



**XXIII<sup>ème</sup> Colloque du Groupe Biologie du Développement  
« GBD 2009 », Nice, October 14-16 2009**

**MicroRNA and small non-coding RNA : new actors in pathophysiology**

**Wednesday October 14**

**12:00 13:45 Registration**

**13:45 14:00 Welcome and introduction  
(B. Mari, V. Atger)**

**14:00 16:00 Session 1 Small non-coding RNAs in development and epigenetics (Chair: Christian DANI)**

<b>14:00 14:45</b>	Minoou RASSOULZADEGAN	RNA and microRNA mediated epigenetic heredity
<b>14:45 15:00</b>	Hélène THOMASSIN-BOURREL	MicroRNA profiling pinpoints to microRNAs essential for Drosophila metamorphosis
<b>15:00 15:15</b>	Fabienne LE PROVOST	Function of microRNAs in mouse mammary gland biology
<b>15:15 15:30</b>	Marcel SCHEIDELER	Identification of microRNA-27b impairing human adipogenesis
<b>15:30 15:45</b>	Ning WU	p63-regulated microRNAs engage in human keratinocyte differentiation
<b>15:45 16:00</b>	Bassam BADRAN	Human natural Treg micro-RNA signature: Role of miR-31 and miR-21 in FOXP3 expression

**16:00 16:30 Coffee break / sponsors expo**

**16:30 19:00 Session 2 Biogenesis and multiple functions of small non coding RNAs (Chair: Jerome CAVAILLE)**

- 16:30 16:45** Roger REZZONICO Identification of a novel microRNA regulator of keratinocyte migration and proliferation in wound healing
- 16:45 17:00** Véronique SALONE Study of the regulation of microRNA production : involvement in chondrogenesis and in chondrocytes dedifferentiation during osteoarthritis
- 17:00 17:15** Eric BARREY Identification of microRNA in human mitochondria
- 17:15 17:30** Brice MARCET Signatures and transcriptomic impact of microRNAs during regeneration of the human airway mucociliary epithelium
- 17:30 17:50** Stephanie FULMER-SMENTEK Sponsor presentation: Microarray profiling of miRNAs in Cancer

**17:50 18:15 Sponsors expo**

- 18:15 19:00** Olivier VOINNET Keynote lecture

**19:00 Welcome cocktail**

**Thursday October 15**

**8:15 10:15 Session 3 miRNA and Cancer 1 (Chair: Bernard MARI)**

- 8:15 9:00** Annick HAREL-BELLAN Small RNAs and control of cell proliferation/differentiation
- 9:00 9:15** Sylvie MAZOYER miR-146: the first identified microRNAs that regulate BRCA1 expression
- 9:15 10:00** Ricardo C. AGUIAR MicroRNA genes and Lymphoma Biology
- 10:00 10:15** Cécile DESJOBBER MiR-29a downregulation in ALK+ Anaplastic Large Cell Lymphomas participates to apoptosis blockade through Mcl-1 overexpression

**10:15 10:45 Coffee break / sponsors expo**

**10:45 12:30 Session 4 microRNAs targets / Bioinformatics (Chair: Karine ROBBE)**

- 10:45 11:30** Anton ENRIGHT Computational Analysis of miRNA function from expression data
- 11:30 12:00** Antony LE BECHEC Meta-regulation networks: combining transcription factor and miRNA regulation

**12:00 12:15** Christophe GROSSET Analysis of post-transcriptional regulations by a functional, integrated and quantitative method  
**12:15 12:30** Taran LIMOUSIN Impact of 5'UTR on regulation of mRNAs translation by miRNAs

**12:30 14:00 Lunch**

**14:00 15:15 Session 5 miRNAs and Cancer 2 (Chair: Bruno CARDINAUD)**

**14:00 14:45** Jean-Christophe MARINE MicroRNA-processing and Tumorigenesis  
**14:45 15:00** Emilie DEJEAN Tumoral regression upon ALK inactivation requires miR-16 to reverse the angiogenic switch  
**15:00 15:15** Jessika WYNENDAELE A SNP in the 3'UTR of the MDMX gene is strongly correlated with decreased overall and disease-free survival in ovarian carcinoma patients in an oestrogen receptor-dependant manner

**15:15 16:45 Session 6 miRNAs in other diseases (Chair: Pascal BARBRY)**

**15:15 16:00** Mara D'ONOFRIO microRNA expression profiling in the AD11 anti-NGF mouse model for Alzheimer's Disease  
**16:00 16:15** Patrick BREST Unexpected role of microRNA in Crohn disease  
**16:15 16:30** Florence APPARAILLY Novel microRNA candidate as blood-based prognostic biomarker for treatment outcome in rheumatoid arthritis  
**16:30 16:45** Kay D. WAGNER RNA induction and inheritance of epigenetic cardiac hypertrophy in the mouse

**16:45 17:15 Sponsors expo**

**17:15 19:05 Session 7 miRNAs as tools and therapeutics (Chair: Paul HOFMAN)**

**17:15 17:30** Sophie CHABOT LNA-based oligos delivery by electropulsation  
**17:30 18:15** Massimo NEGRINI microRNA involvement in human hepatocellular carcinoma  
**18:15 18:30** Sandra LASSALLE MicroRNA signatures can distinguish thyroid tumours of uncertain malignant potential (TT-Ump) from other well-differentiated thyroid (WDT) tumours

**18:30 18:50** Niels M. FRANDBSEN Sponsor presentation: Development of a new LNA Based qPCR Platform for miRNA Analysis in Clinical Formalin Fixed Tissue Samples and Human Blood Plasma Samples

**18:50 19:05** Cécile ORTHOLAN  
Prognostic microRNA signature in early stage lung adenocarcinomas : preliminary results

**20:30 Gala Dinner**

**Friday October 16**

**9:00 10:45 Session 8 miRNAs in infection and immunity (Chair: Alain DOGLIO)**

**9:00 9:45** Monsef BENKIRANE Crosstalk between HIV and RNAi  
**9:45 10:00** Ilka ENGELMANN microRNAs in innate immunity  
**10:00 10:15** Cédric BELAIR Regulation of host microRNAs by bacterial effectors : Helicobacter pylori as a study case model  
**10:15 10:30** Marie-Laure ENDALE Non-coding RNAs revealed during identification of genes involved in Chicken immune responses

**10:30 11:00 Coffee break / sponsors expo**

**11:00 12:30 Session 9 High throughput technologies and non-coding RNAs: from microarrays to deep sequencing (Chair: Rainer WALDMAN)**

**11:00 11:30** Pascal BARBRY From mRNA expression profiling to the exploration of miRNA fates  
**11:30 12:00** Astrid Ferlinz Sponsor presentation: RNA Sequencing on SOLiD  
**12:00 12:15** Constance CIAUDO  
Dynamic changes of sex-specific small RNAs during early differentiation of male and female ES cells  
**12:15 12:30** Maya AMEYAR-ZAZOUA Nuclear role of mammalian Argonaute 1 and 2 Proteins

**12:30 12:45 Closing remarks**

