

**10<sup>th</sup> International Symposium Europe China on *Stem Cells and Regenerative Medicine***

***Nancy (France) 9-10 October 2024***

**and**

**1<sup>st</sup> Meeting of the CNRS International Research Network IRN CeSMER 0851 France-China**

***Nancy (France) 11 October 2024***

**- Scientific program -**

**Wednesday 9<sup>th</sup> October**

*Location: Amphithéâtre - Muséum-Aquarium de Nancy (13, Rue Godron, 54000 Nancy)*

13h30-15h00

**Opening Ceremony**

15h00-17h30

**Session 1: Biomechanics, Mechanobiology & Innovative scaffold**

Plenary Lecture

15h00-15h30

- **LAURENT C.** - LEM3, Université de Lorraine

*The mistakes we all make in using mechanical stimulation for tissue regeneration*

15h30-16h30

Coffee Break

Visit of the Museum

Oral presentations

16h30-17h30

- 16h30-16h45: **LIU Y.** - Zhongnan Hospital of Wuhan University

*Point-of-care testing of cancer indels using an engineered ascpf1 protein*

- 16h45-17h00: **HENRIONNET C.** - UMR 7365 CNRS-UL IMoPA

*Impact of type I collagen enrichment of an alginate-based bioink on the quality of cartilage substitutes produced by 3D bioprinting*

- 17h00-17h15: **SCHIAVI-TRITZ J.** - LRGP - Université de Lorraine

*Mechanobiological approach of the bioproduction of secretome from Wharton jelly mesenchymal stromal cells*

- 17h15-17h30: **CHATELIN S.** - University of Strasbourg, CNRS, Inserm, ICube UMR 7357

*Multimodal elastography: multi-scale, non-invasive biomechanical characterization of cells, tissues and organs using medical*

**Group photo**

19h00

**Gala Dinner**

**Thursday 10<sup>th</sup> October**

*Location: Amphithéâtre LEPOIS – Faculté de Médecine, Maïeutique et Métiers de la Santé*

9h00-12h15

**Session 2: Interactions cells/scaffold and cells/environment**

Plenary Lectures :

- 9h00-9h30: **ALBANESE P.** - Faculty of Sciences and Technology, University Paris-Est Créteil

9h00-10h10

*Optimization of stem cell properties by Heparan sulfate mimetics: towards new therapeutic strategies for the treatment of osteoarthritis*

- 9h30-10h00: **CHEN Y.** - School of Basic Medical Sciences, Wuhan University  
*Chemical, physical and biological strategies to modify cellulose/ soy protein composites-based nerve conduits for peripheral nerve regeneration*

Sponsors

- 10h00-10h10: **IOCHEM C.** - Agilent Technologies  
*Explore Agilent cell analysis technologies to gain deeper insight into stem cell function and uncover mechanisms involved in cellular reprogramming and differentiation*

10h10-11h15

**Coffee Break** sponsored by Miltenyi  
**Posters for all sessions**

Oral presentations

- 11h15-11h30: **LI Y.P.** - School of Basic Medical Sciences, Wuhan University  
*Hypoxia preconditioning improves quality of mesenchymal stem cells and empowers their immunoregulatory potential*
- 11h30-11h45: **WIEDEMANN-FODÉ E.** - LRGP CNRS Université de Lorraine  
*Development of a mechanical bioprocess to stimulate stem cells for regenerative medicine*
- 11h45-12h00: **BREZILLON S.** - Université de Reims Champagne-Ardenne, UMR CNRS, 7369 MEDyC  
*Characterization of small size extracellular vesicles from Wharton's jelly mesenchymal stem cells during in vitro expansion and study of CXCR4 expression*
- 12h00-12h15: **HAN S.** - School of Basic Medical Sciences, Wuhan University  
*Neurotoxic A1 astrocytes promote neuronal ferroptosis in epilepsy*

12h15-14h00

**Lunch**

14h00-17h15

### Session 3: Cell Engineering

Plenary Lectures :

14h00-15h10

- 14h00-14h30: **KADRI N.** - Karolinska Institutet, Stockholm  
*Bringing Mesenchymal stromal cells into the clinic*
- 14h30-15h00: **CAILLAT-ZUCMAN S.** - INSERM UMR976, Université Paris Cité  
*Use of Mucosal Associated Invariant T (MAIT) cells as a new platform for universal CAR-expressing cells.*

Sponsors :

- 15h00-15h10: **SQUIBAN P.** - Health & Biotech France  
*Umbilical Cord Stem Cells for Cell Therapy & Regenerative Medicine*

15h10-16h15

**Coffee Break** sponsored by Takara Bio  
**Posters for all sessions**

Oral presentations

16h15-17h15

- 16h15-16h30: **LI Z.** - School of Medicine, Nankai University  
*Delivering Line1 antisense oligonucleotides via endothelial targeting extracellular vesicles to ameliorate myocardial infarction-induced cardiac senescence*
- 16h30-16h45: **GUIMARAES J.A.** - UMR 7365 CNRS-UL IMoPA  
*CAR-VST as a promising candidate to produce allogeneic CAR-T*
- 16h45-17h00: **AUDOUX K.** - LRGP - CNRS Université de Lorraine  
*Effect of the oxygenation on the growth of human Wharton's jelly-mesenchymal stromal cells and extracellular vesicles production in mixed*
- 17h00-17h15: **DECOT V.** - UMR 7365 CNRS-UL IMoPA  
*Example of improvement of the antitumor potential of natural killer cells without gene modification: arming NK cells against medulloblastoma with anti-HER antibodies*

17h15-18h00

### Concluding Session

**Friday 11<sup>th</sup> October (Only for IRN Members)**

*Location: ED15 – Faculté de Médecine, Maïeutique et Métiers de la Santé*

9h00-12h00

### Round-table meeting

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