

Mini-symposium and Educational meeting

“The role of MicroRNA in Cardiovascular and Metabolic Diseases”

**Lausanne, Switzerland, Friday, September 25, 2009
Auditoire Mathias Mayor (CHUV, BH08)**

Organizers : Prof. Dario Diviani, Prof. Thierry Pedrazzini
Enquiries : Mrs Marina Leuba (Marina.Leuba@chuv.ch)

This meeting is free of charge but for organization purposes we would like the participants to register by sending the below registration form to Mrs Marina Leuba at her mail address.

This mini-symposium is accredited by the Swiss Association of Cantonal Veterinarians as half a day of continuing education.

08:30-09:00 (Coffee and croissants)
09:00 Welcome : D. Diviani

Chair: D. Diviani

09:15-10:00 Stéphane Germain (Paris)
“Dicer-dependent RNA interference pathway regulates developmental angiogenesis and lymphangiogenesis”

10:00-10:45 Stefan Engelhardt (Munich)
“MicroRNA-based therapeutics in cardiac disease”

10:45-11:00 Break

Chair: T. Pedrazzini

11:00-11:45 Minoo Rassoulzadegan (Nice)
“RNA-mediated epigenetic heredity: from a white-tipped tail to familial diseases”

11:45-12:30	Romano Regazzi (Lausanne) "Involvement of microRNAs in the development of Type 1 and Type diabetes"
12:30-14:00	Lunch
14:30 – 16:30	Afternoon workshop (see below)
19:00	Dinner. All speakers and PhD students of the CVM are invited to share a dinner.

Afternoon workshop. 14h30 - 16h30

Workshop with the invited speakers and the PhD students of the CVM. Note that this workshop is also open to anyone interested in the topics.

Preliminary work to be done by the PhD students of the CVM: the students have to read the eight proposed papers (see below) they will discuss in detail with the invited speakers.

Papers for discussion:

1- Attribution of vascular phenotypes of the murine *Egfl7* locus to the microRNA miR-126.

Kuhnert F, Mancuso MR, Hampton J, Stankunas K, Asano T, Chen CZ, Kuo CJ. *Development*. 2008 Dec;135(24):3989-93.

2-Dicer-dependent endothelial microRNAs are necessary for postnatal angiogenesis.

Suárez Y, Fernández-Hernando C, Yu J, Gerber SA, Harrison KD, Pober JS, Iruela-Arispe ML, Merkenschlager M, Sessa WC.

Proc Natl Acad Sci U S A. 2008 Sep 16;105(37):14082-7.

3- MicroRNA-21 contributes to myocardial disease by stimulating MAP kinase signalling in fibroblasts.

Thum T, Gross C, Fiedler J, Fischer T, Kissler S, Bussen M, Galuppo P, Just S, Rottbauer W, Frantz S, Castoldi M, Soutschek J, Koteliansky V, Rosenwald A, Basson MA, Licht JD, Pena JT, Rouhanifard SH, Muckenthaler MU, Tuschl T, Martin GR, Bauersachs J, Engelhardt S.

Nature. 2008, 456(7224):980-4.

4- Silencing of microRNAs in vivo with 'antagomirs'.

Krützfeldt J, Rajewsky N, Braich R, Rajeev KG, Tuschl T, Manoharan M, Stoffel M. *Nature*. 2005 Dec 1;438(7068):685-9.

5-RNA-mediated non-mendelian inheritance of an epigenetic change in the mouse.

Rassoulzadegan M, Grandjean V, Gounon P, Vincent S, Gillot I, Cuzin F.

Nature. 2006 May 25;441(7092):469-74.

6-RNA induction and inheritance of epigenetic cardiac hypertrophy in the mouse. Wagner KD, Wagner N, Ghanbarian H, Grandjean V, Gounon P, Cuzin F, Rassoulzadegan M. *Dev Cell*. 2008 Jun;14(6):962-9.

7-miR-375 maintains normal pancreatic alpha- and beta-cell mass. Poy MN, Hausser J, Trajkovski M, Braun M, Collins S, Rorsman P, Zavolan M, Stoffel M. *Proc Natl Acad Sci U S A*. 2009 Apr 7;106(14):5813-8.

8- Identification of glucose-regulated miRNAs from pancreatic {beta} cells reveals a role for miR-30d in insulin transcription. Tang X, Muniappan L, Tang G, Ozcan S. *RNA*. 2009 Feb;15(2):287-93.