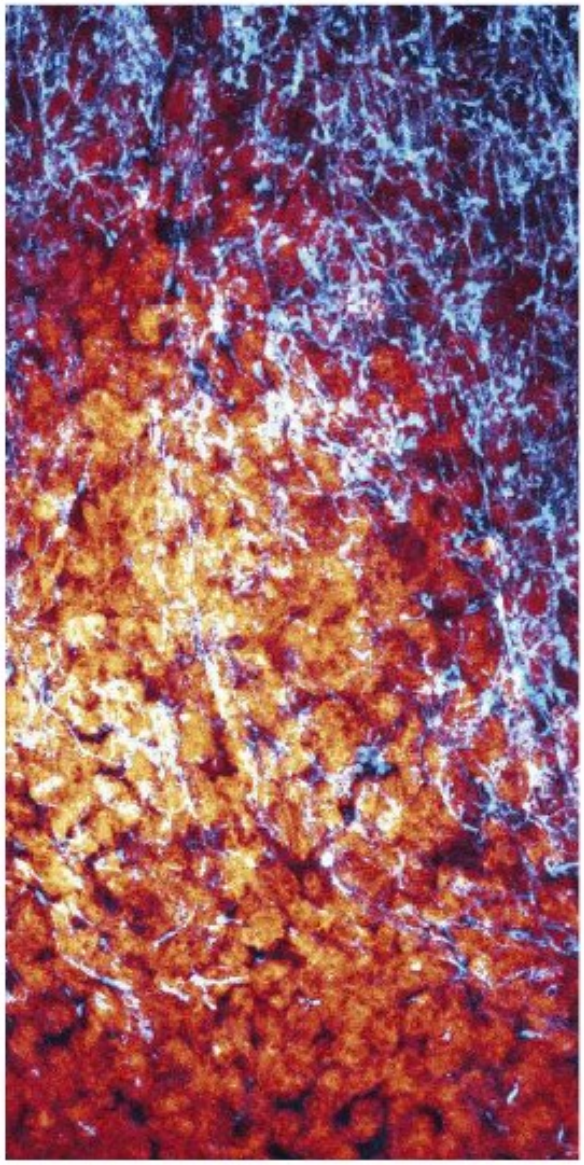
MATRIX BIOLOGY EUROPE 2024

24 -27 SEPTEMBER, 2024

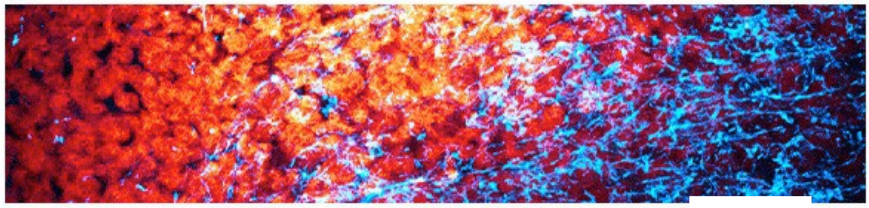
Lyon - France



MBE

MATRIX BIOLOGY EUROPE

POSTER LIST



INSTRUCTIONS FOR POSTER PRESENTERS

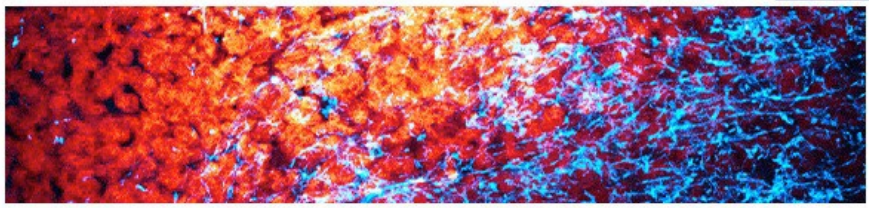
POSTER SESSIONS

The Poster display area will be held in the Atrium
The size of the poster boards is 90 cm wide x 170 cm high (portrait orientation).
Clips will be provided on the poster boards.
Presenters should stand by their poster throughout the entire sessions.

Poster Session 1: Tuesday, afternoon and Wednesday, afternoon
Poster Session 2: Thursday, morning and Thursday, afternoon

ECO-POSTER (hung up throughout the entire meeting)

Go Green! Striving for a Reduced Ecological Footprint in our Research.
Sandrine Vadon-Le Goff (LBTI, University Lyon 1, France).



POSTER SESSION 1 (Atrium)

PL1 - ECM Biosynthesis, Dynamics and Epigenetics

001 Biochemical characterization of a novel disease-causing collagen prolyl 4-hydroxylase I variant.
Sofia Sova (University of Oulu, Finland).

002 The long form of collagen XVIII binds to the plasma membrane via the frizzled domain.
Ueno Tomonori (Nippi Research Institute of Biomatrix, Ibaraki, Japan).

003 An extracellular complex between Punctin/MADD-4 and Collagen XVIII/CLE-1 controls synapse identity in C. elegans.
Mélissa Cizeron (MeLis, University Lyon 1, France).

004 Impact of type I collagen carbamylation on the phenotypic modulation of vascular smooth muscle cells.
Lucile Cadoret (University of Reims Champagne-Ardenne, Reims, France).

005 Insight into the mechanism of action of PCPE-2, the endogenous inhibitor of human BMP-1/tolloid-like proteinases.
Julien Bauer (LBTI, University Lyon 1, France).

006 Studying the dynamics of extracellular matrix proteins.
Anaïs Dumas (MeLiS, University Lyon 1, France).

007 Endocytosed collagen-I trafficking may involve retrograde Golgi to ER transport in human lung fibroblasts.
John Knox (University of Manchester, UK)

008 The function of collagen prolyl 4-hydroxylase III and the role of prolyl 4-hydroxylation in the quality control of collagen secretion.
Emma Karjalainen (University of Oulu, Finland).

009 Viral-mediated fluorescent labelling of hyaluronan reveals extracellular matrix dynamics in live brain tissue.
Mario Fernandez Ballester (Achucarro Basque Center for Neuroscience, Leioa, Spain).

010 The interaction network of the small- leucine-rich proteoglycans.
Romain Rivet (University of Reims Champagne-Ardenne, Reims, France).

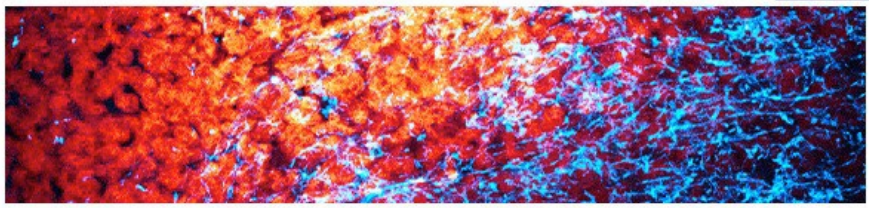
011 Chronic exposure to pollutants photoactivated by UVA1 generates a specific alteration of collagen meshwork, distinct that those produced by each stresses applied separately.
Valérie Haydont (L'Oréal Research and Innovation, Aulnay-sous-Bois, France).

012 Collagen VI microfibril structure reveals mechanism for collagen chain selection and clustering of inherited pathogenic mutations.
Clair Baldock (University of Manchester, United Kingdom).

013 Engineering Mini Collagens for Advanced Structural Analysis.
Mukti Singh (University of Manchester, United Kingdom).

014 Effect of Elastin-Derived Peptides on Tendon Cell Behaviour and Collagen Production.
Shan Lu (University College London, United Kingdom)

015 Suprastructural organisation of collagen VI microfibrils in articular cartilage and their role as mediator of cell-matrix interactions.
Uwe Hansen (Muenster University Hospital, Germany).



016 Unravelling a new ECM stiffening function of the axon guidance molecule netrin-1.
Gaëtan Thivolle Lioux (Cancer Research Centre of Lyon, University Lyon 1, France).

017 The tyrosine phosphatases LAR and PTPRD act as receptors of the nidogen-tetanus toxin complex.
Sunaina Surana (University College London, United Kingdom).

018 Pro148Leu KIF22 mutation affects cartilage morphology, cell orientation and extracellular matrix deposition in a mouse model of SEMDJL2.
Roufaida Bouchenafa (Newcastle University, United Kingdom).

019 Developing solid-state NMR spectroscopy approaches to study extracellular matrices.
Ananya Singh (University of Warwick, United Kingdom).

020 Exploring the TSP-1:CD47 mechanism of interaction by molecular dynamics simulations.
Mariem Ghoula (Apmonia Therapeutics, Reims, France).

WS1 - Stem Cell Niche and Tissue Regeneration

021 hTERT immortalization of mesenchymal stromal cells does not affect the functional properties of secreted extracellular vesicles.
Alessia Brancolini (Evercyte GmbH, Vienna, Austria).

022 Role of collagen XV-B in motor nerve regeneration in zebrafish larvae.
Sandrine Bretaud (IGFL, ENS de Lyon, University Lyon 1, France).

023 The Role of Notch signaling pathway in Fibro-adipogenic progenitors (FAPs) and the consequence on Extracellular matrix proteins.
Oussama Smail (University of Paris-Est Créteil, France).

024 Extracellular vesicles derived from collagen VI mutated myogenic cell lines display potential proinflammatory properties.
Michal Tamáš (University of Padova, Italy).

025 Hydrogel derived from human endometrium decellularized matrix improved the function of endometrial mesenchymal stem cells in tissue regeneration.
Jingwen Xu (University of Hong Kong, SAR China).

026 The matrisome as a driver of acute myeloid leukemia.
Annalena Dittmann (University of Oulu, Finland).

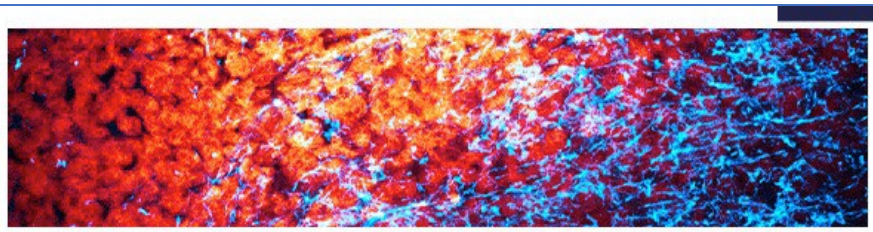
027 Coordinated regulation of intestinal homeostasis and injury repair by CCN1-matricellular signaling.
Joon-Il Jun (University of Illinois at Chicago, United States)

028 Zebrafish as an innovative in vivo model to investigate extracellular matrix dynamics of skin repair.
Hisoilat Bacar (IGFL, ENS de Lyon, University Lyon 1, France).

WS2 - ECM in Inflammation and Immunity

029 A novel serological biomarker targeting a collagen type-I-derived matricryptin predicts all-cause mortality at admission with ST-elevated myocardial infarction.
Emily Martin (Nordic Bioscience, Herlev, Denmark).

030 The Role of Cancer-Associated Fibroblasts in Modulating the Matrix and Immune Cell Landscape in Oral Squamous Cell Carcinoma.
Imane El Herch (Cancer Research Centre of Lyon, University Lyon 1, France).



031 The role of viscoelastic properties of the subventricular zone on progression of experimental encephalomyelitis.
Rafaela Silva (Charité Universitätsmedizin Berlin, Germany).

032 Oncofetal-chondroitin sulfate as a regulator of cancer immunosurveillance.
Anne Martin-Salazar (University of Copenhagen, Denmark).

033 Cochlin LCCL domain promotes anti-bacterial immune response through activation of the cMET and EGFR in epidermal keratinocytes.
Xinyi Bao (University of Freiburg, Germany).

034 Creating order out of chaos - Modelling the influence of chronic inflammation on restoring cardiac structural anisotropy.
Marjolein Ten Dam (Technical University Eindhoven, Netherlands).

035 Hypoxia drives the synthesis of a pro-atherogenic versican-rich extracellular matrix that may be attenuated by heparin.
Christine Chuang (University of Copenhagen, Denmark).

036 Irreversible ECM reprogramming causes intestinal stem cells to perpetuate inflammation during colon regeneration.
Idan Adir (The Weizmann Institute of Science, Rehovot, Israel).

037 Rheumatoid Arthritis: Does Granzyme B make the cut?
Alexandre Aubert (University of British Columbia, Vancouver, Canada).

038 Tenascin-C orchestrates an immuno-suppressive tumor microenvironment in oral cavity cancer impacting radiotherapy.
Thomas Loustau (IUT Louis Pasteur, University of Strasbourg, France).

039 The Interaction Between Extracellular Matrix Organization and Inflammation During Tissue Remodelling.
Hannah Brouwer (Eindhoven University of Technology, Netherlands).

040 Laminin N terminus α31 modulates Akt signaling and changes breast cancer invasive behaviour
Fawziah Asiri (University of Liverpool, United Kingdom)

WS3 - ECM in Development and Morphogenesis

041 Using solid-state nuclear magnetic resonance spectroscopy to probe ECM changes in disease and development.
Wing Ying Chow (University of Warwick, United Kingdom).

042 Human recombinant full-length laminin-111 forms gel under physiological conditions.
Kazunori Mizuno (Nippi Inc., Tokyo, Japan).

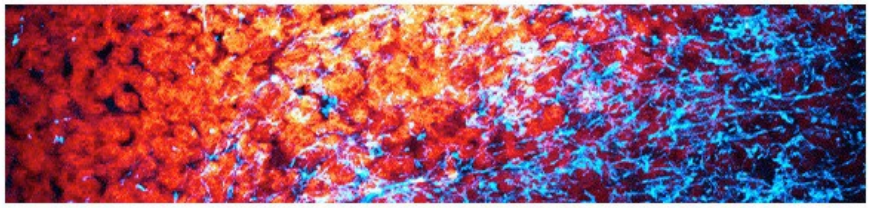
043 Laminin γ1 chain is essential for heart and lung development.
Kinga Gawlik (Lund University, Sweden).

044 Lama3 is a novel regulator of gut homeostasis.
Neta Felsenthal (Curie Institute, Paris France).

045 Matrix first, minerals later: fine-tuned dietary phosphate increases bone formation in zebrafish.
Silvia Cotti (Ghent University, Belgium).

046 Multiomics analysis identifies scleraxis as a negative regulator of neurogenesis in tendons.
Asma Mechakra (ETH Zurich, Switzerland).

047 About the interplay between the cell surface hyaluronidase TMEM2, hyaluronic acid and the primary cilium.
Séverine Bär (GMGM, Strasbourg University, France).



Overdue abstract submission

Understanding the dynamics of the extracellular matrix in the developing human brain
Catalina,Moreno (King's College London, London, UK)

WS4 - ECM in Tissue Repair & Tissue Engineering

048 An in vitro model to investigate the influence of mechanical loading on the mammalian tenocyte circadian rhythm.
Ask Møbjerg (Institute of Sports Medicine Copenhagen, Denmark).

049 Ability of hiPSC-derived fibroblasts to produce and organize an extracellular matrix.
Lucile Guillot (LBTI, University Lyon 1, France).

050 Engineering a Bio-functional fibronectin-like fragment for biomaterials functionalization.
Amina Ben Abla (EBI, Cergy, France).

051 Formulation of a new composite biomaterial for bone tissue engineering.
Hamza Danguir (University Lyon 1, Faculté des sciences, France).

052 Hydrogels incorporating Graphene Oxide modulate intra-articular Hyaluronic acid delivery: advanced treatment for Knee Osteoarthritis.
Francesca Sciandra (SCITEC-CNR, Milan, Italy).

053 Investigation of fibrin hydrogel proteolysis by dental pulp mesenchymal stem cells.
Mourad Bekhouche (LBTI, University Lyon 1, France).

054 Marine Polysaccharides for Vascular Tissue Engineering Applications.
Marilena Formato (University of Sassari, Italy).

055 Seaweed Carrageenan Enhances Matrix Deposition and Affects Genes and Protein Expression in hBMMSC.
Giulia Giuffredi (University College Dublin, Ireland).

056 Lab-grown, 3D Extracellular Matrix Particles Reduce Scar Size and Alter Proteome in Myocardial Ischemia.
Max Petersen (XM Therapeutics, Inc., Providence, RI, United States).

057 Exploring elastogenesis through gene expression and crosslinking mechanisms in in vitro system.
Sofia Silva Salazar (Fraunhofer IMWS, Halle, Germany).

058 Modelling the cellular and basement membrane constituents of the blood-brain barrier.
Yi Ling Tsang (Muenster University Hospital, Germany).

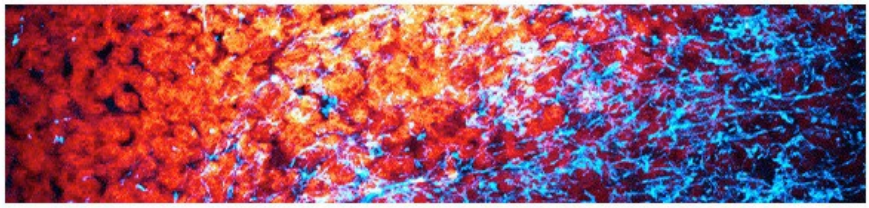
059 A clinical-grade partially decellularized trachea: validation in-vitro and in-vivo in a porcine model.
Lousineh Arakelian (Hôpital Saint Louis, AP-HP, Paris, France).

060 Development of human corneal stromal assemblies using macromolecular crowding.
Dimitrios Zevgolis (University College Dublin, Ireland).

061 Mycolactone causes Sec61-dependent loss of the endothelial glycocalyx and vessel basement membrane: a new indirect mechanism driving tissue necrosis in Mycobacterium ulcerans infection.
Louise Tzung-Harn Hsieh (National Health Research Institutes, Taiwan).

062 Role of PCPE2 (procollagen C-proteinase enhancer 2) in skin homeostasis and wound healing.
Manon Napoli (LBTI, University Lyon 1, France).

063 Spatial landscape of the joint extracellular matrix.
Julia Etich (University of Cologne, Germany).



064 Toward Enhanced Regenerative Therapies: Protein-Engineered Hydrogels for Degenerative Joint Diseases.
Desiré Venegas Bustos (University of Valladolid, Spain).

065 Development and application of an ECM-based organoid-like model to study the window of implantation.
Konstantina Kyriakopoulou (Muenster University Hospital, Germany).

066-1 Self-assembled peptide hydrogels promote epidermal regeneration and epithelialisation of wounds through an extracellular matrix-dependent mechanism.
Chloé Laigle (LBTI, University Lyon 1, France).

066-2 Biomaterial functionalization with triple-helical peptides for cartilage tissue engineering.
Audrey Ziverec (LBTI, University Lyon 1, France).

WS5 - ECM Biomechanics and Mechanobiology

067 Integrin alpha10 is involved in the response of chondrocytes to dynamic compression.
Frédéric Mallein-Gerin (LBTI, University of Lyon 1, Lyon, France).

068 Investigating bone extracellular matrix under mechanical strain.
Kathryn Gerl (University of Cambridge, United Kingdom).

069 Multi-omics profiling of skin matrix remodeling induced by sub-lethal photodynamic therapy.
Cindy Dieryckx (LBTI, University of Lyon 1, Lyon, France).

070 Role of scaffolds macroarchitectures on intra and extracellular biomechanics and osteogenesis of hMSCs: application to bioinstructive materials for large bone defects regeneration.
Alexis Romero (University Jean Monnet, Saint-Etienne, France).

071 Differential microenvironment mechanosensitivity of DPIG is regulated by BMP7 secretion.
Lilia Midjek (Gustave Roussy Institute, Villejuif, France).

072 Fine-tuning of collagen VI turnover by ANTXR2 is critical for skeletal muscle function.
Samuele Metti (EPFL, Lausanne, Switzerland).

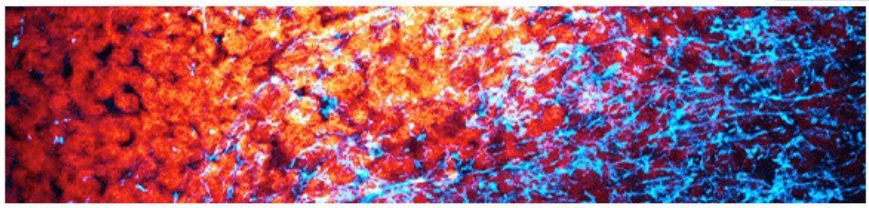
073 Single nucleus resolution of the human hamstring tendon response to acute heavy resistance exercise.
Danielle Steffen (Copenhagen University Hospital, Denmark).

074 Towards an ex-vivo cartilage damage model to study cartilage damage progression and repair.
João Pinheiro (LifeTec, Eindhoven, Netherlands).

075 Large area automated structural and mechanical analysis of biomaterials, cells and tissues by AFM.
Joan-Carles Escolano (JPK BioAFM, Bruker Nano GmbH, Berlin, Germany).

076 Soft extracellular matrix drives an endoplasmic reticulum stress-dependent S quiescence underlying molecular traits of pulmonary basal cells.
Cédric Chaveroux (LBTI, University of Lyon 1, France).

077 Stiffening of suspended fibrous micro-tissues by active forces and compressive deformation.
Jonathan Fouchard (Sorbonne University, Paris, France)



POSTER SESSION 2 (Atrium)

PL2 - ECM Targeting and Signaling in Homeostasis and Cancer

078 MatriTOOLS: Targeted Tools for Deconvoluting the Matrisome in Health and Cancer.
Rijuta Lamba (University of Oulu, Finland).

079 Studying the Effect of ECM Stiffening on Brain Cancer in vivo Using Zebrafish.
Karina Koepke (University Medical Center Groningen, Netherlands).

080 Targeting the MAtrix REgulating MOtif, MAREMO, abolishes several hallmarks of cancer triggering anti-tumor immunity.
Alexia Pavlidaki (University of Strasbourg, France).

081 Targeting the matrix with MAREMO peptides to cause tumor remission.
Ioanna Mitrentsi (Universtiy of Strasbourg, France).

082 Targeting the TSP-1:CD47 interaction in cancer: a non-clinical safety pharmacology study of TAX2 peptide.
Marion Etiennot (Apmonia Therapeutics, Reims, France).

083 The impact of EGFR and IGFR pathways inhibition on extracellular matrix modulation in mammary cancer.
Spyros Kremmydas (University of Patras, Greece).

084 The protease ADAMTS5 controls ovarian cancer cell invasion, downstream of Rab25.
Rachele Bacchetti (University of Sheffield, United Kingdom).

085 The WISP-1/MIF axis promotes the aggressiveness of breast cancer cells.
Stylianos Astaras (University of Patras, Greece).

086 Three dimensional ERbeta-positive breast cancer spheroids: functional properties and differential expression of key matrix components.
Nikolaos Koletsis (University of Patras, Greece).

087 The substrate repertoire of procollagen prolyl-4-hydroxylase isoenzymes and its contribution to coordinating tissue-specific extracellular matrix assembly.
Jean-Baptiste Vincourt (University of Lorraine, Nancy, France).

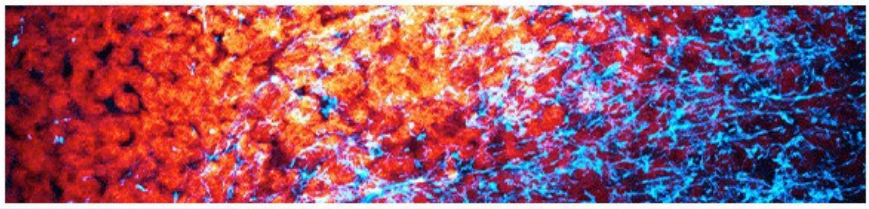
088 Comparative Analysis of Core-Matrisome Profiles in Healthy and COPD Lungs.
Natalia El-Merhie (Institute for Lung Health, Justus Liebig University, Giessen, Germany).

089 Consequences of inactivating the fibronectin synergy site in mammary gland malignant tumors.
Gemma Guerrero Barberà (University of Valencia, Spain).

090 Deciphering the post-radiotherapy matrisome dynamics to understand and target glioblastoma recurrence.
Dimitra Manou (Lund University, Sweden).

091 Design and functional properties of 3D and comparison with 2D cell culture models in breast cancer cells.
Sylvia Mangani (University of Patras, Greece)

092 Dysregulation of intercellular communication in vitro and in vivo via extracellular vesicles secreted by pancreatic duct adenocarcinoma cells and generated under the influence of the AG9 elastin peptide-conditioned microenvironment.
Bertrand Brassart (MEDyC, University of Reims-Champagne-Ardennes, Reims, France).



093 Evaluation of the EGFR and IGFR cross-talk in the expression of matrix components and cell properties in triple-negative breast cancer cells.
Chrisavgi Gourdoupi (University of Patras, Greece).

094 Gremlin Proteins as Novel Mediators in Tendon Inflammation.
Renate Gehwolf (Paracelsus Medical University, Salzburg, Austria).

095 Inhibition of tumour formation by overexpressing LaNt a31.
Bilge Sari (University of Liverpool, United Kingdom).

096 LaNt α31 Causes Leaky Blood Vessels.
Aeshah Hassan (University of Liverpool, United Kingdom).

097 LRP-1 a key modulator of TBNC progression.
Maxence Mocquery-Corre (MEDyC, University of Reims-Champagne-Ardennes, Reims, France).

098 MCL-1 expression in breast cancer-associated fibroblasts modulates their extracellular matrix properties enhancing luminal breast cancer cells chemoresistance.
Chloé Lefebvre (Nantes University, France).

099 Novel 3D culture substrate for organoids containing collagen, laminin-E8, and hyaluronan.
Alex Sim (AMSBIO Europe BV, Abingdon, United Kingdom).

100 Role of Discoidin Domain Receptor 1 (DDR1) in cell migration and invasion in colorectal cancer.
Mathilde Roumieux (MEDyC, University of Reims-Champagne-Ardennes, Reims, France).

101 Study of the EGFR and JAK/STAT signaling pathways in the expression of glypicans in cancer cell lines.
Paraskevi Ioannou (University of Patras, Greece).

102 Architectural organization of the basement membrane and permeability to cell infiltration.
Frédéric Luton (University Côte d'Azur, Valbonne, France).

103 Dynamic dysregulation of Tenascin-X in favour of its pro-tumoral counterpart, tenascin-C leads to tumoral cell proliferation during pancreatic carcinogenesis.
Céline Schmitter (LBTI, University Lyon 1, France).

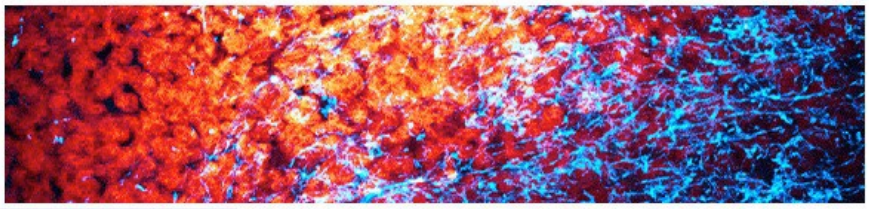
104 Stiffness-induced cancer-associated fibroblasts are responsible for immunosuppression in a PDGF ligand-dependent manner.
Mélissa Masmoudi (Cancer Research Centre of Lyon, University Lyon 1, France).

105 The roles of collagen synthesis enzymes in tumorigenesis and metastasis, with focus on tumor stroma and pancreatic cancer as a model.
Linda Birgisdóttir (University of Oulu, Finland).

106 ADAM12 may be involved in poor prognosis of colorectal cancer patients via poorly differentiated cluster formation.
Satsuki Mochizuki (National Defense Medical College, Saitama, Japan).

107 Added value of the extracellular matrix in cancer: how to target the matrisome for therapy.
Laurent Fattet (Centre de Recherche en Cancérologie de Lyon, France).

108 Allosteric Anti-KLK4 Antibody Development for Targeted Anti-Cancer Effects in Ovarian Carcinoma.
Nikolaos Afratis (Weizmann Institute of Science, Rehovot, Israel).



109 Development of a Peptide Targeting Tumor Angiogenesis and Progression in Colorectal Cancer.
Vivien Paturel (University of Reims Champagne-Ardenne, UMR 7369, France)

110 Targeting collagen XVIII improves the efficacy of ErbB inhibitors in breast cancer models
Ritva Heljasvaara (University of Oulu, Finland).

111 Tracking metabolic changes for targeting malignant peripheral nerve sheath tumors.
Martina La Spina (University of Padua, Italy).

112 Tumour-derived Laminin α5 is essential for luminal breast cancer initiation.
Johanna Englund (Institute of Biotechnology, Helsinki, Finland)

113 Sulfated hyaluronan's anticancer effect on breast cancer: insights from 3D culture models and in vivo studies
Nikos Karamanos (University of Patras, Greece)

114 Potential implication of Granzyme B in Keloid and Hypertrophic Scars through the cleavage of LTBP-1.
Alexandre Aubert (University of British Columbia, Vancouver, Canada).

115 A first in class pan-lysyl oxidase inhibitor in combination with chemotherapy significantly improves response to therapy and decreases metastasis in pancreatic cancer.
Jessica Chitty (Garvan Institute of Medical Research, Darlinghurst, Australia).

WS6 - ECM Remodeling and Fibrosis

116 Ascorbic acid and hypoxia promote fibrogenesis via distinct mechanisms.
Méline Ricol (LBTI, University Lyon 1, Lyon, France).

117 The Crucial Role of Tolloid Proteinases in Bone Biology: Alterations of Collagen Fibril Morphology and Osteoblast Mineralization.
Daniel Kronenberg (University of Muenster, Germany).

118 Type III collagen remodeling biomarkers are a potential tool to differentiate between idiopathic pulmonary fibrosis and hypersensitivity pneumonitis.
Georgia Christoforidou (Nordic Bioscience, Herlev, Denmark).

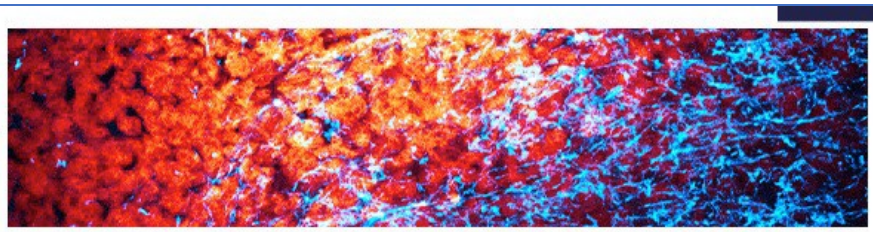
119 WISP1 as a Modulator of Inflammation and Oxidative Stress in COPD Airway Smooth Muscle Cells.
Maria Elpida Christopoulou (University of Freiburg, Germany).

120 Anti-fibrotic potential of a C-terminal-domain modulator of TRAP1 encapsulated in hyaluronic acid-decorated liposomes.
Marie Vaudelle (Paris-Saclay University, Orsay, France).

121 Characterization of Cancer Associated Fibroblasts from mammary gland tumors expressing fibronectin with the synergy site inactivated.
Natalia Burday (University of Valencia, Spain).

122 Degradation of the alveolar basement membrane type IV collagen alpha-3 chain is associated with pulmonary hypertension, mortality, and antifibrotic treatment in idiopathic pulmonary fibrosis.
Annika Hummersgaard Hansen (Nordic Bioscience, Herlev, Denmark).

123 Evaluating Cancer-Associated Fibroblasts Activity and Collagen Expression Profiles Using Clinically Validated Biomarkers.
Annika Hettich (Nordic Bioscience, Herslev, Denmark).



124 Functional characterisation of the cardiovascular protease ADAMTS8.
Tina Burkhard (University of Surrey, United Kingdom).

125 Human skeletal muscle fibrosis in different myopathies: study of the extracellular matrix composition and role of Fibro-adipogenic progenitors.
Laura Muraine (Myology Institute, Paris, France).

126 Investigating Collagen Maturation Biochemistry Through Recombinant Mini Procollagens.
Oskar Lipiński (LBTI, University Lyon 1, France).

127 Proteomics Analysis of skeletal muscle Extracellular Matrix in dystrophic mice.
Antonio Moretta (INMG, University Lyon 1, France).

128 Osteoprotegerin and fibulin-1 form a regulatory complex in lung fibrosis.
Yanzhe Liu (University of Groningen, Netherlands).

129 Dipeptidyl peptidase-4-mediated fibronectin processing in pro-fibrotic extracellular matrix assemblies.
Karina Zeyer (University of Freiburg, Germany).

130 Label-free monitoring of fibrotic tissue remodeling and cellular infiltration.
Julia Marzi (Eberhard Karls University Tuebingen, Germany).

131 N-Terminal proteomics reveals distinct patterns of extracellular matrix degradation and protein fragmentation in different types of human atherosclerotic plaques.
Michael Davies (University of Copenhagen, Denmark).

132 Selective inhibition of elastolytic activity of cathepsin S by marine exopolysaccharides.
Fabien Lecaille (University of Tours, France).

133 Uncoupling hypertension from cardiac remodeling.
Peleg Hasson (The Rappaport Faculty of Medicine, Technion, Haifa, Israel).

134 Targeted LOX inhibition to fibrotic macrophages enhances muscle function in Duchenne Muscular Dystrophy
Anas Odeh (The Rappaport Faculty of Medicine, Technion, Haifa Israel)

WS7 - ECM Ageing

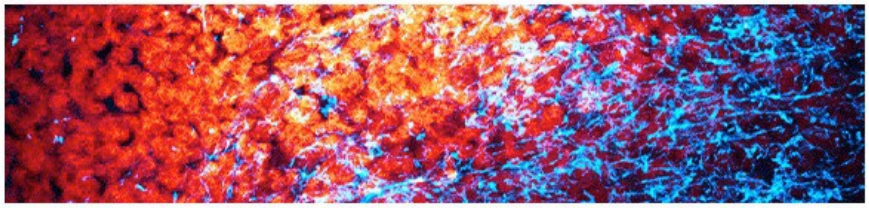
135 Aging affects bone and intervertebral disc in FGFR3-related mouse model.
Chantal Fayad (Imagine Institute, Paris, France).

136 Functional and structural characterization of Glycosaminoglycans from Platelet Rich Plasma for application in Osteoarthritis.
Chayma Saadan (University of Paris-Est Créteil, Créteil, France).

137 Structure/Function characterization of matrix heparan sulfate and associated proteoglycans in senescent synoviocytes during Osteoarthritis.
Amina Boukhobza (University of Paris-Est Créteil, Créteil, France).

138 Contribution of norepinephrine and the ageing sympathetic nervous system to spine regeneration.
Matteo Signor (University Hospital Frankfurt, Goethe University, Frankfurt am Main, Germany).

139 Insights in the adult skeletal phenotype of an animal model of diastrophic dysplasia.
Asifa Khan (University of Pavia, Italy).



140 Investigating the therapeutical role of Primary Cilia in Connective Tissue Diseases.
Gianluca Ricci (Medetia Pharmaceuticals, Paris, France).

141 Unrevealing the multi-organ consequence of osteogenesis imperfecta in aging.
Wendy Pérez Franco (University of Pavia, Italy).

142 Unveiling early aging in collagen VI Bethlem myopathy using a zebrafish.
Shivashakthi Shivaraman (IGFL, ENS de Lyon, University Lyon 1, France).

143 Identification of C5aR as a new interaction partner of membrane sialidase NEU1: potential implication of the elastin receptor complex in the regulation of the complement system.
Pascal Maurice (MEDyC, University of Reims Champagne-Ardenne, Reims, France).

144 Modulation of platelet interaction with collagen by carbamylation, a non-enzymatic post-translational modification occurring during pathophysiological vascular aging.
Pascal Maurice (MEDyC, University of Reims Champagne-Ardenne, Reims, France).

145 The consequences of senescent fibroblasts' immunoevasion in skin aging.
Laurie Verzeaux (R&D Department, SILAB, Brive, France).

146 Investigating the interaction between senescence and collagen IV in age-dependent vascular disease.
Omar Merhi El Hassan El Abdallah (University of Glasgow, United Kingdom).

PL3 - ECM-related Inherited Diseases

147 Unraveling COL4A1 and COL4A2 variants: a review.
Merlijn Nemegeer (University of Antwerp, Belgium).

148 The chemical chaperone 4-phenylbutyric acid rescues molecular cell defects of COL3A1 mutations that cause vascular Ehlers Danlos Syndrome.
Tom Van Agtmael (University of Glasgow, United Kingdom).

149 Reduced collagen IV levels due to COL4A1/2 variants cause small vessel disease and hemorrhagic stroke via hypertrophic remodeling and endothelial cell dysfunction.
Tom Van Agtmael (University of Glasgow, United Kingdom).

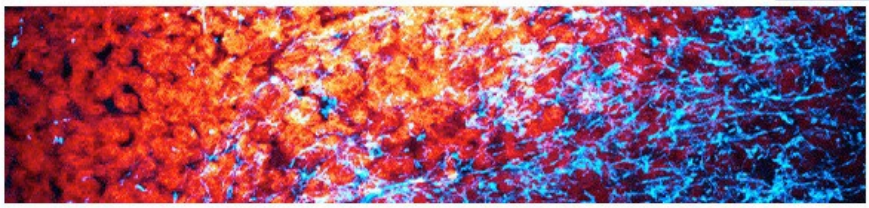
150 Matrix remodelling via MMP-2/9 in haemorrhagic stroke and cerebral small vessel disease due to collagen IV mutations.
Cameron Thomson (University of Glasgow, United Kingdom).

151 How extracellular matrix can modulate ectopic calcification in Pseudoxanthoma elasticum: new findings from the fibroblasts' secretome.
Francesco Demetrio Lofaro (University of Modena, Italy).

152 Investigating the role of collagen VI at the myotendinous junction in the mouse model of COL6-related myopathies.
Matilde Cescon (University of Padova, Italy).

153 Oral tissue remodeling impairement associated with hyperhomocysteinemia in patient: a first case description.
Karim Senni (Dental Square Clinic, Beyrouth, Lebanon).

154 Integrative Analysis of Extracellular Matrix Degradation and Polygenic Risk of Lung Function Decline for Improved Prediction of Chronic Obstructive Pulmonary Disease Progression.
Line Egerod (University of Copenhagen, Denmark).



155 Loss of function variants of ADAMTSX involved in a new syndrome related to Marfan syndrome.
Carine Le Goff (Paris-Sud University, Paris, France).

156 Pinpointing candidate pathomechanistic actors of biglycan-related disease by mRNA-sequencing.
Anne Hebert (University of Antwerp, Belgium).

157 Profiling of colon extracellular matrix reveals tumor and side-specific features
Ângela Magalhães (University of Porto, Portugal).

158 Drug repurposing screens in zebrafish unveil new therapeutic targets in COL6-related myopathies
Chiara Consorti (University of Padova, Italy).

159 Functional analysis of novel variant in COL5A1 in Polish patient with classical type of Ehlers-Danlos syndrome.
Anna Junkiert-Czarnecka (Nicolaus Copernicus University, Toruń, Poland).

160 The role of the Furin-like-convertase cleavage site of the α3(VI) chain in collagen VI assembly and function
Arthur Pasanen-Zentz (University of Cologne, Germany).

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"MEET THE SPONSORS" ON TUESDAY, 24 SEPTEMBER (STANDING TABLES, ATRIUM)
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