



**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)**

**14:00 14:45** Minoou RASSOULZADEGAN RNA and microRNA mediated epigenetic heredity

**14:45 15:00** Hélène THOMASSIN-BOURREL MicroRNA profiling pinpoints to microRNAs essential for Drosophila metamorphosis

**15:00 15:15** Fabienne LE PROVOST Function of microRNAs in mouse mammary gland biology

**15:15 15:30** Marcel SCHEIDELER Identification of microRNA-27b impairing human adipogenesis

**15:30 15:45** Ning WU p63-regulated microRNAs engage in human keratinocyte differentiation

**15:45 16:00** Constance CIAUDO Highly dynamic and sex-specific expression of microRNAs during early ES cell differentiation mammalian blastocyst

**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

**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

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

**12:30 14:00 Lunch**

**14:00 15:30 Session 5 miRNAs and Cancer 2 (Chair: Bruno CARDINAUD)**

<b>14:00</b>	<b>14:45</b>	Jean-Christophe MARINE	MicroRNA-processing and Tumorigenesis
<b>14:45</b>	<b>15:00</b>	Marie-Pierre PUISSEGUR	Overexpression of microARN 125B in proB cells leads to a survival advantage and might play a role in certain cases of B acute lymphoblastic leukemia
<b>15:00</b>	<b>15:15</b>	Emilie DEJEAN	Tumoral regression upon ALK inactivation requires miR-16 to reverse the angiogenic switch
<b>15:15</b>	<b>15:30</b>	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 mannersurvival in ovarian carcinoma patients in an oestrogen-receptor dependant manner

**15:30 16:00 Sponsors expo**

**16:00 17:30 Session 6 miRNAs in other diseases (Chair: Pascal BARBRY)**

<b>16:00</b>	<b>16:45</b>	Mara D'ONOFRIO	microRNA expression profiling in the AD11 anti-NGF mouse model for Alzheimer's Disease
<b>16:45</b>	<b>17:00</b>	Patrick BREST	Unexpected role of microRNA in Crohn disease
<b>17:00</b>	<b>17:15</b>	Florence APPARAILLY	Novel microRNA candidate as blood-based prognostic biomarker for treatment outcome in rheumatoid arthritis
<b>17:15</b>	<b>17:30</b>	Kay D. WAGNER	RNA induction and inheritance of epigenetic cardiac hypertrophy in the mouse

**17:30 19:20 Session 7 miRNAs as tools and therapeutics (Chair: Paul HOFMAN)**

<b>17:30</b>	<b>17:45</b>	Sophie CHABOT	LNA-based oligos delivery by electropulsation
<b>17:45</b>	<b>18:30</b>	Massimo NEGRINI	microRNA involvement in human hepatocellular carcinoma

<b>18:30</b>	<b>18:45</b>	Sandra LASSALLE	MicroRNA signatures can distinguish thyroid tumours of uncertain malignant potential (TT-UMP) from other well-differentiated thyroid (WDT) tumours
<b>18:45</b>	<b>19:05</b>	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
<b>19:05</b>	<b>19:20</b>	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)**

<b>9:00</b>	<b>9:45</b>	Monsef BENKIRANE	Crosstalk between HIV and RNAi
<b>9:45</b>	<b>10:00</b>	Ilka ENGELMANN	microRNAs in innate immunity
<b>10:00</b>	<b>10:15</b>	Cédric BELAIR	Regulation of host microRNAs by bacterial effectors : Helicobacter pylori as a study case model
<b>10:15</b>	<b>10:30</b>	Marie-Laure ENDALE	Non-coding RNAs revealed during identification of genes involved in Chicken immune responses
<b>10:30</b>	<b>10:45</b>	Bassam BADRAN	Human natural Treg micro-RNA signature: Role of miR-31 and miR-21 in FOXP3 expression

**10:45 11:15 Coffee break / sponsors expo**

**11:15 12:30 Session 9 High throughput technologies and non-coding RNAs: from microarrays to deep sequencing (Chair: Rainer WALDMAN)**

<b>11:15</b>	<b>11:45</b>	Pascal BARBRY	From mRNA expression profiling to the exploration of miRNA fates
<b>11:45</b>	<b>12:15</b>	Kelli BRAMLETT	Sponsor presentation: RNA Sequencing on SOLiD
<b>12:15</b>	<b>12:30</b>	Maya AMEYAR-ZAZOUA	Nuclear role of mammalian Argonaute 1 and 2 Proteins

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

