

estrogen hormone metabolism IGF
adipocyte leptine neuropeptide ghrelin obesity
diabetis steroid receptors peptide hormone
LTP metabolism endocrine regulation insulin
androgen IGF pituitary corticosteroid neuropeptide
diabetis androgen estrogen growth hormone
peptide hormone leptine metabolism
steroid receptors ghrelin IGF neuropeptide pituitary
insulin diabetis adipocyte peptide obesity
hormone metabolism IGF steroid receptors
endocrine regulation neuropeptide insulin
pituitary diabetis growth hormone corticosteroid androgen

endocrinology

Brain crosstalk in puberty and adolescence

Cerveau, adolescence et puberté

Paris - December 2, 2013

Brain crosstalk in puberty and adolescence

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Puberty and adolescence are key developmental processes occurring in the transition period between childhood and adulthood. They involve respectively profound physical and behavioral changes that share dependency on maturational events in the central nervous system (CNS). The neurobiology and endocrinology of puberty and adolescence has made important progress during the past decade through finely tuned studies on behavior, CNS imaging and molecular neurobiology.

The aim of the present symposium is to provide the attendants with a pathophysiological perspective on the role of CNS in puberty and adolescence, starting from genetic/molecular aspects, going through structural/imaging changes and leading to physical/behavioral characteristics. Therefore, renowned investigators involved in both animal and human research will convene and share with the participants, recent data as well as overall appraisal of relevant questions around CNS control of puberty and adolescence. No doubt that this program will inspire those involved in either scientific research or clinical practice or both in the fascinating field of puberty and adolescence.

La puberté et l'adolescence constituent des phases de développement essentielles dans la période de transition entre l'enfance et l'âge adulte. Elles s'accompagnent de changements physiques et comportementaux liés à la maturation du système nerveux central (SNC). Depuis quelques années, la recherche a fait des progrès considérables dans la compréhension de ces processus neurobiologiques et endocrinologiques, notamment grâce aux études ciblées sur le comportement, l'imagerie médicale et la neurobiologie moléculaire.

L'objectif de ce colloque est d'appréhender, dans une perspective pathophysiologique, le rôle du SNC durant la puberté et l'adolescence, à partir des aspects génétiques et moléculaires, ainsi qu'au travers des modifications de structure visibles par imagerie et finalement des caractéristiques physiques et comportementales. Des scientifiques renommés partageront avec l'audience l'état actuel de leurs recherches humaines ou animales et répondront aux interrogations qu'ils peuvent susciter. Ce colloque s'adresse tant aux chercheurs qu'aux cliniciens de ce domaine fascinant de la puberté et l'adolescence.



Scientific Committee:

Jean-Pierre Bourguignon (*Université de Liège, Liège, Belgium*)

Jean-Claude Carel (*Université Paris 7 Denis Diderot - Hôpital Robert Debré, Paris, France*)

Jacques Young (*Université Paris Sud et Assistance Publique Hôpitaux de Paris, Hôpital Bicêtre, Paris, France*)

Yves Christen (*Fondation IPSEN, Paris, France*)

Registration: Centre de Conférences et de Réceptions Etoile St-Honoré
21-25 rue Balzac - 75008 Paris, France

8:30 am ———— **Yves Christen:** Welcoming remarks

SESSION 1 Behavior and brain imaging in adolescence

8:45 am ———— **Paul Frankland** (*Hospital for Sick Children, Toronto, Canada*)
Adolescent brain and drug exposure

9:15 am ———— **Cheryl Sisk** (*Michigan State University, East Lansing, USA*)
Behavioral neuroendocrinology of puberty

9:45 am ———— **Julie Bakker** (*Université de Liège, Liège, Belgium*)
The role of pubertal hormones in the development of gender identity: fMRI studies

10:15 am ———— Posters and coffee break

10:45 am ———— **Pierre-André Michaud** (*Université de Lausanne, Lausanne, Switzerland*)
Exploratory behavior during adolescence: from brain development to clinical practice

11:15 am ———— **Russell Viner** (*UCL Institute of Child Health, London, UK*)
Puberty, the brain and mental health in adolescence

11:45 am ———— **Anne-Lise Goddings** (*MRC Clinical Research - UCL Institute of Child Health, London, UK*)
Social brain and adolescence

12:15 pm ———— **Jay N. Giedd** (*National Institute of Mental Health, Bethesda, USA*)
The teen brain: new views from imaging

12:45 pm ———— Lunch and posters

SESSION 2 Puberty in adolescence

2:00 pm ———— **Sergio Ojeda** (*Oregon Health Science University, Beaverton, USA*)
Epigenetic control of female puberty

2:30 pm ———— **Manuel Tena-Sempere** (*Universidad de Córdoba, Córdoba, Spain*)
Novel neuroendocrine and molecular mechanisms for the metabolic control of puberty

3:00 pm ———— **Vincent Prévot** (*Inserm U837 - Université de Lille 2, Lille, France*)
A switch in the control of GnRH gene expression is required for the onset of puberty

3:30 pm ———— Posters and coffee break

4:00 pm ———— **Nicolas de Roux** (*Inserm U676 - Hôpital Robert Debré, Paris, France*)
Neuroendocrine control of pubertal onset and synaptic vesicle proteins

4:30 pm ———— **Jean-Pierre Bourguignon** (*Université de Liège, Liège, Belgium*)
Secular variations in pubertal timing: past views, recast issues

5:00 pm ———— **Jean-Claude Carel** (*Université Paris 7 Denis Diderot - Hôpital Robert Debré, Paris, France*) &
Jacques Young (*Université Paris Sud et Assistance Publique Hôpitaux de Paris, Hôpital Bicêtre, Paris, France*)
Consequences of pubertal delay in teenagers and young adults:
Lessons from congenital hypogonadotropic hypogonadism and related disorders

5:30 pm ———— Conclusion

■ Organization / Organisation

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■ Venue / Lieu

Centre de Conférences
et de Réceptions Etoile St-Honoré
21-25 rue Balzac
75008 Paris
France

Parking public Etoile Friedland à 150 mètres
Métro : Charles de Gaulle Etoile (lignes 1, 2 et 6) et RER A

■ Official language / Langue officielle

English / Anglais

■ Posters / Communications affichées

Abstracts for posters should be submitted before
November 1, 2013
dominique.couzy@ipsen.com

*Les abstracts des posters doivent être soumis d'ici le
1^{er} Novembre 2013
dominique.couzy@ipsen.com*

■ Lunch / Déjeuner

Served on site / Servi sur place

■ Accommodation / Hôtel

You will receive, along with your registration
receipt, a list of hotels located close to the venue
of the meeting.

*Vous recevrez, avec votre accusé d'inscription, une liste d'hôtels
proches du lieu de la réunion.*



Registration Form

To be returned to the Fondation IPSEN with the registration fee
À retourner avec les droits d'inscription à la Fondation IPSEN

Brain crosstalk in puberty and adolescence

Paris - December 2, 2013

Family name / Nom

First name / Prénom.....

Speciality / Spécialité.....

Department or Unit / Service ou Laboratoire

.....

.....

Affiliation / Affiliation (Hôpital, Inserm, CNRS, etc)

.....

.....

Street and N° / N° et Rue.....

Area code / Code postal.....

City / Ville.....

Country / Pays.....

Telephone / Téléphone

E-mail.....

.....

■ Registration Fee / Frais d'inscription

100 € before November 1, 2013

130 € after November 1, 2013

Including lunch, coffee-breaks, congress bag, proceedings.
Comprenant déjeuner, pauses-café, kit congrès, compte-rendu.

Free for students but :

- Registration is compulsory and should be completed on October 15th at the latest. Registration will be confirmed according to availability on November 1st.
- Due to space restrictions, lunch for students is subjected to availability.

Student / Étudiant

■ Payment / Mode de règlement

- Cheque should be made out to 'Fondation IPSEN/ Fondation de France'
- For foreigners, payment on site will be accepted (cash only, no credit card please).

Date.....

Signature :



ENDOCRINOLOGY

- Brain Somatic Cross-Talk and the Central Control of Metabolism
Paris, January 28, 2002
- Endocrine Aspects of Successful Aging: of Genes, Hormones and Lifestyles
Paris, December 2, 2002
- Hormones and the Brain
Paris, December 8, 2003
- Deciphering Growth
Paris, December 6, 2004
- Insights into Receptor Function and New Drug Development Targets
Paris, December 5, 2005
- Hormonal Control of Cell Cycle
Paris, December 4, 2006
- Hormones and Social Behavior
Paris, December 3, 2007
- IGFs: Local Repair and Survival Factors Throughout Life-Span
Paris, December 1, 2008
- Novel Insights in Adipose Cell Functions
Paris, December 4, 2009
- Multi-System Endocrine Disruption
Paris, November 29, 2010
- Multiple Origins of Sex Differences in Brain. Neuroendocrine Functions and their Pathologies
Paris, November 28, 2011
- Hormones, Intrauterine Health and Programming
Paris, December 3, 2012
- Brain Crosstalk in Puberty and Adolescence
Paris, December 2, 2013

NEUROSCIENCES

- Glutamate, Cell Death and Memory
Paris, September 24, 1990
- Gene Transfer and Therapy in the Nervous System
Paris, September 23, 1991
- Motor and Cognitive Functions of the Prefrontal Cortex
Paris, November 23, 1992
- Temporal Coding
Paris, October 11, 1993
- Neurobiology of Decision-Making
Paris, October 24, 1994
- Isolation, Characterization and Utilization of CNS Stem Cells
Paris, September 18, 1995
- Normal and Abnormal Development of the Cortex
Paris, October 16, 1996
- Neuroplasticity: Building a Bridge from the Laboratory to the Clinic
Paris, October 6, 1997
- Neuroimmune Interactions and Neuropsychiatric Diseases
Paris, October 5, 1998
- Neuronal Death: by Accident or by Design
Paris, October 9, 2000
- Neurosciences at the Post-Genomic Era
Paris, December 3, 2001
- Stem Cells in the Nervous System: Function and Clinical Implications
Paris, January 20, 2003
- Neurobiology of Human Values
Paris, January 24, 2005
- Memories: Molecules and Circuits
Paris, April 24, 2006
- Retrotransposition, Diversity & the Brain
Paris, March 12, 2007
- Neurobiology of «Umwelt»: How Living Beings Perceive the World
Paris, February 18, 2008
- Macro-Roles for microRNAs in the Life and Death of Neurons
Paris, April 20, 2009
- Characterizing Consciousness: from Cognition to the Clinic?
Paris, May 3, 2010
- Epigenetics, Brain and Behavior
Paris, April 18, 2011
- Programmed Cells : from Basic Neuroscience to Therapy
Paris, April 2, 2012
- New Frontiers in Social Neuroscience
Paris, April 22, 2013
- Micro-, meso- and macro-connectomics of the brain
Paris, May 5, 2014 (in preparation)

ALZHEIMER'S DISEASE

- Immunological Aspects of Alzheimer's Disease and Brain Amyloidosis
Angers, September 14, 1987
- Genetics and Alzheimer's Disease
Paris, March 25, 1988
- Neuronal Grafting and Alzheimer's Disease: Future Perspectives
Montpellier, September 19, 1988
- Biological Markers of Alzheimer's Disease
Toulouse, April 24, 1989
- Imaging, Cerebral Topography and Alzheimer's Disease
Lille, October 16, 1989
- Growth Factors and Alzheimer's Disease
Strasbourg, April 25, 1990
- Neurophilosophy and Alzheimer's Disease
San Diego, January 11, 1991
- Heterogeneity of Alzheimer's Disease
Marseille, April 6, 1992

- The β -Amyloid Protein Precursors in Development, Aging and Alzheimer's Disease
Lyon, June 21, 1993
- Alzheimer's Disease: Lessons from Cell Biology
Paris, April 25, 1994
- Apolipoprotein E and Alzheimer's Disease
Paris, May 29, 1995
- Connections, Cognition and Alzheimer's Disease
Paris, May 20, 1996
- Presenilins and Alzheimer's Disease
Paris, April 28, 1997
- Epidemiology of Alzheimer's Disease: from Gene to Prevention
Paris, May 11, 1998
- Fatal Attractions within Neurons: Intracytoplasmic Protein Aggregates in Alzheimer's Disease and Related Neurodegenerative Disorders - *Paris, April 12, 1999*
- Neurodegenerative Diseases: Loss of Function through Gain of Function - *Paris, February 28, 2000*
- Notch from Neurodevelopment to Neurodegeneration: Keeping the Fate - *Paris, March 19, 2001*
- Immunization Against Alzheimer's and other Neurodegenerative Diseases - *Paris, March 13, 2002*
- The Living Brain and Alzheimer's Disease
Paris, March 17, 2003
- Genotype – Proteotype – Phenotype correlations in Dementia
Paris, September 13, 2004
- Alzheimer: 100 Years and Beyond
(in collaboration with Tübingen University)
Tübingen, November 2-5, 2006
- Synaptic Plasticity and the Mechanism of Alzheimer's Disease
Paris, April 16, 2007
- Intracellular Traffic and Neurodegenerative Disorders
Paris, April 28, 2008
- Diabetes, Insulin and Alzheimer's Disease
Paris, April 6, 2009
- Two Faces of Evil: Cancer and Neurodegeneration
Paris, April 26, 2010
- Protein Quality Control in Neurodegenerative Diseases
Paris, May 9, 2011
- Proteopathic Seeds and Neurodegenerative Diseases
Paris, February 27, 2012

CANCER SCIENCE

- Can Cancer be treated as a Chronic Disease?
Agra, February 14-15, 2005
- Are Inflammation and Cancer Linked?
Cape Town, February 12-15, 2006
- Metastasis and Invasion
Spineto, May 20-23, 2007
- Metabolism and Cancer
Costa Rica, March 9-12, 2008
- Molecular Targets of Cancer Therapy
Jaipur, February 14-18, 2009
- Stem Cells and Cancer
Bariloche, March 6-10, 2010
- Epigenetics and Cancer
Swakopmund, March 19-23, 2011
- Mouse Models of Human Cancer: are they Relevant?
Ouro Preto, March 10 - 14, 2012
- Cancer Immunotherapy
Taormina, March 9-13, 2013
- Cancer Genomics
Chantilly, April 12-14, 2014 (in preparation)

VASCULAR TREE

- Origins and Regeneration of the Vascular Tree
Paris, October 18, 2004
- Life and Death of the Vascular Tree
Paris, October 17, 2005
- The Vascular Tree Aflame!
Paris, October 9, 2006
- Angiogenesis and Neurogenesis
Paris, October 22, 2007
- Oxygen Sensing in the Vascular Tree
Paris, October 27, 2008

LONGEVITY

- Longevity: to the Limits and Beyond
Paris, April 19, 1996
- The Paradoxes of Longevity
Paris, March 23, 1998
- Sex and Longevity: Sexuality, Gender, Reproduction, Parenthood
Paris, October 18, 1999
- Brain and Longevity
Paris, October 8, 2001
- Frailty and Longevity
Paris, October 11, 2004