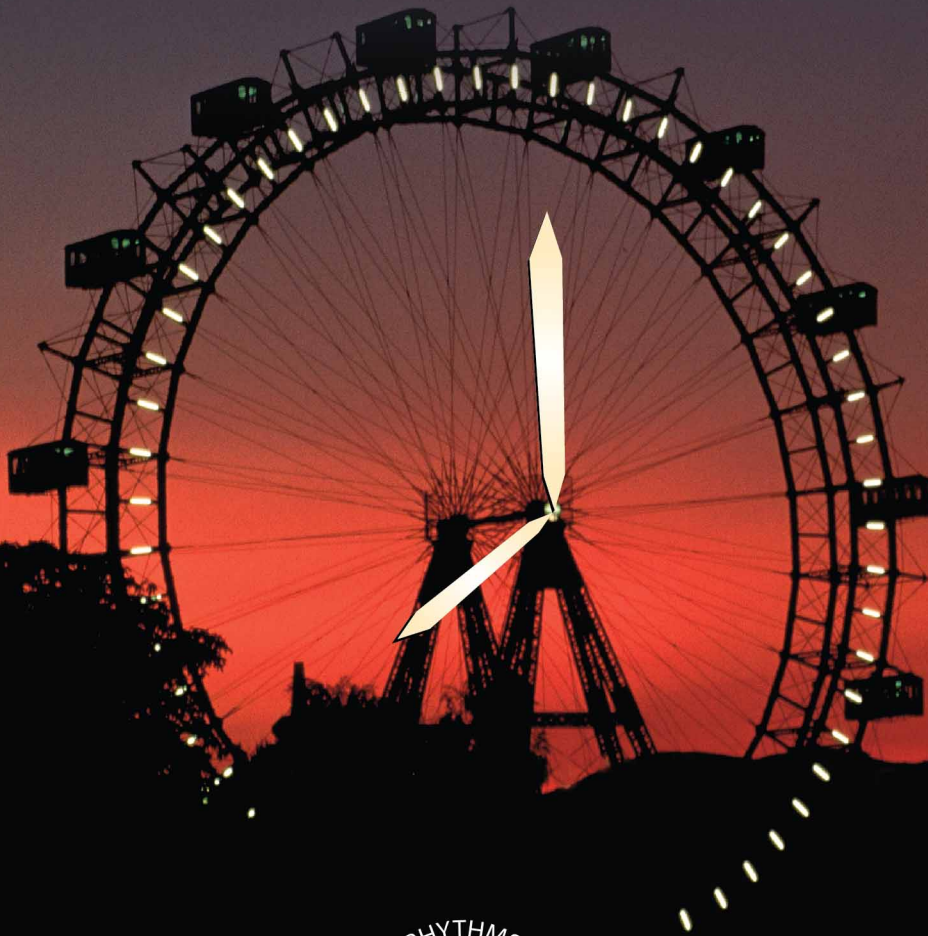


Vienna, May 8-10, 2016

Time and Light:  
Novel Concepts and Models  
in Sensory and Chronobiology



universität  
wien

StadT  Wien

ÖAW

AUSTRIAN  
ACADEMY OF  
SCIENCES

  
JACQUES LEMANS



## Venue

Registration and all scientific presentations will take place at the ground level of the Institute of Molecular Biotechnology (IMBA) Dr. Bohrgasse 3, 1030 Vienna, Austria. Please wear your name badges visibly during the meeting, as they will serve to identify you as participants. This is relevant for access to the building during Sunday, and also for lunch and dinner. The helpdesk at the ground floor will be available during the meeting for any particular inquiries.



Location of the Institute of Molecular Biotechnology (IMBA), indicated by the red arrowhead. The map also shows nearby stops for trains (St. Marx/Vienna Biocenter), subway (U3, stop Schlachthausgasse), bus (line 74A, stop Viehmarkt-gasse or St. Marx), and tram (lines 71 or 18, stop St. Marx).

The location can be easily reached by public transport, and is only 20 minutes from the Airport Vienna at Schwechat. For directions, see map or <http://timelight.univie.ac.at/venue/how-to-get-there/>

## Logistics

Free WLAN access through an *education roaming (eduroam)* network will be provided at the meeting site. If your home institution is part of *eduroam*, you can use your usual credentials to login. In addition, you will find vouchers for access with your name tag.

Presentations are scheduled with 30 minutes + 5 minutes of questions (20+5 for speakers during Monday morning). Speakers can connect their laptops using VGA or HDMI connections, and computers should be connected latest preceding the respective sessions. If you require help with connecting your computer, or prefer to transfer your presentation to a local computer, please indicate this at the registration desk in advance.

Posters can be put up already after registration in the registration area.

Presenters are asked to be at their poster during the poster session on Monday afternoon. A selection committee will select one poster for the Jacques Lemans poster award. The winner will be announced on Tuesday noon, and will receive a cash prize.

## Programme

Sunday, May 8<sup>th</sup>

**Registration: 1pm-2pm**

### **Session 1 :: The importance of light and time for human biology**

Chair: Thomas Hummel

- 2pm – 2:35pm      **Till Roenneberg** (Institute of Medical Psychology at LMU Munich, Germany)  
*The Human Sleep Project – Studying Sleep and Circadian Rhythms in the Field*
- 2:40pm – 3:15pm      **Christian Cajochen** (Centre for Chronobiology, Psychiatric Hospital of the University of Basel, Switzerland)  
*Can light make us bright? Non-visual effects of light on cognition and sleep*
- 3.20pm – 3:55pm      **Martha Merrow** (Institute of Medical Psychology at LMU Munich, Germany)  
*Zeitgeber cycles and neurodegeneration pathologies: the circadian clock and protein aggregates*

-- coffee break --

### **Session 2 :: Light and Timers: What we learn from vertebrate systems**

Chair: Florian Raible

- 4:10pm- 4:45pm      **Davide Dulcis** (Department of Psychiatry, UCSD, San Diego, USA)  
*Light-induced neurotransmitter plasticity affecting behavior*
- 4:50pm-5:25pm      **Nick Foulkes** (Institute of Toxicology and Genetics, KIT, Karlsruhe, Germany)  
*Evolution and function of light sensing in fish*

-- coffee break --

### **Session 3 :: Once upon a Time in the Oceans**

Chair: Kristin Tessmar-Raible

- 5:40pm- 6:15pm      **Angela Falciatore** (UMR 7238 CNRS-UPMC, Laboratory of Computational and Quantitative Biology, Paris, France)  
*Unraveling diatom circadian clock architecture and function*
- 6:20pm- 6:55pm      **Oren Levy** (Faculty of Life Sciences, Bar Ilan University, Ramat Gan, Israel)  
*Some tales about biological clocks and cnidarians*
- 7-7:35pm              **Charalambos Kyriacou** (Department of Genetics, University of Leicester, Leicester, UK)  
*Molecular basis for circadian and tidal rhythms in an intertidal crustacean*

-- dinner (8pm) --

## Monday, May 9<sup>th</sup>

### Session 4 :: The Research Platform "Rhythms of Life"

Chair: Martha Merrow

- 9am–9:35am      **Kristin Tessmar-Raible**  
*The Research Platform (Marine) Rhythms of Life – Past and Future*
- 9:40am- 10:05am      **Tobias Kaiser** (Tessmar-Raible/ von Haeseler/ Hummel)  
*From genome to function:  
Timing adaptations in the intertidal insect *Cunio marinus**
- 10:10am- 10:35am      **Birgit Poehn** (Tessmar-Raible/Hummel/von Haeseler)  
*A molecular basis for circadian timing variations*

--- coffee break ---

Chair: Charalambos Kyriacou

- 11:00am-11:25am      **Stephanie Bannister** (Tessmar-Raible/Raible/ von Haeseler)  
*Illuminating molecular changes in circalunar reproductive timing:  
A transcriptomics approach in *Platynereis dumerilii**
- 11:30-11:55am      **Sven Schenk** (Raible/Gerner)  
*To breed, or not to breed, that is the question:  
Identification of the annelid brain hormone*
- 12pm-12:25pm      **Samuel Meier** (Gerner/ Raible)  
*Reproducible quantification of metabolites from fingertips  
via triple-quadrupole mass spectrometry*

--- lunch break ---

Chair: Angela Falciatore

- 1:30pm- 1:55pm      **Vinoth Babu Veedin Rajan** (Tessmar-Raible/ Straw)  
*How do worms sense sun and moon?*
- 2pm- 2:25pm      **Roger Revilla-i-Domingo** (Raible/ von Haeseler)  
*A cell type-specific sequencing approach sheds light on the possible function  
and evolution of opsin-positive cells outside the eye*
- 2:30pm 2:55pm      **Bruno Fontinha** (Tessmar-Raible/von Haeseler/Straw)  
*Unravelling new functions of an ancient vertebrate opsin*
- 3pm 3:25pm      **Max Hofbauer** (Tessmar-Raible/ Raible/ Hummel/ Straw)  
*Advancing behavioural analyses*
- 3:30pm –      *Internal meeting Research Platform (PIs and evaluation board)*

**Poster session**

3:30pm – 4:45pm

**Trip through the Vienna woods and vineyards (for participants)**

5pm – 7:45pm

*A bus will leave at 5pm at the venue; if weather permits, the trip will include a hike through the woods and vineyards (1-1.5h walking time)*

*Please have your badges ready for the bus as well as the restaurant*

**Mayor's Reception and Dinner**

7:45pm – 10:15pm

Mayor's reception at the Heuriger "'s Pfiff", Rathstraße 4, 1190 Vienna

10:15pm

Bus transport back to the meeting venue

## Tuesday, May 10<sup>th</sup>

### Session 5 :: On the importance of diverse rhythms and clocks

Chair: Nick Foulkes

- |                      |  |
|----------------------|--|
| 9am-9:35am           | <b>Martha Merrow</b> (Institute of Medical Psychology at LMU Munich, Germany)<br><i>tba</i>  |
| 9:40am- 10:05am      | <b>Kim Last</b> (Scottish Association for Marine Science, Oban, United Kingdom)<br><i>Were the sun doesn't shine: Moonlight drives ocean scale mass vertical migration of zooplankton during the Arctic winter</i>                                 |
| 10:20am- 10:45am     | <b>Mathias Teschke</b> (Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany)<br><i>Biological Timing in Antarctic Krill: Endogeneous clocks and physiological rhythms at the daily and annual scale</i> |
| --- coffee break --- |  |
| 11:00am-11:25am      | <b>Akihiro Takemura</b> (University of the Ryukyus, Okinawa, Japan)<br><i>Possible involvement of moonlight in lunar-phase perception in tropical fish with lunar spawning cycle</i>   |
| 11:30-11:55am        | <b>David Wilcoxon</b> (Aberystwyth University, Aberystwyth, United Kingdom)<br><i>Evidence for separate sun and moon compass mechanisms in the beach amphipod Talitrus saltator</i>  |
| 12:00pm              | <b>Jacques Lemans Poster Award</b>   |
| 12:10pm              | <b>Kristin Tessmar-Raible</b><br><i>Concluding remarks</i>   |

--- lunch and good bye ---