

The activity of non-genetic factors early in life that result in the permanent organization or imprinting of physiological systems is known as perinatal "programming". These epigenetic insights offer new therapeutic avenues for exploration. Epigenetics also provides a means by which genetic material can respond to changing environmental conditions.

The environment can thus prompt epigenetic changes that affect future generations. Stressors occurring during critical periods of development such as perinatal life may thus play on those epigenetic mechanisms, changing the phenotype of an individual. Epigenetic gene regulation through DNA methylation and histone modifications has been shown to be a crucial mechanism for the development and function of the nervous system, ranging from cell differentiation to neuronal plasticity, from learning and memory to behaviour. Consequently, the deregulation of the epigenome could be associated with various neuropsychiatric disorders.

Aim of this Symposium is to propose an overview of the actual research in the field of programming and epigenetics by placing emphasis on recent research progresses in molecular and cellular mechanisms governing brain development/behaviour, environmentally-induced plasticity in the adult and neurodegeneration, as well as metabolic disturbances. Special attention will be given to molecular signalling mechanisms, mechanism-based therapeutic strategies and animal models.

Organising Committee/Comité d'Organisation

- **Stefania Maccari**
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Lab. Perinatal Stress
University of Lille1

Speakers

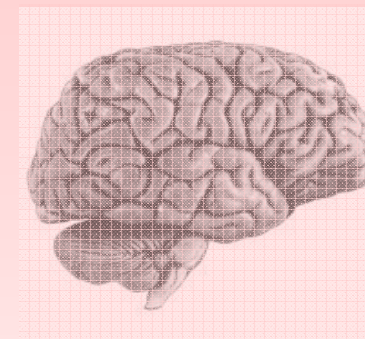
- **Sebastien G. Bouret**
- **Jocelyne Caboche**
- **Nicole Datson**
- **Tony Lefebvre**
- **Stefania Maccari**
- **Jean-Claude Michalski**
- **Anna Moles**
- **Johannes Reul**
- **Jonathan Seckl**
- **Moshe Szyf**

Scientific Committee/Comité Scientifique

- **Stefania Maccari**, Lille1
- **Sara Morley-Fletcher**, Lille1
- **Muriel Darnaudéry**, Lille1
- **Olivier Van Reeth**, Université Libre Bruxelles
- **Anna Moles**, CNR Rome Italy
- **Vincent Prévot**, Lille2

COLLOQUE THEMATIQUE SOCIÉTÉ DES NEUROSCIENCES

"PROGRAMMING AND EPIGENETICS"



Université de Lille 1
15-16 Décembre 2008

Lieu:

IAE

Avenue du peuple belge Lille

<http://www.programing-epigenetics-lille.univ-lille1.fr>

Deadline October 30th

Société des
Neurosciences



PROGRAMME



December 15th 9:00-17:00 "Programing of the epigenome"

Jonathan Seckl

"Glucocorticoids, developmental 'programming' and the risk of affective dysfunction", **Edinburgh University, UK**

Sebastien G. Bouret

"Developmental Programming of Hypothalamic Feeding Circuits", **University of Southern California & INSERM, USA, FR**

Anna Moles

"What's wrong with my mother: Do maternal licking and grooming change a mouse life?", **CNR Neurosciences, IT**

Moshe Szyf

"The dynamic epigenome and early life experience", **McGill University, CA**

Stefania Maccari

"Epigenetic programming of the stress response by prenatal restraint stress", **Lille1, FR**

December 16th 9:00-16:00 "Epigenesis of adult diseases"

Nicole Datson

"Glucocorticoid signalling in the brain: a target for epigenetic modulation?", **Leiden University, NL**

Johannes Reul

"Why do we remember stressful events so well? Some insights from epigenetic studies", **Bristol University, UK**

Jocelyne Caboche

"ERK/MSK1 signalling and chromatine remodelling in striatum: a key role for drug addiction", **CNRS-UPMC ENPARIS, FR**

Tony Lefebvre

"Glycosilation and Alzheimer", **UMR8576 Lille1, FR**

Jean-Claude Michalski

"Congenital Disorders of glycosylation in the brain", **UMR8576 Lille1, FR**

**International Symposium
"Programming and Epigenetics"**

REGISTRATION FORM

Last name: _____ First name: _____
Organization: _____ Adress: _____
City: _____ Zip code: _____ Contry: _____
Email: _____ Phone: _____
Fax: _____ Name of the accompanying person: _____

Registration Fees

Category	Before October 30 th (EUR)	After October 30 th (EUR)
Undergraduate and PhD students* <input type="checkbox"/>	20	35
Post Docs and Researchers* <input type="checkbox"/>	40	55
TOTAL		

*VAT included

Registration fee includes: Admission to Lectures, Proceedings, morning and afternoon refreshments, lunches on december 15 and december 16

PAYMENT

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