



European Cancer and Environment Research Institute

ECERI NEWSLETTER

ECERI Newsletter N° 2 December 2013

www.eceri-institute.org

EDITO : Step by step, ECERI is being built up. Our first research programs are underway, while efficacy of the cancer biomarker BM 2607/05 was confirmed once again by Pr Vincent Castronovo's lab in Liège. A growing number of researchers are joining ECERI, showing the rising interest in its field of research. Last, the organisation of the Fourth Paris Appeal Congress in 2014 will be an essential step in the building of the ECERI organisation.



Pr Janos Frühling, ECERI's Scientific Committee Vice-President.

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ECERI's News

New ECERI address

Please note that ECERI headquarters address and phone number in Brussels have changed. The new headquarters address is : **Square de Meeus 38-40, 1000 Brussels.** The phone number is : **0032 24 01 87 75** (Belgium); or **0033 1.45.78.53.52** (France).

ECERI's Scientific Committee, Administrative Board and General Assembly.

On September the 24th, ECERI held its official meetings in Brussels, at the Royal Belgium Academy of Medicine.

The Scientific Committee confirmed previously defined research key areas which are now part of three main ECERI topics : mitochondria, metabolism and environment / psychologic stress and cancer / microbiota and cancer. The Committee was held in presence of **Pr Adam Wilkins**, an American scientist based in Germany, former Chief editor of BioEssay, presently one of the Editors of the peer-reviewed journal Genetics, and of Dr **Sylvie Barbier**, Head of the Bio-Avenir Laboratory located in Metz, France, which is a new major ECERI research partner laboratory.



Pr Belpomme and Pr Castronovo

Four new scientific members have been elected : **Pr Marcel Roberfroid**, retired Director of the Biochemical Toxicology and Cancerology Research Unit at Louvain University, Belgium, **Pr Gérard Ledoigt**, Professor in Biology, at Blaise Pascal University, Clermont-Ferrand, France, previously Director of Research Unit on tumors and cell vigilancy, **Pr François Fuks**, Director of the Cancer Epigenetics Laboratory, Université Libre de Bruxelles, Belgium and **Dr Atanu Sarkar**, Assistant Professor at St John's University, Canada, specialised in Inuits public health issues.



Mr Jean Huss and Pr Marcel Roberfroid

ECERI – European Cancer and Environment
Research Institute

Square de Meeus 38-40, - 1000 Brussels

Tél : 0032 24 01 87 75

or 0033 1.45.78.53.52

sg.eceri@gmail.com -

www.eceri-institute.org

Pr Isabelle Mansuy, from the Brain Research Institute in Zurich, Switzerland, presented the research project entitled «Early life stress and cancer across generations : a mouse model with potential involvement of miRNAs». The aim of this study is to test the hypothesis that an acquired psychological stress in very early life could trigger susceptibility to cancer across generations through the alterations of miRNAs pathways and of the activity of some of their target genes linked to cancer.



From left to right : Dr Sylvie Barbier, Pr Isabelle Mansuy, Pr Janos Frühling.

During this meeting, **Dr Yann Gaston-Mathé** presented an innovative data mining software named HyperCube® whose principle task is to identify local areas of over-density of a specific outcome in the multi-dimensional space of observations. HyperCube's technology is different from classic data mining technologies (multi-variate regression, SVM, decision trees, Bayesian networks, etc.); it is adapted to the issues of biological research, since it can apprehend biological heterogeneity and complexity by identifying distinct sub-populations, as well as interactions between variables (contact : yann.gastonmathe@hypercube-research.com).

The **Administrative Board** agreed on an official partnership with ISDE-International, (International Society of Doctors for the Environment) represented by the President of its Scientific Committee, **Dr Ernesto Burgio**; equally a member of the ECERI Scientific Committee.

ECERI' s current research

Focus on research projects in Martinique

Three research projects, led in partnership with ECERI, are currently underway in Martinique, a French Caribbean Island: the first one aims at studying the links between prostate cancer and pesticides, the second one at studying the links between xenobiotics contained in fat and colon cancer, the third one at measuring pollutants in fetus issued by spontaneous abortions.



ECERI' s projects : Fourth Paris Appeal Congress

In 2014, the 4th Paris Appeal Congress on «Electromagnetic fields, heavy metals and health» will consist in two specific meetings:

- The first meeting will be held October 14th & 15th, 2014, in Brussels at the Royal Belgium Academy of Medicine. This meeting will gather the most advanced scientists on this matter.
- Some days later, a second meeting in the French Senate in Paris on the same matter, opened to policy makers and the public. The aim is to make European regulations more effective--relying more on scientific studies.

The program of the International Scientific Congress is under preparation. If you are interested in making a presentation, please let us know. If you know any specialist having some innovative data on these subjects, thank you for making us aware as early as possible.

Recent publications

Pooled analysis of case-control studies on acoustic neuroma diagnosed 1997-2003 and 2007-2009 and use of mobile and cordless phones, Lennart Hardell, Michael Carlberg, Fredrik Söderqvist, and Kjell Hansson Mild. *International Journal of Oncology*, Received May 22, 2013; Accepted July 1, 2013, DOI: 10.3892/ijo.2013.2025.

Meningioma patients diagnosed 2007--2009 and the association with use of mobile and cordless phones: a case-control study, Michael Carlberg, Fredrik Söderqvist, Kjell Hansson Mild, Lennart Hardell *Environmental Health* 2013, 12:60 doi:10.1186/1476-069X-12-60.

