

21 - 23 SEPTEMBER 2022 / Louvain-la-Neuve, Belgium

PROGRAM



Tuesday 20 SEPTEMBER 2022

7:00 pm - 8:30 pm International Networking

DAY 1 - Wednesday 21 SEPTEMBER 2022

07:45 - 08:30 am Registration & coffee

08:30 - 09:00 am Welcome speech by organisers and officials

SESSION 1

Cell therapy

Chairs: Sophie Vèriter, Independent Consultant (Belgium) and Nicolas L'Heureux, University of Bordeaux (France)

09:00 - 09:45 am **Keynote:** Arnaud Scherberich, University of Basel - Basel (Switzerland)

09:45 - 10:10 am **Keynote:** Denis Dufrane, Novadip - Mont Saint-Guibert (Belgium)

10:10 - 10:40 am Coffee Break

10:40 - 11:05 am **Keynote:** Stefan Braam, Ncardia - Leiden (Netherlands)

11:05 - 11:30 am **Keynote:** Etienne Sokal, Cellaion - Mont Saint-Guibert (Belgium)

11:30 am - 12.30 pm **Short presentations**

- The teeth: an unexpected tissue type containing promising stem cells for tissue regeneration. *Annelies Bronkaers, Faculty of Medicine and Life Sciences, Biomedical Research Institute - BIOMED, UHasselt - Hasselt University (Belgium)*
- Preclinical subcutaneous transplantation of a bio-pancreas optimized for O2 as an innovative therapy for type 1 diabetes. *Sawsen Beki, Ecole Nationale Vétérinaire/Laboratoire d'Immuno-endocrinologie Cellulaire et Moléculaire- Nantes (France)*
- Liver-derived signaling cells improve senescence and modulate ductular reaction in biliary cirrhosis. *Giulia Jannone, Pediatric Hepatology and Cell Therapy Unit, IREC, UCLouvain (Belgium)*
- Canonical pro-inflammatory response of osteoarthritic human chondrocytes differs from that of non-osteoarthritic human chondrocytes. *Anaïs Defois, RMeS - Nantes (France)*

12:30 pm - 2:00 pm Lunch - **Poster Session** (Authors in front of their poster from 13h15 to 13h45)

SESSION 2

Decellularization

Chairs: Lisa White, University of Nottingham (United Kingdom) and Christiani Amorim, UCLouvain (Belgium)

2:00 - 2:45 pm **Keynote:** Nicolas L'Heureux, University of Bordeaux - Bordeaux (France)

2:45 - 3:05 pm **Keynote:** Diletta Trojan, Fondazione Banca dei Tessuti di Treviso Onlus - Treviso (Italy)

3:05 - 3:30 pm **Keynote:** Jeff Ross, MiroMatrix - St-Paul (USA)

3:30 - 4:00 pm Coffee Break

4:00 - 4:45 pm **Short presentations**

- A naturally derived crosslinking agent for extracellular matrix hydrogel modulation. *Lisa White, Biodiscovery Institute, University of Nottingham (UK)*
- Minimum concentration and time to obtain a decellularized extracellular matrix from ovarian tissue. *Cecibel Léon, Laboratory of Animal Reproduction, University of Brasília (Brazil)*

6:30 - 8:00 pm Welcome party

DAY 2 - Thursday 22 SEPTEMBER 2022

08:00 - 08:30 am Welcome Coffee

SESSION 3

3D Printing vs Bioprinting

Chairs: Karine Glinel, UCLouvain (Belgium) & Christine Jérôme, Uliège (Belgium)

08:30 - 09:15 am **Keynote:** Daniel J. Kelly, Trinity College Dublin - Dublin (Ireland)

09:15 - 09:40 am **Keynote:** Gabriel Liguori, TissueLabs - Manno (Switzerland)

09:40 - 10:05 am **Keynote:** Dr. Carlos Mota, Maastricht University - Maastricht (Netherlands)

10:05 - 10:35 am Coffee Break

10:35 - 11:50 am

Short presentations

- Regenerative Medicine and Skeleton, Organo-mineral 3D-Printed Scaffolds for Bone Regeneration. *Baptiste Charbonnier, Nantes Université, Oniris, CHU Nantes, INSERM (France)*
- Enzymatically crosslinked hydrogel for salivary gland tissue engineering application. *Maryam Hajiabbas, Laboratory of Pathophysiological and Nutritional Biochemistry, Faculty of Medicine, Université Libre de Bruxelles (Belgium)*
- Towards the challenges of 3D bioprinting for salivary glands (SG) regeneration: Novel, dually crosslinked biomaterial inks for fabricating complex SG vascularized scaffolds utilizing coaxial printing approach. *Julia Simińska-Stanny, BioMatter-Biomass Transformation Lab (BTL), Université Libre de Bruxelles (Belgium)*
- An original method to obtain muscle derived stem cells and their use for musculo-skeletal regeneration. *Didier Serteyn, Université de Liège/Revatis S.A. (Belgium)*

11:50 am - 12:40 pm **Sponsor presentations**

12:40 - 2:00 pm Lunch - **Poster Session** (Authors in front of their poster from 13h15 to 13h45)

SESSION 4

Extracellular Vesicles

Chairs : Catherine Le Visage, Nantes Université (France) FR and Alain Colige, Uliège (Belgium)

2:00 - 2:45 pm **Keynote:** Elena V. Batrakova, University of North Carolina - Chapel Hill (USA)

2:45 - 3:05 pm **Keynote:** Thibaut Fourniols, Everzom - Paris (France)

3:05 - 3:30 pm **Keynote:** Marie Morille, University of Montpellier - Montpellier (France)

3:30 - 4:00 pm Coffee Break

4:00 - 5:00 pm

Short presentations

- Use of intervertebral disc cells from sheep to evaluate biotherapies in vitro. *Paul Humbert, Nantes Université, RMeS (France)*
- Extracellular vesicles isolated from human dental stem cells as drug delivery vehicles for neurological diseases. *Viridiane Gratpain, Advanced Drug Delivery and Biomaterials (ADDB), Louvain Drug Research Institute (LDRI), UCLouvain- Brussels (Belgium)*
- Regenerative Medicine and Skeleton, Using osteocytes-derived extracellular vesicles for bone regeneration. *Floriane Kellner, Nantes Université, Oniris, CHU Nantes, INSERM (France)*
- Extracellular Vesicles from Microalgae (MEVs) are effective delivery systems in human therapeutics, and in the frame of gene therapy. *Manuel Vega, AGS therapeutics (France)*

5:10 - 6:10 pm **B2B Session and «Short pitch competition for PHd Students»**

6:10 - 7:30 pm Free time - Hotel

7:30 - 11:00 pm Gala Dinner

DAY 3 - Friday 23 SEPTEMBER 2022

08:00 - 08:30 am Welcome Coffee

SESSION 5

Translational tissue repair

Chairs: Claire Vinatier, Nantes Université (France) & Pauline de Berdt, Cellaion (Belgium)

08:30 - 09:15 am **Keynote:** Phillip Blondeel, Ghent University - Ghent (Belgium)

09:15 - 10:00 am **Keynote:** Giuseppe Orlando, Wake Forest University - Winston-Salem (USA)

10:00 - 10:25 am **Keynote:** Martin Ehrbar, University of Zurich - Zurich (Switzerland)

10:25 - 10:50 am **Keynote:** Liesbet Geris, University of Liege (Belgium)

10:50 - 11:20 am Coffee Break

11:20 am - 12:30 pm **Short presentations**

- Patient-derived tumor organoids as new models to investigate metabolism-based personalized medicine in advanced cancers. *Cyril Corbet, UCLouvain/IREC (Belgium)*
- Formulation and characterization of hydrogel composed of LXA4 emulsion for dental pulp and periodontal regeneration. *Léna Guyon, Nantes Université, RMeS (France)*
- Encapsulation of human preantral follicles in PEGylated fibrin hydrogel with similar mechanical strength of reproductive-age ovarian tissue. *Arezo Dadashzadeh, UCLouvain/IREC (Belgium)*
- Polyphosphoesters : new opportunities as scaffolds for tissue engineering. *Raphaël Riva, University of Liege, CERM (Belgium)*

12:30 - 1:00 pm **Closing remarks+ Prizes**

Lunch Box

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