aviesan
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pour les sciences de la vie et de la santé

Friday December 11th, 2015

Symposium: "New concepts & technological advances in extracellular matrix"

Amphitheatre Jean Jaurès
ENS Paris
29 rue d'Ulm
Paris 5ème

ITMO Molecular and structural basis of life sciences

Annual Symposium ITMO BMSV (Molecular and structural basis of life sciences) Alliance AVIESAN

8:45 *Welcome and Check-in*

9:15 **Introduction**

SESSION 1: The cell-matrix interface I - *Chair : **Anne Imberty** (CERMAV, CNRS, Grenoble)*

9:30 **Self-organization of extracellular polysaccharides** - **Ralph Richter** (Joseph Fourier University, Grenoble - CIC biomaGUNE, San Sebastian, Spain - Max Planck Institute for Intelligent Systems, Stuttgart, Germany)

10:10 **Mechanics of cell adhesion (bio-micromechanic, cell polarity)** – **Matthieu Piel** (Institut Curie, Paris)

10:35 **Second harmonic imaging of collagen organisation in connective tissues** – **Marie-Claire Schanne-Klein** (Laboratoire d'Optique et Biosciences, Ecole Polytechnique, CNRS, Palaiseau)

11:00 *Coffee-break and Poster Session*

SESSION 2: The cell-matrix interface II - *Chair : **François-Xavier Maquart** (MEDyC, UMR CNRS/URCA N° 7369, Faculté de Médecine de Reims)*

11:20 **Heparan sulfate in embryonic development: Lessons from biosynthesis studies** – **Lena Kjellen** (Uppsala University, Sweden)

12:00 **Chemistry & Biology : a winning tandem for the exploration of glycosaminoglycan synthesis** – **Chrystel Lopin-Bon** (ICOA, Orléans) / **Sandrine Gulberti** (IMoPA, Nancy)

12:25 **Flash presentations**

13:00 *Lunch (Hall Ecole Chimie Paris Tech - 11, rue Pierre et Marie Curie – Paris 5ème)*

SESSION 3: Molecular aspects of matrix biology and disease I - *Chair: **Sylvie Fournel-Gigleux** (IMoPA, Nancy)*

14:30 **Small Leucine Rich Proteoglycan signaling in inflammation and fibrosis** - **Liliana Schaefer** (Universitäts Klinikum Goethe-Universitäts Frankfurt, Germany)

15:10 **Sulfs : post-synthetic regulators of heparan sulfate structure and activities** - **Romain Vives** (Institut de Biologie Structurale, CNRS, Grenoble)

15:35 **Syndecan-1 function in cell adhesion to laminin** - **Patricia Rousselle** (Institut de Biologie et Chimie des Protéines, ENS Lyon, CNRS, Lyon)

16:00 *Coffee-break and Poster Session*

SESSION 4: Molecular aspects of matrix biology and disease II - *Chair: **Fabrice Allain** (UGSF, UMR 8576 CNRS - Université Lille 1)*

16:20 **Microparticules and cancer: key actors of cell communication** – **Christophe Dubois** (INSERM UMR-S1076, Vascular Research Center of Marseille)

16:45 **Role of proteoglycans in the control of cancer cells behaviour** - **Nikos Karamanos** (Department of Chemistry, University of Patras, Greece)

17:25 ***Conclusion***

17:35 *End of the symposium*

Flash presentations (12:25 - 13:00)

Molecular modeling and numerical simulations of extracellular matrix components : insight into the structure/function/dynamic relationships - **Nicolas Belloy** (Reims)

Elastin-derived peptides stimulate tumour invasion process via the increase of tumour cell blebbing and microvesicle shedding - **Bertrand Brassart** (Reims)

Glycosaminoglycans profiling in different cell types using infrared spectroscopy and imaging - **Stéphane Brezillon** (Reims)

Targeting tumor progression with compounds from the extracellular matrix: an original peptide-based approach - **Stéphane Dedieu** (Reims)

Galectin-1 dependent pre-B cell receptor activation - **Latifa Elantak** (Marseille)

Tissue-engineered dermal model rich in collagens recapitulates human native dermal tissue biomechanics better than classical monolayer and spheroid model - **Laure Gibot** (Toulouse)

Why the most abundant protein in the body, collagen I, is normally a heterotrimer - **David Hulmes** (Lyon)

Matrigel microbeads provide a highly-controlled microenvironment for prostatic organoïds culture - **Bastien Laperrousaz** (Grenoble)

Cysteine-rich protein 2 (CRP2): linking the actin cytoskeleton, invadopodia and hypoxia in breast cancer cells – **Xianqing Mao** (Luxembourg)

A new tridimensional nanofibers scaffold to study the interaction of glioblastoma stem cells with the extracellular matrix - **Ali Saleh** (Montpellier)

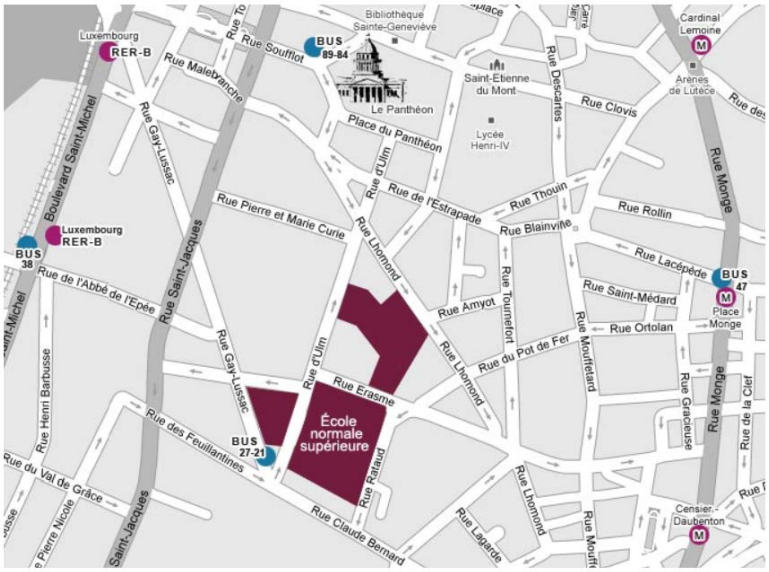
Structural and functional characterization of matrix heparan sulfates and chondroitin sulfates of the human cartilage during osteoarthritis - **Sara Shamdani** (Créteil)

The lysyl oxidase propeptide, a new player within the extracellular matrix- **Sylvain Vallet** (Lyon)

Teaching:
The BioC2M Master's degree from Cergy-Pontoise University : a new teaching program dedicated to the multifaceted properties and pleiotropic functions of the extracellular matrix - **Johanne Leroy-Dudal** (Cergy-Pontoise)

Venue

To get the **Amphitheatre Jean Jaurès**
Ecole Normale Supérieure (ENS) Paris
29 rue d'Ulm
Paris 5ème



http://www.ens.fr/a-propos/l-ecole/article/contacts-et-plans

Métro : Cardinal Lemoine (ligne 10), Place Monge (ligne 7), Censier Daubenton (ligne 7)
RER B : Luxembourg
Bus : 21 – 27 – 47 - 38 – 89 – 84

Inscriptions: ***http://itmo-bmsv-2015.sciencesconf.org/***

Web Site: (French) ***http://tinyurl.com/IBMSV-aviesan*** *and (English)* ***http://tinyurl.com/IBMSV-aviesan-english***