XI. Congress of the European Biological Rhythms Society

Strasbourg, France
August 22-28, 2009

In association with
the Japanese Society for Chronobiology

International Scientific Committee:
Paul Pévet, Chairman (Strasbourg, F), Shizufumi Ebihara (Nagoya, J),
Carolina Escobar (Mexico DF, M), Russell Foster (Oxford, UK),
Ken-Ichi Honma (Hokkaido, J), Andries Kalsbeek (Amsterdam, NL),
David Kennaway (Adelaide, A), Horst-Warnier Korf (Frankfurt/Main, G),
Hitoshi Okamura (Kobe, J), François Rouyer (Gif sur Yvette, F),
William Schwartz (Worcester, USA), Shigenobu Shibata (Tokyo, J),
Rae Silver (New York, USA), Debra Skene (Guildford, UK),
Jörg H. Stehle (Frankfurt/Main, G), Alena Sumova (Praha, Czech Republic).

Local Organising Committee:
Paul Pévet (Chairman), Patrice Bourgin,
Béatrice Bothorel, Etienne Challet,
Marie-Paule Felder-Schmittbuhl,
David Hicks, Mireille Masson-Pévet,
Valérie Simonneaux.

If you are interested in participating and would like to receive more information, please contact:
Dr. P. Nivet - Department of Neurobiology of Rhythms, Institute for Cellular and Integrative Neuroscience,
52 rue Broussais, 68015 Strasbourg, France.
E-mail: ebrs2009@neurochim.u-strasbg.fr
Phone: (33) 3 88 45 66 05 Fax: (33) 3 88 45 66 54.
For further information, see also: http://ebrs2009.u-strasbg.fr
XI. Congress of the European Biological Rhythms Society
In association with the
Japanese Society for Chronobiology
August 22-28, 2009: Strasbourg, France

PROGRAMME

The meeting will be structured around plenary lectures, poster sessions, hot topics sessions, a young investigator awards symposium and scientific symposia.

The latest data on the molecular aspects of our field will be highlighted within the plenary lectures.

The aim of the meeting is to provide a fresh perspective on old questions, with a judicious balance between “classical” approaches and new ideas, concepts and views. This will be the role devoted specifically to symposia.

For each symposium, a specialist has been invited as Chairperson. She/he will be responsible for introducing the topic by a short introductory lecture in which she/he will present the state of the art of the topic, as well as pinpointing important questions that remain to be answered.

For each symposium, 2 invited speakers, selected by the international scientific committee, will be followed by 2-3 communications selected from the abstracts.

Plenary lectures

1. The J. Ariens-Kappers lecture
   R.M. Buijs (Mexico city, Mexico)
   The role of the autonomic nervous system for the transmission and integration of rhythmicity
   Chairman: P. Pévet (France)

2. The Axelrod lecture
   T. Ho (Alberta, Canada)
   Histones in the regulation of melatonin synthesis
   Chairman: D.C. Klein (US)

3. The Gwinner lecture
   G. Lincoln (Edinbourg, UK)
   Does a circannual pacemaker exist?
   Chairman: S. Daan (The Netherlands)

4. The JCS lecture
   J.S. Takahashi (Evanston, US)
   Genetic dissection of the circadian clock in Mammals
   Chairman: K.I. Honma (Japan)

5. U. Schibler (Geneva, Switzerland)
   Genetic, biochemical and behavioural analysis of clock controlled genes
   Chairman: M.H. Hastings (UK)

6. D. Hazlerigg (Aberdeen, UK)
Photoperiodic signaling through melatonin: molecular decoding  
Chairman: M. Menaker (US)

7  
M. Rosbash (Waltham, US)  
The circadian network in non-vertebrates  
Chairwoman: C. Helfrich-Förster (Germany)

8  
T. Kondo (Nagoya, Japan)  
Kai protein oscillator and cyanobacterial circadian clock  
Chairwoman: M. Merrow (The Netherlands)

9  
S. Reppert (Boston, US)  
Clocks and the mystery of migration  
Chairwoman: H. Illnerova (Czech Republic)

10  
F. Lévi (Villejuif, France)  
Clocks, cancer and chronotherapy  
Chairman: D. Blask (US)

11  
H. Okamura (Kobe, Japan)  
Molecular links between the circadian clock and diseases  
Chairwoman: B. Guardiola-Lemaitre (Courbevoie, France)

12  
Banquet lecture  
J. Arendt (UK)  
Melatonin: from its discovery to the present

Symposia

ENVIRONMENTAL CUES AND SYNCHRONIZATION

1  
Photodetection by the circadian system  
Chairman: R. Foster (UK)

  • H.W. Cooper (France): Role of different photoreceptors in circadian photoreception  
  • G.P. Tosini (US): Melatonin modulates visual processing in the mouse retina  
  • 3 lectures selected on the abstracts

2  
Entrainment by photic cues  
Chairwoman: A. Sumova (Czech Republik)

  • F. Rouyer (France): Light and the PDF neuropeptide define diurnal behaviour in Drosophila  
  • D. Whitmore (UK): The impact of light and cell communication on the zebrafish circadian clock  
  • 3 lectures selected on the abstracts

3  
Entrainment by non-photic time cues  
Chairwoman: S. Honma (Japan)

  • E. Challet (France): Food as synchronizer  
  • D. Kennaway (Australia): The 5-HT system as clock input system
CIRCADIAN WORLD

4 Clocks in model species
Chairman: T. Roenneberg (Germany)

5 Exploring spatiotemporal organization of SCN circuits
Chairwoman: R. Silver (US)
- L. Maywood (UK): Peptidergic signalling in the circadian system
- J. Meijer (The Netherlands): Neuronal synchronization and circadian function

6 Organization of the hierarchical multi-oscillator system in the suprachiasmatic nucleus
Chairman: K.I. Honma (Japan)
- H. Kohri (Japan): Effects of intercellular communication on the entrainment to time cues

7 Organization of the mammalian circadian timing system: centrifugal or centripetal
Chairman: W. Schwartz (US)
- A. Kalsbeek (The Netherlands): SCN neuronal outputs as mediators of peripheral circadian structures: functions
- H. Piggins (UK): Circadian oscillators in extra-SCN brain sites

8 Interplay between circadian clocks and metabolism
Chairman: S. Shibata (Japan)
- C. Escobar (Mexico): Food and circadian organization: motivation versus metabolic cues
- C.B. Green (US): Nocturnin and food metabolism

MELATONIN

9 Regulation of pineal melatonin synthesis: new twists to an old story
Chairman: J. Stehle (Germany)
- ......
J. Falcon (France): Fish pineal, a model to study melatonin biosynthetic pathways
- 3 lectures selected on the abstracts

10 Melatonin: modes of action (part 1)
Chairwoman: M. Dubocovich (US)
- R. Jockers (France): regulation of the melatonin receptors by associated protein complexe
- P. Froguel (France, Canada): Is the MT2 gene the link between circadian rhythms and glucose homeostasis?
- 3 lectures selected on the abstracts

11 Melatonin: modes of action (part 2)
Chairman: R.J. Reiter (US)
- J.A. Boutin (France): Melatonin binding sites: MT3 is QR2. Facts and consequences
- B. Malpaux (France): “Physiological concentrations” of melatonin: what does it mean?
- 3 lectures selected on the abstracts

SEASONALITY, PHOTOPERIODISM

12 Seasonal timing
Chairman: P. Morgan (UK)
- J. Balthazart (Belgium): Interaction of steroids and photoperiod in the control of song in songbirds
- R.J. Nelson (US): Seasonal changes in vertebrate immune function
- 3 lectures selected on the abstracts

13 Molecular mechanisms controlling vertebrate seasonal functions
Chairman: S. Ebihara (Japan)
- T. Yoshimura (Japan): Molecular mechanisms of photoperiodic time measurement in birds
- V. Simonneaux (France): Kiss-1 and RFRP: new hypothalamic genes for the seasonal control of reproduction
- 3 lectures selected on the abstracts

WHEN CLOCKS GO WRONG: HEALTH CONSEQUENCES OF DISRUPTED CIRCADIAN TIMING

14 Links between circadian clocks, clock genes and diseases
Chairwoman: D.J. Skene (UK)
- D. Gauthier (UK): Role of clock genes in type 2 diabetes and hypertension
- W.J.M. Hrushesky (US): Role of molecular clocks and clock genes in cancer
3 lectures selected on the abstracts

15 **Circadian rhythm disorders: from sleep problems to psychiatric troubles**
Chairwoman: A. Wirz-Justice (Switzerland)

- D.B. Boivin (Canada): Circadian disturbances in psychiatric disorders
- T. Takumi (Japan): Spine biology in psychiatric diseases
- 3 lectures selected on the abstracts

16 **Ageing and the circadian system**
Chairman: D.F. Swaab (The Netherlands)

- J. van Someren (The Netherlands): Chronic melatonin and light treatment in demented elderly
- F. Aujard (France): Age-related effects on the biological clock and its behavioural output in a non human primate
- 3 lectures selected on the abstracts

17 **Clocks and Sleep**
*Joint workshop between the European Biological Rhythms Society and The European Sleep Research Society (ESRS)*
Chairman: C. Bassetti (Switzerland)

- P. Franken (Switzerland): Genetics and sleep
- C. Cajochen (Switzerland): Circadian and homeostatic regulation of human sleep
- N. Zisapel (Israel): Melatonin, sleep and sleep disturbance
- F. Scheer (USA): Sleep, circadian timing and cardiovascular functioning

**DIVERSE**

18 **The young researcher awards symposium**
Chairman: H.F. Korf (Germany)

19 **Hot topic symposium**  
*imported new data published within the following months, selected for this symposium by the chairperson*
Chairman: M.H. Hastings (UK)
Speakers to be selected just before the meeting

**Luncheon workshops**

1 **Personalized Chronotherapeutics: TEMPO and beyond**
*TEMPO (Temporal genomics for tailored chronotherapeutics) is a Specific targeted research project funded by the 6th framework Programme (LSHG-CT). The workshop will emphasize the clinical relevance of the latest research findings regarding the personalization of cancer chronotherapeutic.*
Chairman: S. Lacobelli

2 **Food-entrainment: current controversies and recent progress**
Round table with participants of the meeting
Chairman: R. Mistlberger (Canada)

Poster sessions

Very active poster sessions will be organized.
The following topics have been selected:

1. Clock Genetics, Molecular Mechanisms, Generation and Synchronization of Circadian Rhythm;
2. Visual and Circadian Photoreception, Non-Photic Cues;
3. Suprachiasmatic Nuclei, Pacemakers, Clocks and Peripheral Oscillators;
4. The multi-oscillatory nature of the circadian network;
5. Output Pathways of the main Circadian Clock;
6. Diurnality versus Nocturnality;
7. Pineal Cell Biology;
8. Melatonin: Receptors and Actions;
9. Brain, Energy Metabolism and Rhythms;
11. Clocks in Real Life. Sleep. Shift-work;