium 18</b> <b>Photic Entrainment in Non-Mammals</b>	East Writing School <b>Symposium 19</b> <b>Clocks in Unicells</b>
	<b>Chair: David Whitmore</b>	<b>Chair: Martha Merrow</b> <b>Title: TBA</b>
14.15-14.45	Invited Speaker: Mark Hankins Title: Functional diversity of melanopsins and their global expression in the Zebrafish retina	
14.45-15.15	Invited Speaker: Nicholas Foulkes Title: Circadian clocks – lessons from fish	Invited Speaker: Takao Kondo Title: Circadian timing of cyanobacteria by intramolecular regulation of KaiC APTase
15.15-15.45	Invited Speaker: Yoshitaka Fukada Title: posttranslational light activation of sterol regulatory element-binding protein is important for phase-delay of the chick pineal clock	Invited Speaker: Florence Corellou Title: Unravelling clock-work in the simple eukaryotic unicellular system: <i>Ostreococcus</i>
	<b>Short Communications</b>	<b>Short Communications</b>

<b>15.45-16.00</b>	Speaker: Jose Manuel Garcia-Fernandez Title: Avian ncephalic photoreceptors: The VA/opsin/vasotocin/GnRH Hypothesis	Speaker: Title:
<b>16.00-16.15</b>	Speaker: Jose Lopez Olmeda Title: Daily rhythms in the hypothalamus-pituitary endocrine factors involved in stress and growth in a teleost fish, <i>Solea senegalensis</i>	Speaker: Title:
<b>16.15-16.30</b>	Speaker: Elsbeth Mc Stay Title: There's something fishy about the salmon clock!	Speaker: Title:
<b>16.30-17.00</b>	<b>Awards and Summing – Up</b> <b>Speaker: Russell Foster</b>	
	<b>END OF CONGRESS</b>	

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