

## LIFE SCIENCE MINI-SYMPOSIUM

FRIDAY, September 17, 2010

### Coffee and Croissants

08:30

<b>Frédéric Gachon</b> University Lausanne	<b>Chair - Welcome</b>	<b>09:00</b>
<b>Jurgen Ripperger</b> Fribourg University	“Circadian regulation of the liver metabolism”	<b>09:15</b>
<b>Joe Bass</b> Northwestern University	“Clock Genes in Behavior and Insulin Secretion”	<b>10:00</b>
<b>Dmitri Firsov</b> Lausanne University	<b>Chair - Break</b>	<b>10:45</b>
<b>Etienne Challet</b> CNRS Strasbourg	“Synchronisation of the circadian timing system by feeding cues”	<b>11:00</b>
<b>Dmitri Firsov</b> Lausanne University	“Circadian regulation of renal function”	<b>11:45</b>

### Lunch

12:30

<b>Workshop</b>	Workshop with the invited speakers and the PhD students of the CVM. This workshop is also open to those interested in the topics.	<b>14:30</b>
<b>Preliminary work</b>	Preliminary work to be done by the PhD students of the CVM. <b>The students have to read the eight proposed papers</b> , (see below) they will be discussed in details with the speakers.	

### End of Mini-Symposium

16:30

**Dinner** **19:00**  
**Speakers and PhD students of the CVM**  
**are cordially invited to join.**

# Papers for discussion

---

- 1) Markus Stratmann, Frédéric Stadler, Filippo Tamanini, Gijsbertus T.J. van der Horst, & Jürgen A. Ripperger. Flexible phase adjustment of circadian albumin D site-binding protein (Dbp) gene expression by CRYPTOCHROME1.  
***GENES & DEVELOPMENT 24:1317-1328 (2010)***
- 2) Isabelle Schmutz, Jürgen A. Ripperger, Stéphanie Baeriswyl-Aebischer, & Urs Albrecht  
The mammalian clock component PERIOD2 coordinates circadian output by interaction with nuclear receptors.  
***GENES & DEVELOPMENT 24:345-357 (2010)***
- 3) Marcheva B, Ramsey KM, Buhr ED, Kobayashi Y, Su H, Ko CH, Ivanova G, Omura C, Mo S, Vitaterna MH, Lopez JP, Philipson LH, Bradfield CA, Crosby SD, Jebailey L, Wang X, Takahashi JS, Bass J. Disruption of the clock components CLOCK and BMAL1 leads to hypoinsulinaemia and diabetes.  
***NATURE 466(7306):627-31 (2010)***
- 4) Ramsey KM, Yoshino J, Brace CS, Abrassart D, Kobayashi Y, Marcheva B, Hong HK, Chong JL, Buhr ED, Lee C, Takahashi JS, Imai S, Bass J.  
Circadian clock feedback cycle through NAMPT-mediated NAD<sup>+</sup> biosynthesis.  
***SCIENCE 324(5927):651-4 (2009)***
- 5) Jorge Mendoza, Paul Pévet, Marie-Paule Felder-Schmittbuhl, Yannick Bailly, & Etienne Challet. The Cerebellum Harbors a Circadian Oscillator Involved in Food Anticipation  
***JOURNAL OF NEUROSCIENCE 30(5):1894-1904 (2010)***
- 6) Jorge Mendoza, Paul Pévet and Etienne Challet  
High-fat feeding alters the clock synchronization to light  
***J. PHYSIOL 586 (24) 5901-5910 (2008)***
- 7) Annie Mercier Zuber, Gabriel Centeno, Sylvain Pradervand, Svetlana Nikolaeva, Lionel Maquelin, Léonard Cardinaux, Olivier Bonny, & Dmitri Firsov.  
Molecular clock is involved in predictive circadian adjustment of renal function.  
***PROC NATL ACAD SCI USA. 106(38):16523-8 (2009)***
- 8) Masao Doi, Yukari Takahashi, Rie Komatsu, Fumiyoshi Yamazaki, Hiroyuki Yamada, Shogo Haraguchi, Noriaki Emoto, Yasushi Okuno, Gozoh Tsujimoto, Akihiro Kanematsu, Osamu Ogawa, Takeshi Todo, Kazuyoshi Tsutsui, Gijsbertus T.J. van der Horst & Hitoshi Okamura  
Salt-sensitive hypertension in circadian clock-deficient Cry-null mice involves dysregulated adrenal Hsd3b6.  
***NATURE MEDICINE 16(1): 67-74 (2010)***