

**MAY
15-17
2019**



Faculty of Medicine (URCA), Reims, France

ANNUAL MEETING OF THE FRENCH SOCIETY FOR EXTRACELLULAR MATRIX BIOLOGY

ECM: FROM DISEASES TO WELFARE



**ORGANIZING
SCIENTIFIC
COMMITTEE**

Hervé EMONARD, Stéphane BRÉZILLON,
Laurent DUCA, Stéphane JAISSON (Reims)
& Maxime LEHMANN (Strasbourg)



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SCIENTIFIC PROGRAM

13:00 Welcome participants

13:15 "IN MEMORIAM" SESSION

Chairs: Marie-Paule JACOB (Paris, France) and William HORNEBECK (Reims, France)

13:15 "In memoriam of Jacques-Paul Borel"

13:25 Ladislav Robert Conference: Collagens and elastin: intertwined proteins
Sylvie RICARD-BLUM (UMR 5246 CNRS, Université Lyon 1, Lyon, France)

13:55 Antonio Mario Tamburro Conference: The odyssey of a champagne bubble, from bottle to flute.
G rard LIGER-BELAIR (GSMA, UMR 7331 CNRS/URCA, Reims, France)

14:25 **PRESENTATION I&L Biosystems France SAS** (Champagne-au-Mont-d'Or, France)

14:35 SESSION I EXTRACELLULAR MATRIX IN CANCER

Chairs: St phane DEDIEU (Reims, France) and Maxime LEHMANN (Strasbourg, France)

14:35 Finding a disease to target gelatinase B or matrix metalloproteinase-9
Ghislain OPDENAKKER (KU Leuven, Belgium)

15:15 Epidermal secreted proteases drive inflammation and fibrosis in RDEB disease progression (selected by SFBMEc)
Pauline NAUROY (Medical Center - University of Freiburg, Freiburg, Germany)

15:30 Ascites, a tumoral microenvironment, impact the integrity of mesothelium during peritoneal implantation of ovarian carcinoma (selected by SFBMEc)

Carine LAURENT-ISSARTEL (Universit  de Cergy-Pontoise, Cergy-Pontoise, France)

15:45 Evaluation of LRP-1 receptor contribution during tumor progression and angiogenesis in a triple negative breast cancer model (selected by SFBMEc)

Oc ane CAMPION (UMR 7369 CNRS/URCA, Reims, France)

16:00 Coffee break & posters session

16:45 New AFM tools for quantitative nanomechanics on living cells and tissues (sponsored by Bruker Nano GmbH)
Fr d ric EGHIAIAN (Bruker Nano GmbH, Berlin, Germany)

17:00 Alpha5beta1 integrin modulates glioma cell response to EGFR-targeted therapy: role of endocytosis (selected by SFBMEc)
Elisabete CRUZ da SILVA (UMR 7021 CNRS/Universit  de Strasbourg, Strasbourg, France)

17:15 Tenascins and latent TGF-beta, more than a sticky story (selected by SFBMEc)
Alexandre AUBERT (LBTI, IBCP, Lyon, France)

17:30 Pancreatic acinar differentiation is guided by differential laminin deposition (selected by SFBMEc)
Charlotte HEYMANS (UCLouvain, Brussels, Belgium)

17:45 Syndecan-1 as a multifunctional regulator of cancer progression
Martin G TTE (University of M nster, Germany)

18:25 End of the day

20:00 **Reception at the Town Hall of Reims**

08:15 SESSION II (WITH THE PARTICIPATION OF LIAC) EXTRACELLULAR MATRIX IN VASCULAR AGING

Chairs: Luis MONTEIRO RODRIGUES (Lisboa, Portugal) and Pascal MAURICE (Reims, France)

08:15 Molecular aging of matrix proteins and vascular modifications
Philippe GILLERY (UMR 7369 CNRS/URCA, Reims, France)

08:55 Extracellular matrix degradation and inflammation: a vicious circle to target in cardiovascular diseases (selected by LIAC)
Muriel LAFFARGUE (UMR1048 INSERM, Institute of Cardiovascular and Metabolic Diseases, Toulouse, France)

09:10 The human Golgi ion channel GAAP: a novel regulator of ECM proteolytic degradation (selected by LIAC)
Nuno SARAIVA (CBIOS U Lusofona's Research Center for Biosciences and Health Technologies, Lisboa, Portugal)

09:25 Sleep apnea- and intermittent hypoxia-induced arterial alteration correlates with extracellular release of a VE-cadherin fragment through ROS and HIF-1 (selected by SFBMEc)
Olfa HARKI (U1042 INSERM, Universit  de Grenoble Alpes, Grenoble, France)

09:40 Coffee break & posters session

10:25 TSP-1:CD47 orthosteric antagonist TAX2 peptide has platelet anti-aggregating and anti-thrombotic activities (selected by SFBMEc)
Thomas SARAZIN (UMR 7369 CNRS/URCA, Reims, France)

10:40 Tenascin-C in ANCA-associated vasculitis (selected by SFBMEc)

Ch rine ABOU FAYCAL (INSERM U1109, Institute of Molecular Immunorheumatology, Strasbourg, France)

10:55 Physics and game engines: *in silico* tools to enhance modelling of ECM proteins (selected by SFBMEc)
St phanie BAUD (UMR 7369 CNRS/URCA, Reims, France)

11:10 Molecular assembly and fate of elastic fibers

Christian SCHMELZER (Martin-Luther-Universit t Halle-Wittenberg, Halle, Germany)

11:50 Lunch & posters session

13:20 SESSION III (WITH THE PARTICIPATION OF CED) EXTRACELLULAR MATRIX IN DERMOCOSMETOLOGY

Chairs: Patricia ROUSSELLE (Lyon, France) and Jean-Alexis GRIMAUD (Paris, France)

13:20 The reconstructed skin model to study the causes of skin aging
Herv  PAGEON (L'Or al - Research and Innovation, Paris, France)

14:00 3D scaffold free organoid to explore dermal matrix remodeling (selected by CED)
Marisa MELONI (VitroScreen, Milan, Italy)

14:15 CTISebogland: world first *ex vivo* 3D sebaceous gland platform to study active ingredients effect on sebum production (selected by CED)
Anne-France DE BENGUY (CTIBiotech, Meysieu, France)

14:30 Meeting tissue engineering challenges with 4D bioprinting (selected by CED)
Mickael GARCIA (Poietis, Pessac, France)

14:45 An innovative approach to study matrix and cell interaction (selected by CED)
Anna DRILLAT (BioMeca, Lyon, France)

15:00 Coffee break & posters session

15:45 ECM response to photobiomodulation and mechanotransduction (sponsored by FIBROS SARL)
Cyprien GUERMONPREZ (InDerm SAS, P pini re Paris-Sant  Cochin, France)

16:00 SILAB's expertise in imaging quantification, a unique approach in the dermo-cosmetic research (sponsored by SILAB)
Laurie VERZEAUX (SILAB, Brive-la-Gaillarde, France)

16:15 New approaches to highlight the role of fibroblasts for collagen network rejuvenation (sponsored by BASF Beauty Care Solutions France S.A.S.)
Nicolas BERTHELEMY (BASF Beauty Care Solutions France S.A.S., Pulnoy, France)

16:30 Original chemical profiling tools for natural extract dereplication: what is the relevance in dermocosmetics?
Jean-Hugues RENAULT (ICMR, UMR 7312 CNRS/URCA, Reims, France)

17:10 Protective effects of flavonoids against epidermal basement membrane damage through the inhibition of cathepsin (selected by SFBMEc)
Fabien LECAILLE (INSERM UMR 1100, Universit  de Tours, France)

17:25 Atomic force microscopy as a state-of-the-art methodology to understand the skin biomechanical properties (selected by SFBMEc)
Marie MEUNIER (Givaudan, Biological Evaluation, Pomacle, France)

17:40 Defining novel biomarkers and peptide fingerprints of skin ageing (selected by SFBMEc)

Matiss OZOLS (University of Manchester, Division of Cell Matrix Biology & Regenerative Medicine, Manchester, United Kingdom)

17:55 End of the day

20:30 **Gala dinner - Brasserie Excelsior**



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- 08:30 SESSION IV
EXTRACELLULAR MATRIX AS SOURCE OF BIOMATERIALS (WITH THE PARTICIPATION OF LIAC)**
Chairs: Brigida BOCHICCHIO (Potenza, Italy) and Halima KERDJOUJ (Reims, France)
- 08:30 Cellular communication and bone tissue engineering
Joëlle AMÉDÉE (INSERM U1026, Université de Bordeaux, France)
- 09:10 Large and small artery alterations in Williams-Beuren syndrome: insights from the complete deletion mouse model (selected by LIAC)
Francesc JIMENEZ-ALTAYO (Universitat Autònoma de Barcelona, Barcelona, Spain)
- 09:25 Biopolymers-inspired electrospun scaffolds (selected by LIAC)
Brigida BOCHICCHIO (Università degli Studi della Basilicata, Potenza, Italy)
- 09:40 Steering cell activity through biomaterials and scaffolds design (selected by SFBMEc)
Lorenzo MORONI (Maastricht Universiteit, Maastricht, Netherlands)
- 09:55 A biomaterial preserving the 3D microarchitecture of skeletal muscle extracellular matrix to potentially promote muscle repair (selected by SFBMEc)
Aurélie TRIGNOL (IRBA, Département Soutien Médico-Chirurgical des Forces, Clamart, France)
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- 10:10 Coffee break & posters session**
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- 10:55 Cross-linking of collagen hydrogels by lysyl oxidase-like 2 (LOXL2) improves pre-vascularization of tissue constructs (selected by SFBMEc)
Laurent MULLER (CIRB - INSERM U1050, Collège de France, Paris, France)
- 11:10 REDV-grafted pericardial extracellular matrix as endothelial cell-selective scaffold in heart valve replacement (selected by SFBMEc)
Annj ZAMUNER (University of Padova, Department of Industrial Engineering, Padova, Italy)
- 11:25 Marker-independent extracellular matrix analysis in personalized medicine applications
Katja SCHENKE-LAYLAND (Faculty of Medicine of the University of Tübingen, Germany)
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- 12:05 Awards ceremony and closing remarks
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- 12:40 Lunch and General Assembly**
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- 13:40 Departure

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