



The Neuroscience Letter

The LARC-Neurosciences network

18th Larc-Neuroscience Annual Meeting



The 18th Annual Meeting of the Teaching and Research network in Neurosciences of the Northwest (LARC-Neuroscience Network) will take place on Friday, October 17th, 2014 in Caen. Organised by Prof **Carine ALI** (INSERM U919), Prof **Omar**

TOUZANI (CNRS UMR6301) and their colleagues, this symposium will be held at the ESAM (*Ecole Supérieure d'Arts et Medias*).

The meeting will include two plenary lectures presented by Dr **Laurent GROC** (Interdisciplinary Institute for Neuroscience, University Bordeaux 2, France) on "NMDA receptor trafficking" and Prof **Lars EDVINSSON** (Division of Experimental Vascular Research, Lund University, Sweden) on the theme "Neuropeptides and the cerebral circulation".



LUNDS UNIVERSITET

The day will also include 12 oral presentations by young researchers working in different laboratories of the network. There will be a poster display session and networking opportunities. Prizes will be awarded for the best oral and poster presentations. For more information, visit: <http://larc-neurosciences.org>.

Thematic day of the SNE

The SNE (*Société de Neuroendocrinologie*) is organising a thematic day on « *Central regulation of energy metabolism: new concepts, new hopes* ».

Journée thématique de la Société de Neuroendocrinologie
29-30 septembre 2014, à Paris (Université Paris Diderot)

Régulation centrale du métabolisme énergétique
nouveaux concepts, nouveaux espoirs

Intervenants:
Marc Claret (Espagne)
Matthias Tschöp (Allemagne)
Alexandre Benani (France)
Etienne Challet (France)
Vincent Prévot (France)
Carole Rovère (France)
Marie-Stéphanie Cargot Froidevaux (France)
Mathilde Tauber (France)

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This event will take place at the University Paris-Diderot, on September 29th and 30th, 2014. The program includes two symposia and two plenary lectures by **Marc CLARET** (IDIBAPS, Barcelona) and **Matthias TSCHÖP** (Helmholtz Zentrum München, IDO, Munich). For more information about the event, visit the SNE website: <https://www.societe-neuroendocrinologie.fr>.

INSERM thematic day on France-Quebec cooperation

On the occasion of its 50th anniversary, INSERM organises a thematic day focusing on France-Quebec cooperation in the field of Neuroscience, jointly with the FRSQ. This event will take place at the CHUM Research Centre in Montreal, on September 15th 2014, and will feature the following conferences:



« *Status of research in neuroscience in France and Quebec* »:

- Quebec: **Rémi QUIRION**
- France: **Étienne HIRSCH**;

« *Development of selective agonists of PAC1-R receptor for the treatment of cerebral ischemia* » **David VAUDRY** (University of Rouen);

« *Identification of cellular elements involved in neurovascular coupling* », **Edith HAMEL** (McGill University);

« *International Neuroimaging Laboratory and modeling (Linem)* » **Habib BENALI** (INSERM)

« *The role of chemokines in chronic pain* » **Philippe SARRET** (Université de Sherbrooke);

« *Non-amyloid in Alzheimer's disease components: cholesterol* » **Pierre CHAURAND** (University of Montreal);

« *MicroRNAs as modulators of tau pathology* » **Luc FOG** (Lille 2 University - INSERM);

« *Caregivers of young people with Alzheimer's disease or a related disease: analysis of needs and psychosocial care* » Francine Ducharme (IUGM);

« *The glutamatergic transmission in the Alzheimer's disease* ». **Salah EI MESTIKAWT** (McGill University);

« *Molecular Relationship between Alzheimer's disease and prion diseases: a new way in the fight against dementia* » **Xavier ROUCOU** (University of Sherbrooke);

« *20 years of collaboration franco-québécoise neuroscience* » **Jacques EPELBAUM**.

For more information, contact Ms **Agnès KERBUS** (agnes.kergus@inserm.fr).



Thesis

Ms **Maryline LECOINTRE** (ERI 28 NeoVasc) defended her PhD Thesis in Cellular Biology (specialty Neuroscience), entitled « *Evolution of glutamatergic transmission in the cortex during development in mice: impact of an anesthetic, ketamine, on the development of the NMDA-R* », on June 24th 2014. This Thesis was funded by the Ministry of Higher Education and Research (Thesis Supervisors: Dr **Sylvie JEGOU** and Pr **Isabelle Leroux-NICOLLET**).

Conference

Prof **Darek GORECKI** of the University of Portsmouth gave a conference entitled « *Plumbers Of The Brain: The Blood-Brain Barrier* » at the Winchester Science Festival, which took place from July 25th to 27th, 2014.

CECE2014



The 27th Conference of European Comparative Endocrinologists, organised by Dr Olivier KAH and his colleagues took place in Rennes from August 25th to 29th, 2014. This congress featured 5 plenary sessions, 108 oral communications and 2 poster sessions, and was attended by more than 500 researchers working in the field of comparative endocrinology. Several conference proceedings will be published in *General and Comparative Endocrinology* and in *Frontiers in Neuroendocrine Science*.

Publications

F. Turrel, P. Kwetieu of Lendeu, L. Abily-Donval, C. Chollat, S. Marret, F. Dufasne, P. Mate, Y. Ramdani, B. Dureuil, V. Laudenschlag, B.J. Gonzalez, and S. Jégou. The antiapoptotic Effect of Remifentanil on the Immature Mouse Brain: An Ex Vivo Study.

In this article published in *Anesthesia & Analgesia* (118:1041-1051, May 2014), researchers at NeoVasc (ERI 28), in collaboration with the Departments of Pediatrics and Neonatal Resuscitation, Anesthesia and Intensive Care, Clinical Pharmacology of Rouen University Hospital and the Laboratory of Organic Chemistry and Pharmaceutical of Université Libre de Bruxelles, assessed the impact of remifentanil, an opioid more frequently used in the perinatal period during cesarean section under general anesthesia, but also in the new born to target sedative in intensive care, the murine developing brain. They show that the ex vivo remifentanil exerts an anti-apoptotic effect on immature

cortex involving NMDA receptors and opioids, without the increase in cell death by necrosis excitotoxic conditions. These results are reassuring regarding the use of remifentanil during the neonatal period. A clinical protocol on the use of remifentanil under general anesthesia for caesarean section is currently under inclusion by the Anesthesiology Service of the University Hospital of Rouen (REAGI study, principal investigator: **F. Turrel**).

T. Gaberel, A. Montagne, F. Lesept, M. Gauberti, E. Lemarchand, C. Orset, R. Goulay, T. Bertrand, E. Emery, D. Vivien. Urokinase versus Alteplase for intraventricular hemorrhage fibrinolysis.

In this article published in *Neuropharmacology* (2014 Oct;85:158-65. doi: 10.1016/j.neuropharm.2014.05.001. Epub 2014 May 15), researchers of Unit 905 studied the intraventricular hemorrhage (IVH), which is the most severe form of stroke. The intraventricular fibrinolysis (IVF) is a very promising new form of treatment, with the use of plasminogen activators uPA and tPA, which however have not been compared in clinical study. In a preclinical model of IVH induced in rats by the injection of type VII collagenase, the authors compared the effect of these two agents in the context of IVF. In this model, while uPA and tPA reduce ventricular volumes, only uPA enhances functional recovery. These results could be explained by the fact that uPA, unlike tPA, does not exacerbates inflammatory and neurotoxic processes.

T. Seaborn, A. Ravn, R. Au, B.K. Chow, A. Fournier, O. Wurtz, H. Vaudry, L.E. Eiden, D. Vaudry. Induction of serpine b1a by PACAP or NGF is required for PC12 cells survival after serum withdrawal.

In this article published in the *Journal of Neurochemistry* (2014; doi: 10.1111/jnc.12780), researchers of INSERM U982, in collaboration with teams in Bathesda, Hong Kong and Montreal, showed that *serine peptidase inhibitor, clade B, member 1a* (serpine b1a), one of the most induced genes by PACAP in PC12 cells, is necessary for the inhibition of caspase-3 by PACAP and thus participates in its antiapoptotic effect.

Recruitment

Ms **Julia LE GALLO** has joined INSERM U982 in July to take over the management of the TC2N project. Ms **LE GALLO** will be responsible for the administrative and financial closure of the project, as well as participate in the last activities of TC2N.

Find us on:

<http://larc-neurosciences.org>



"Investing in your future"
Crossborder cooperation programme
2007-2013 Part-financed by the European Union
(European Regional Development Fund)