

XI. Congress of the European Biological Rhythms Society

August 22-28, 2009
Strasbourg, France

in association with
the Japanese Society for Chronobiology

TIMING OF THE PROGRAMME

Saturday, August 22

The registration desk will be open at 14:00 (2 pm).

16.00-17.30	OPENING CEREMONY
17.30-18.30	LE1: THE J. ARIENS-KAPPERS LECTURE Chairman: P. Pévet (France) R.M. Buijs (Mexico city, Mexico): The autonomic and endocrine system as carrier of rhythmic information
18.30-21.00	GET TOGETHER

Sunday, August 23

08.30-09.30	LE4: THE JCS LECTURE Chairman: K.I. Honma (Japan) J.S. Takahashi (Evanston, USA) Genetic dissection of the circadian clock in Mammals	
09.30-10.00	COFFEE BREAK	
10.00-12.00	Room 1 S1: Photodetection by the circadian system	Room 2 S7: Organization of the mammalian circadian timing system: centrifugal or centripetal
10.00-10.20	Chairman: R. Foster (UK): VA opsin-based photoreceptors in the hypothalamus of birds	Chairman: W. Schwartz (USA): Introduction
	Conferences	Conferences
10.20-10.45	H.W. Cooper (France): Melanopsin expresses invertebrate-like bistable properties in the human retina	A. Kalsbeek (The Netherlands): SCN neuronal outputs as mediators of peripheral circadian structures: functions
10.45-11.10	G.P. Tosini (USA): Melatonin modulates visual function and cells viability in the mouse retina via the MT1 melatonin receptor	H. Piggins (UK): Extra-suprachiasmatic circadian oscillators in the mouse brain
	Short communications	Short communications
11.10-11.25	C. Von Gall (Germany): The mammalian molecular clockwork controls rhythmic expression of the ryanodine receptor	V. Pilorz (Netherlands): Internal desynchronisation between the central circadian pacemaker and peripheral rhythms in CBA/CaJ mice using workload
11.25-11.40	C. Wülbeck (Germany): Effects of constant monochromatic light on the locomotor rhythm of Drosophila melanogaster	C. Torres-Farfan (Chile): In the fetal rat, the adrenal circadian clock is functional before the SCN clock
11.40-11.55	C.A. Hundahl (Denmark): Neuroglobin expression in the rat suprachiasmatic nucleus (SCN): Co-localisation, innervation and response to light	M.A. Guzmán-Ruiz (Mexico): The SCN activates α-MSH neurons in the ARC at the end of the activity period
12.00-13.00	POSTER SESSION	
12.45-14.00	LUNCH	

14.00-16.00	Room 1 S2: Entrainment by photic cues	Room 2 S9: Regulation of pineal melatonin synthesis: new twists to an old story
14.00-14.20	Chairwoman: A. Sumova (Czech Republik): Introduction	Chairman: J. Stehle (Germany): Introduction
	Conferences	Conferences
14.20-14.45	F. Rouyer (France): PDF-modulated visual inputs and Cryptochrome define diurnal behavior in Drosophila	Y. Gothilf (Israel): Pineal function and development: Lessons from zebrafish
14.45-15.10	D. Whitmore (UK): The clock control of cell cycle events and cell communication in zebrafish cells	J. Falcon (France): Fish pineal, a model to study melatonin biosynthetic pathways
	Short communications	Short communications
15.10-15.25	G. Vatine (Israel): The molecular mechanism underlying light regulation of the zebrafish Period2 gene	E. Maronde (Germany): Novel aspects of melatonin synthesis regulation in the human pineal gland
15.25-15.40	D.R. Van der Veen (UK): The role of light in the circadian phenotype of PER3 deficient mice	P. Wongchitrat (Thailand): The rat pineal hosts an endogenous clock whose elements are differentially regulated by noradrenalin
15.40-15.55	K. Schöttner (Germany): Parametric light effects on circadian activity rhythms in Djungarian hamsters	E. Velarde (Spain): Arylalkylamine N-acetyltransferase 2 in goldfish (Carassius auratus): cDNA cloning and rhythmic expression in central and peripheral tissues
16.00-17.30	COFFEE BREAK + POSTER SESSION	
17.30-18.30	LE10: PLENARY LECTURE Chairwoman: J. Arendt (UK) F. Lévi (Villejuif, France) Clocks, cancer and chronotherapy	
19.00-20.30	MEETING OF THE EBRs COUNCIL Location: Centre de Neurochimie	

Monday, August 24

08.30-09.30	LE8: PLENARY LECTURE Chairwoman: M. Merrow (The Netherlands) T. Kondo (Nagoya, Japan) Kai protein oscillator and cyanobacterial circadian clock	
9.00-10.00	COFFEE BREAK	
10.00-12.00	Room 1 S10: Melatonin: modes of action (part 1)	Room 2 S3: Entrainment by non-photic time cues
10.00-10.20	Chairwoman: M. Dubocovich (USA): Melatonin receptors: new research directions	Chairwoman: S. Honma (Japan): Non-photic time cues and animal life: photic cue is not almighty
	Conferences	
10.20-10.45	R. Jockers (France): Regulation of the melatonin receptors by associated protein complex	E. Challet (France): Food as synchronizer
10.45-11.10	P. Froguel (France, Canada): Is MTNR1B (MT2) the link between circadian rhythms and glucose homeostasis?	K Tomioka (Japan): Phase regulation of the Drosophila circadian system by light and temperature
	Short communications	
11.10-11.25	C. Legros (UK): The cerebrospinal fluid, source of melatoninergic physiological signal to the brain: demonstration by brain imaging	A. Klarsfeld (France): Light and temperature produce distinct entrainment patterns in the circadian clock network of the Drosophila larval brain

11.25-11.40	C. Barriga-Montoya (Mexico): Melatonin and pigment dispersing hormone induce circadian time dependent effect in excitability of photoreceptor cells in crayfish: a comparative study	Y. Yamanaka (Japan): Nonphotic time cues phase-dependently accelerate phase-shifts of mouse peripheral clocks
11.40-11.55	S.Y.W .Shiu (China): Involvement of Gas and Gαq proteins in melatonin-induced prostate epithelial cell antiproliferation	M. Ángeles-Castellanos (Mexico): Food time or scheduled melatonin induces rapid re-entrainment after a 6 hours phase advance
12.00-14.00	LUNCH or S20: LUNCHEON SYMPOSIUM Personalized Chronotherapeutics: TEMPO and beyond Chairman: C. Focan (Belgium)	
14.00-16.00	Room 1 S4: Clocks in model species	Room 2 S11: Melatonin: modes of action (part 2)
14.00-14.20	Chairman: T. Roenneberg (Germany): Entrainment in Homo sapiens and other model species	Chairman: R.J. Reiter (USA): Melatonin: multiplicity of actions in neutralizing free radicals and related reactants
	Conferences	
14.20-14.45	P. Más (Spain): A molecular connection between hormone signalling and the Arabidopsis circadian clock	J.A. Boutin (France): Melatonin binding sites: MT3 is QR2: facts and consequences
14.45-15.10	A. Loudon (UK): Targeting CK1δ as the principal regulator of PER-mediated circadian timing in mammals	B. Malpoux (France): “Physiological concentrations” of melatonin: what does it mean?
	Short communications	Short communications
15.10-15.25	C. Weiss-Schaber (France): Zeitgeber response of the circadian clock in cyanobacteria inferred by the phase oscillator model	R.P. Markus (Brazil): Endothelial cells (EC) cultures are preconditioned by environmental lighting, melatonin (MEL) and lipopolysaccharide (LPS) treatment
15.25- 15.40	F. Corellou (France): Functional analysis of the TOC1 and CCA1 master plant-clock genes in the photosynthetic picoeucaryote Ostreococcus reveals similarities and divergences in the molecular regulations of “green” clocks	E. Kostovski (Norway): Melatonin stimulates endothelial release of tissue factor pathway inhibitor in vitro
15.40-14.55	Z. Chen-Eelderink (The Netherlands): A circadian clock in Saccharomyces cerevisiae	B. Claustrat (France): Do time of day and genetics influence melatonin pharmacokinetics?
16.30-17.30	COFFEE BREAK + POSTER SESSION	
17.30-18.30	LE2: THE AXELROD LECTURE Chairman: D.C. Klein (USA) T. Ho (Alberta, Canada): The role of aurora kinase and salt-inducible kinase in the transcription of Aa-nat	
19.00-20.30	ASSEMBLEE GENERALE DE LA SOCIETE FRANCOPHONE DE CHRONOBIOLOGIE Lieu : Centre de Neurochimie	

Tuesday, August 25

08.30-09.30	LE5: PLENARY LECTURE Chairman: M.H. Hastings (UK) U. Schibler (Geneva, Switzerland): Genetic, biochemical and behavioural analysis of clock controlled genes	
09.30-10.00	COFFEE BREAK	
10.00-12.00	Room 1 S5: Exploring spatiotemporal organization of SCN circuits	Room 2 S8: Interplay between circadian clocks and metabolism
10.00-10.20	Chairwoman: R. Silver (USA): Individual neurons form nodes making up circuits that repeat a daily sequence of activity to produce the SCN master clock	Chairman: S. Shibata (Japan): Introduction
	Conferences	
10.20-10.45	E. Maywood (UK): Peptidergic signalling in the circadian oscillator	C. Escobar (Mexico): Food and circadian organization: motivation versus metabolic cues
10.45-11.10	J. Meijer (The Netherlands): Synchronization among SCN neurons determines the phase shifting capacity of the SCN and the amplitude of the rhythm	C.B. Green (USA): Nocturnin is a circadian regulator of lipid uptake
	Short communications	
11.10-11.25	M.D.C. Belle (UK): Daily electrical silencing in the mammalian circadian clock	C.X. Yi (The Netherlands): Possible involvement of the hypothalamic VIP and PACAP projection systems in the circadian control of hepatic glucose production via the autonomic nervous system
11.25-11.40	D. Ono (Japan): Circadian firing rhythms in Cry1/Cry2 double-deficient mice in the cultured suprachiasmatic nucleus	S.M.T. Wehrens (UK): Effect of total sleep deprivation on postprandial responses in shift workers and non-shift workers
11.40-11.55	C. Girardet (France): Daily remodelling of synapses in the suprachiasmatic nucleus	D.T. Otway (UK): Circadian rhythmicity in murine pre-adipocyte and adipocyte cells
12.00-14.00	LUNCH or S17: LUNCHEON SYMPOSIUM: Clocks and Sleep (Room 1) <i>Joint workshop between the EBRS and ESRS</i> Chairmen: C. Bassetti (Switzerland) and H.W. Korf (Germany)	
12.00-12.30	P. Franken (Switzerland): Genetics and sleep	
12.30-13.00	C. Cajochen (Switzerland): Circadian and homeostatic regulation of human sleep	
13.00-13.30	N. Zisapel (Israel): Melatonin, sleep and sleep disturbance	
13.30-14.00	F. Scheer (USA): Sleep, circadian timing and cardiovascular functioning	
14.00-16.00	Room 1 S14: Links between circadian clocks, clock genes and diseases	Room 2 S6: Organization of the hierarchical multi-oscillator system in the suprachiasmatic nucleus
14.00-14.20	Chairwoman: D.J. Skene (UK): Role of clock genes in the regulation of human sleep	Chairman: K.I. Honma (Japan): Introduction
	Conferences	
14.20-14.45	D. Gauguier (UK): Role of clock genes in type 2 diabetes and hypertension	J. Hannibal (Denmark): Synchronization engineering: Role of neuropeptides
14.45-15.10	T. Bourgeron (France): Abnormal synaptic homeostasis in autism spectrum disorders	H. Kori (Japan): Effects of intercellular communication on the entrainment to time cues

	Short communications	
15.10-15.25	K.V. Allebrandt (Germany): Meta-analysis of genome-wide association data on the circadian and sleep phenotypes of 7 European populations	Y. Shigeyoshi (Japan): Two distinct oscillators in the suprachiasmatic nucleus
15.25-15.40	J.E. Gibbs (UK): A role for REV-ERBα in pulmonary inflammation	G.A. Oda (Brazil): Forced desynchronization revisited: modeling SCN neuronal population networks
15.40-15.55	S. Perreau-Lenz (Germany): Differential involvement of the mPer1 gene in the development of morphine dependence	S. Michel (The Netherlands): Mechanism of coupling between bilaterally paired suprachiasmatic nuclei
16.00-17.30	COFFEE BREAK + POSTER SESSION	
17.30-18.30	LE9: PLENARY LECTURE Chairwoman: H. Illnerova (Czech Republic) S. Reppert (Boston, USA): The migratory clock in monarch butterflies	
19.15-20.00	RECEPTION BY THE CITY OF STRASBOURG. Pavillon Josephine, Parc de l'Orangerie	

Wednesday, August 26

08.30-09.30	LE7: Plenary lecture Chairwoman: C. Helfrich-Förster (Germany) M. Rosbash (Waltham, USA): Neural circuitry, circadian rhythms and sleep in Drosophila
09.30-10.00	Coffee break
10.00-12.00	Room 1 S18: The young researcher awards symposium Chairman: H.W. Korf (Germany), R Foster (UK)
10.00-10.30	Young Investigator Award of the Japanese Society for Chronobiology W. Nakaruma (Japan): Circadian output in the suprachiasmatic nucleus
10.30-11.00	Young Investigator Award of the European Biological Rhythms Society A. Herwig (UK): Tanycytes: the interface between photoperiod and the hypothalamus
11.00-11.30	Young Investigator Award of the French speaking Society of Chronobiology J. Mendoza (France): Food (reward) signalling in the circadian system
11.30-12.00	Young Investigator Award given by the organising committee S. Yasuo (Germany): Identification of an endocannabinoid system in the hypothalamic pars tuberalis of the Syrian hamster: its possible role for seasonal prolactin secretion
12.00-13.00	POSTER SESSION
13.00-14.30	LUNCH
19.00	Departure by buses for Banquet During banquet LE12: BANQUET LECTURE J. Arendt (UK): Pineal, melatonin and biological rhythms: a European perspective

Thursday, August 27

08.30-09.30	LE3: The Gwinner lecture Chairman: S. Daan (The Netherlands) G. Lincoln (Edinburgh, UK): Does a circannual pacemaker exist?	
09.30-10.00	COFFEE BREAK	
10.00-12.00	Room 1 S16: Ageing and the circadian system	Room 2 S12: Seasonal timing
10.00-10.20	Chairman: D.F. Swaab (The Netherlands): Validation of animal-model circadian-system changes in aging for human brain disorders	Chairman: P. Morgan (UK): Seasonal timing: a little more spice!
	Conferences	
10.20-10.45	E.J.W. van Someren (The Netherlands): Effects of the aging biological clock and treatment in demented elderly	J. Balthazart (Belgium): Interactions among steroids, photoperiod and social stimuli in the regulation of the avian song control system
10.45-11.10	F. Aujard (France): The circadian system: a biomarker of aging and a potential target for anti-aging actions	R.J. Nelson (USA): Seasonal changes in vertebrate immune function
	Short communications	Short communications
11.10 -11.25	A Jagota (India): Aging affects neural regulation of clock	S.M. Dupré (UK): Photoperiodism in mammals: what are the long day signals?
11.25-11.40	L. Pagani (Switzerland): Human molecular circadian rhythms and ageing	S. Chalivoix (France): Photoperiod induces morphological reorganization within several hypothalamic regions controlling the reproductive function in the ewe
11.40-11.55	D. Hicks (France): Coordinated rhythmic retinal phagocytosis is lost during ageing in humans	S. Monecke (France): Circannual phase response curves to short and long photoperiod in the European hamster
12.00-14.00	LUNCH or S21: LUNCHEON ROUND TABLE Food-entrainment: current controversies and recent progress Chairman: R. Mistlberger (Canada) 1. Molecular mechanisms: D. Bechtold (UK), E. Challet (France), K.F. Storch (Canada), W. Nakamura (Japan) 2. Neural and peripheral mechanisms: R. Buijs (Mexico), M. Menaker (USA), S. Shibata (Japan), R. Silver (USA) 3. Regulatory properties: C. Escobar (Mexico)	
14.00-16.00	Room 1 S13: Molecular mechanisms controlling vertebrate seasonal functions	Room 2 S15: Circadian rhythm disorders: from sleep problems to psychiatric troubles
14.00-14.20	Chairman: S. Ebihara (Japan): Introduction	Chairwoman: A. Wirz-Justice (Switzerland) Introduction
	Conferences	
14.20-14.45	T. Yoshimura (Japan): Molecular mechanisms of seasonal reproduction in birds and mammals	P.C. Zee (USA): Psychiatric co-morbidities in delayed sleep phase disorder and evening types
14.45-15.10	V. Simonneaux (France): Kiss-1 and RFRP: new hypothalamic genes for the seasonal control of reproduction	T. Takumi (Japan): Molecular interaction between circadian rhythm and mood disorders
	Short communications	Short communications
15.10-15.25	P. Barrett (UK): DmpARC neurons are activated by short day photoperiod in the brain of Siberian hamsters	G. Dispersyn (France): Impact of bright light therapy as a possible countermeasure against disruption of the rest-activity rhythm induced by general propofol anesthesia: preliminary results

15.25-15.40	D.A. Bechtold (UK): Torpor in mice lacking the melatonin-related receptor, GPR50	E. Ortiz-Tudela (Spain): A new integrated index, based on thermometry, actimetry and body position (TAP) to evaluate circadian system status in human
15.40-15.55	P. Vuillez (France): Gene expression in the suprachiasmatic nuclei and the photoperiodic time measurement	C. Gronfier (France): Beyond blue light: from circadian photoreception to light therapies
16.00-16.30	COFFEE BREAK	
16.30-17.30	GENERAL ASSEMBLY OF THE EBRs	
17.30-18.30	LE6: PLENARY LECTURE Chairman: M. Menaker (USA) D. Hazlerigg (Aberdeen, UK): Photoperiodic signalling through melatonin: molecular decoding	

Friday, August 28

08.30-09.30	L11: PLENARY LECTURE Chairwoman: B. Guardiola (Courbevoie, France) H. Okamura (Kobe, Japan): Molecular links between the circadian clock
09.30-10.00	COFFEE BREAK
10.00-12.00	HOT TOPIC SYMPOSIUM (Room 1) Chairman: M.H. Hastings (UK)
10.00-10.30	A. Davidson (USA): Fatal effects of an immune challenge following repeated phase shifts
10.30-11.00	J. Menet (USA): From “on to off” DNA: a dynamic mechanism for PER repression in the Drosophila circadian clock
11.00-11.30	C. Merlin (USA): The antennae are necessary for the proper timing of sun compass orientation in migratory monarch butterflies
11.30-12.00	J. Olcese (USA): Reduced cognitive deficits and neurodegenerative indices after long-term melatonin treatment of Alzheimer transgenic mice
12.00-12.15	CLOSURE OF THE MEETING
12.15	LUNCH