



Science Web-in-hour

Biomedical Research Webinars

Faculty of Medicine, ULB

On Thursdays at 1 PM

Année académique 2020-2021

January

14th of January

Alessia Centonze

Laboratory of Stem cells and Cancer, ULB, Brussels

“Heterotypic cell-cell communication regulates glandular stem cell multipotency”

#StemCell #MammaryGland #scRNAseq #Mice

Invited by Benjamin Swedlund, Laboratory of Stem cells and Cancer, ULB

21st of January

Giulia Boezio

Department of Developmental Genetics, Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany

“Endothelial TGF- β signaling instructs smooth muscle cell development in the cardiac outflow tract” **#Heart #Zebrafish #TGF- β #Development**

Invited by Pierre Gillotay, Interdisciplinary Research Institute (IRIBHM), ULB

28th of January

Aurélie Lacroix

Sixfold bioscience, London, United Kingdom

“Building nanostructures with DNA and RNA for biomedical applications and targeted drug delivery”

#DNA-RNA #DrugDelivery #Nanoparticles

Invited by Xavier Bisteau, Interdisciplinary Research Institute (IRIBHM), ULB

February

4th of February

Shila Ghazanfar

Cancer Research UK Cambridge Institute, University of Cambridge, Cambridge, UK

PI: John Marioni

“Highly multiplexed spatially resolved gene expression profiling of mouse organogenesis”

#Organogenesis #GeneExpressionPatterns #DigitalInSitu

Invited by Benjamin Swedlund, Laboratory of Stem cells and Cancer, ULB

11th of February

Kadi Löhmußaar

Hubrecht Institute, Royal Netherlands Academy of Arts and Sciences and UMC Utrecht, Utrecht, the Netherlands

PI : Hans Clevers

“Organoids as a promising new tool to study ovarian cancer” #Organoids #OvarianCancer

#CRISPR

Invited by Alessia Centonze, Laboratory of Stem cells and Cancer, ULB

18th of February

Chris Soon Heng Tan

Chemistry Department, Southern University of Science & Technology (SUSTech), Shenzhen, China

“Toward cell- and condition-specific protein interaction networks for understanding

human diseases” #MassSpec #Proteomics #Interactomics

Invited by Xavier Bisteau, Interdisciplinary Research Institute (IRIBHM), ULB

25th of February

Elisa Nerli

Instituto Gulbenkian de Ciência (IGC), Lisbon, Portugal & Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany PI: Caren Norden

“A matter of balance: how the developing retina regulates proliferation and differentiation” #Retina #Neurogenic #Notch #endosome

Invited by Romain Darche, Interdisciplinary Research Institute (IRIBHM), ULB

March

4th of March

Jesús Pérez-Ortega

Neurotechnology Center, Columbia University, New York, USA PI: Rafael Yuste

“Long-term stability of neuronal ensembles” #NeuronalEnsembles #Stability #VisualCortex
#TwoPhoton #VolumetricImaging

Invited by Alejandra Cáceres, Laboratory of Neurophysiology, ULB

11th of March

Brent van der Heyden

KULeuven, Laboratory of Experimental Radiotherapy, Department of Oncology

PI : Edmond Sterpin

“How Artificial Intelligence changes the way radiotherapy and medicine are performed” #Artificial Intelligence #Radiotherapy #Medical Imaging

Invited by Wadsen Saint-Pierre Wijckmans, Laboratory of Signal Transduction and Metabolism, ULB

18th of March

Sergi Junyent Espinosa

Centre for Stem Cells and Regenerative Medicine, King's College London

PI: Shukry Habib

“How do stem cells organize themselves?” #stem cell communication #self-organization #eSC
#synthetic embryo structures #Wnt

Invited by Adria Razzauti, Laboratory of Neurophysiology, ULB

25th of March

Gaëtan Juban

Institut NeuroMyoGène, CNRS 5310 - Inserm U1217 - Université Claude Bernard Lyon 1

PI: Bénédicte Chazaud

“Control of macrophage inflammatory shift during normal and pathological skeletal muscle regeneration” #inflammation resolution #tissue repair #macrophages #Duchenne Muscular Dystrophy

Invited by Jérôme Bonnefont, Interdisciplinary Research Institute (IRIBHM), ULB

April

1st of April

Corentin Claeys Bouuaert

Louvain Institute of Biomolecular Science and Technology, Université Catholique de Louvain, Belgium

“Novel insights into the formation of meiotic DNA double-strand breaks”

#Meiosis #DNA damage #Homologous Recombination, #Phase separation

Invited by Xavier Bisteau, Interdisciplinary Research Institute (IRIBHM), ULB

8th of April

Lisa Crozier

University of Dundee, UK PI : Adrian Saurin

“CDK4/6 inhibitors induce replication stress to cause long-term cell cycle withdrawal”

#CDK4/6 inhibitors #Replication stress #Cell cycle #G1 arrest

Invited by Xavier Bisteau, Interdisciplinary Research Institute (IRIBHM), ULB

15th of April

Mirna Kramar

Laboratoire de Physique Théorique CNRS, École Normale Supérieure & Laboratoire Physico-Chimie, Institut Curie, Université Pierre et Marie Curie-Paris 6, Paris, France PI: Karen Alim

“Encoding memory in a living flow network”

#Decision Making #Nonneural Cognition #Flow Networks

Invited by Pierre Gillotay, Interdisciplinary Research Institute (IRIBHM), ULB

22nd of April

Peggy Sotiropoulou

Head of Research and Development at Celyad Oncology

“Engineering CARs to drive effective anti-cancer therapies”

#CAR-T cells #Non-gene edited allogeneic T-cells #NK cell ligands #Cancer

Invited by Xavier Bisteau, Interdisciplinary Research Institute (IRIBHM), ULB

29th of April

Christophe Chapard

Pasteur Institute, Genomes and Genetics department, Paris PI: Romain Koszul

“Sister DNA are shaped and entrapped by cohesin complexes”

#DNA entrapment #cohesion #Kleisin compartment #Budding yeast #DNA loops

Invited by Jérôme Bonnefont, Interdisciplinary Research Institute (IRIBHM), ULB

May

6th of May

Philipp Geyer

CSO - Chief Scientific Officer of OmicEra Diagnostics, Germany

“High-throughput plasma proteomics and applications to COVID-19”

#Plasma proteomics #Biomarker #Study design #High-throughput #COVID

Invited by Xavier Bisteau, Interdisciplinary Research Institute (IRIBHM), ULB

Meeting will be recorded

20th of May

Daniel Wehner

Max Planck Institute for the Science of Light & Max-Planck-Zentrum für Physik und Medizin, Erlangen, Germany

“A switch in extracellular matrix composition prevents inhibitory scarring and promotes axon regeneration in the zebrafish spinal cord” **#Spinal cord injury #Axon regeneration**

#Fibroblast #Zebrafish #ECM

Invited by Pierre Gillotay, Interdisciplinary Research Institute (IRIBHM), ULB

Meeting will not be recorded

27th of May

Alizée Vercauteren Drubbel

Interdisciplinary Research Institute (IRIBHM), ULB, Belgium PI: Benjamin Beck

“Reactivation of the Hedgehog pathway in esophageal progenitors turns on an embryonic-like program to initiate columnar metaplasia” **#Barrett’s esophagus #Cell plasticity**

#Dedifferentiation #Metaplasia #Progenitors #Transdifferentiation

Invited by Xavier Bisteau, Interdisciplinary Research Institute (IRIBHM), ULB

Meeting will be recorded

June

3rd of June

Baptiste Libé-Philippot

VIB-KULeuven Center for Brain & Disease Research, KULeuven Department of Neurosciences, Leuven Brain Institute, Belgium PI : Pierre Vanderhaeghen

“The role of hominid-specific proteins in neuronal maturation”

#Synapse development #Human neuronal development & evolution #Hominid-specific gene

Invited by Wadsen Saint-Pierre Wijckmans, Laboratory of Signal Transduction and Metabolism, ULB

10th of June

Luisa Weiss

Conway institute, University College Dublin, Ireland PI : Patricia Maguire

“Modulation of Extracellular Vesicle Signatures by Rivaroxaban Compared to Warfarin in Patients with Thrombosis”

#Thrombosis #Extracellular vesicles #Translational

Invited by Meghna Shankar, Interdisciplinary Research Institute (IRIBHM), ULB

17th of June

Julia Hatzold

Institute for Zoology, Developmental Biology Unit, University of Cologne, Cologne, Germany PI: Matthias Hammerschmidt

“Hypotonic stress combined with loss of epithelial polarity activates an Matriptase-dependent oncogenic pathway in a zebrafish epidermal tumor model” # Basal cell carcinogenesis #Epithelial polarity #Stem cells # Zebrafish

Invited by Meghna Shankar, Interdisciplinary Research Institute (IRIBHM), ULB

24th of June

Anna Poetsch

Biotechnology Center, Technical University Dresden/ National Center for Tumour diseases Dresden, Germany

“The genomics of oxidative DNA damage, repair, and mutagenesis” #AP site #BER #Cancer #DNA damage #Epigenetics #Genomics #Mutagenesis #Oxidative stress #ROS

Invited by Xavier Bisteau, Interdisciplinary Research Institute (IRIBHM), ULB