## PROGRAM



## DAY 1 - Wednesday 12 DECEMBER 2018

9 am - 12:30 pm	Networking session (ground floor, invited delegates only)
11:30 am-1:30 pm	Bioregate Forum Registration (3rd floor)
12:30 - 1:30 pm	One 2 One informal meeting for the networking morning participants (ground floor)
1:30 - 2:00 pm	Welcome speech by Organizers & Officials Organizers: Olivier Grasset or Olivier Laboux (University of Nantes), Pierre Weiss (Bioregate), Franck Zal (Atlanpole Biotherapies) Officials: Pays de la Loire Region and Nantes Metropole
2:00 - 4:00 pm	SESSION 1
	Cells as therapy and tools Chairmen: Ross Macdonald and Frank Yates
2:00 - 2:40 pm	Clinical Development of an iPSC-derived Therapeutic Product Ross Macdonald (Cynata Therapeutics, Australia)
2:40 - 3:00 pm	Human embryonic stem cells and regenerative medicine: the examples of the eye and the skin  Cécile Martinat (I-Stem, France)
3:00 - 3:20 pm	CAR-Tregs for clinical use Nadia Lounnas-Mourey (TxCell, a Sagamo company, Valbonne, France)
3:20 - 4:00 pm	Short presentations  - How could dental stem cells of the human papilla take up the challenge of spinal cord injury? Anne des Rieux (Louvain Drug Research Institute, Advanced Drug Delivery and Biomaterials, Université catholique de Louvain, Belgique)  - High Yield Production Of Liver Spheroids For Bio-Artificial Liver Devices. Noushin Dianat (Cyprio, Paris, France)  - Generation of nucleus pulposus progenitor cells from human induced pluripotent stem cells. Anne Camus (RMeS, Nantes, France)  - Development of in vitro assays to evaluate unwanted immunogenicity and other interactions between stem cells and the immune system. Severine Giltaire (Immunxperts, Belgium)
4:00 - 4:30 pm	Coffee break in Exhibition & Poster hall

4:30 - 6:30 pm	SESSION 2
	3D Bioprinting Chairmen: Kimberly Homan and Frank Halary
4:30 - 5:10 pm	<b>Bioprinting Vascularized Living Tissue</b> Kimberly Homan (Wyss Institute for Biologically Inspired Engineering, Harvard University, USA)
5:10 - 5:30 pm	Tissue Manufacturing by Bioprinting: Challenges and Opportunities Fabien Guillemot (Poietis, France)
5:30 - 5:50 pm	Engineering complex bioarchitectures to biomimic nature: A step closer to the development of artificial organs Marc Thurner (RegenHU, Switzerland)
5:50 - 6:30 pm	<ul> <li>Short presentations</li> <li>"Routine checking for cells viability in deposition 3D bioprinting", Chloé Devillard (3d.FAB platform, ICBMS, Claude Bernard University Lyon 1, France)</li> <li>In vivo evaluation of 3D printed BCP scaffolds for maxillofacial bone reconstruction in a critical-size bone defect model of rabbit. Dr Boris Feng Hildebrand (Université de Lille, France)</li> <li>3D bioprinting of cartilage and bone. Joris van Aken (I&amp;L Biosystem / Cellink, Sweden)</li> <li>Laser-assisted bioprinting: an advanced tool for cell model creation and for bone tissue repair. Hugo De Oliveira (University of Bordeaux, Tissue Bioengineering, U1026, ART BioPrint, Bordeaux, France)</li> </ul>

## DAY 2 - Thursday 13 DECEMBER 2018

9:00 - 11:00 am	SESSION 3
	Smart Biomaterials Chairmen: Estelle Collin & Catherine Le Visage
9:00 - 9:40 am	Redefining Identity of Disease, Tissues and Cells – a Biomaterials Paradigm Abhay Pandit (Curam, Ireland)
9:40 - 10:00 am	Chitosan-based nanofiber mats for tissue engineering Christine Jérôme (Ulg, Belgium)
10:00 - 10:20 am	<b>Gecko Biomedical: a versatile polymer platform for tissue engineering</b> Estelle Collin (Gecko Biomedical, France)
10:20 - 11:00 am	Short presentations  - The impact of polymeric microcarriers on the behavior of stem cells in tissue engineering. Rmaidi Assia (INSERM CRCINA U1232 Centre de Recherche en Cancérologie et Immunologie Nantes-Angers Equipe GLIAD, Université d'Angers, France)  - Designing a Bioadhesive Chitosan-Based Thermosensitive Hydrogel for Cell Therapy with Mussel-Inspired Catechol Grafting. Capucine Guyot (Ecole de Technologie Supérieure, Montréal, Québec, Canada)  - Self-setting and Injectable Hyaluronic Acid Hydrogel with Bioinspired Properties for Tissue Engineering. Killian Flegeau (INSERM UMRS 1229, Regenerative Medicine and Skeleton-RMe5, Team REGO5, Nantes, France)  - Nucleic acid based supramolecular systems as novel smart biomaterials. Philippe Barthélémy (University of Bordeaux, ARNA laboratory, France)
11:00 - 11:30 am	Coffee break in Exhibition & Poster hall
11:30 am - 12:20 pm	Hot topic Development of reporter systems to study DNA repair mechanisms and optimize genome editing approaches in vitro. Knut Stieger (Justus-Liebig-University Giessen, Germany)
12:20 - 12:30 pm	<b>Product compliance</b> Cell therapy and associated quality controls: Which tests should be performed? André Silvestro ( <i>Clean Cells, France</i> )
12:30 - 2:00 pm	Lunch in Exhibition & Poster hall
2:00 - 2:30 pm	Poster session

2:30 - 6:00 pm	PARALLEL SLOTS	
2:30 - 4:30 pm	SESSION 4	
2:30 - 3:00 pm	Young researchers pitch competition Building integrated human intestinal tissue from pluripotent stem cells Maxime Mahé (TENS, France),	2:00-6:00 pm OneToOne meeting (4th floor)
	9 mini talks by young researchers (10 min each) : 3:00 - 4:00 pm	
4:30 -5:00 pm	Organizers private meeting (poster and pitch awards attribution decision)	
3:00 - 4:00 pm		
5:00 -6:30 pm	Cocktail and Poster and pitc	h prizes award
7:00 -10:00 pm	Gala dinner at the Nantilus r	restaurant

## DAY 3 - Friday 14 DECEMBER 2018

8:45 - 10:45 am	SESSION 5
	<b>Gene Therapy and Nano medicine</b> Chairmen: Gloria Gonzalez Aseguinolaza and Frank Boury
8:45 - 9:25 am	Don't forget about the delivery system in regenerative medicines Kevin Shakesheff (University of Nottingham, UK)
9:25 - 9:45 am	Gene therapy for Oculopharyngeal muscular dystrophy Alberto Malerba (Royal Holloway, University of London, UK)
9:45 - 10:05 am	Therapeutic efficacy and safety of VTX-801, an optimized AAV vector for the treatment of Wilson's disease Gloria González Aseguinolaza (ViVet Therapeutics)
10:05 - 10:45 am	Short presentations  - Lipid nanoparticles for the sustained released of miRNA: new insight into intervertebral disc degenerative medicine. Brian Le Moal (INSERM, UMR 1229, RMeS, Regenerative Medicine and Skeleton, Université de Nantes, ONIRIS, Nantes, France & MINT, Université d'Angers, INSERM 1066, CNRS 6021, Angers, France)  - Demonstration of immunomodulatory properties for human MuStem cell population, a promising candidate for cell therapy of muscular dystrophies. Marine Charrier (PAnTher, INRA, École nationale vétérinaire, agro-alimentaire et de l'alimentation Nantes-Atlantique (Oniris), Université Bretagne Loire (UBL), Nantes, France)  - Generation of CD8+ and CD4+ regulatory T cells from human pluripotent stem cells. Léa Flippe (INSERM UMR1064, Center for Research in Transplantation and Immunology ITUN, Université de Nantes, Nantes, France)  - Gene therapy and tissue engineering: a strategy to treat recessive dystrophic epidermolysis bullosa or RDEB. Martin Barbier (Centre de Recherche en organogénèse expérimentale de l'Université Laval/LOEX, Québec, Canada)
10:45 -11:05 am	Coffee break in Exhibition & Poster hall

11:05 am - 1:05 pm	SESSION 6
	<b>Lessons from preclinical and clinical trials</b> Chairmen: Oumeya Adjali and Tuan N Guyen
11:05 - 11:45 am	The Era of Organoid Medicine from screen to therapeutics Takanori Takebe (Cincinnati Children's Hospital Medical Center, USA)
11:45 am-12:05 pm	<b>3D-Printed Patient Specific Implants and their Preclinical Evaluation</b> David Eglin (AO foundation, Davos, Switzerland)
12:05 - 12:25 pm	Clinical Production of an Autologous Ex vivo Gene Therapy Azadeh Golipour (Avrobio, USA)
12:25 - 1:05 pm	<ul> <li>Short presentations</li> <li>Therapeutic effect of mesenchymal stem cell-derived extracellular vesicles in rheumatic diseases. Marie Maumus (INSERM U1183, Montpellier, France &amp; Université Montpellier, France)</li> <li>Bioactivity of a Tissue-Engineered Product: Bridging the Gap Between Academic and Clinical Studies", Gaetan Thirion (Novadip Biosciences, Montsaint-Guibert, Belgium)</li> <li>Safety and clinical efficacy of a single intra-articular injection of allogeneic neonatal mesenchymal stem cells (MSC) for the treatment of osteoarthritis in dogs. Nathalie Saulnier (Vetbiobank, Marcy L'Etoile, France)</li> <li>ISOCell PRO workstation for cell therapy product and clinical applications. Severina Franco (Euroclone Spa, Pero (MI), Italy)</li> </ul>
1:05 - 1:30 pm	Conclusion remarks and Closing ceremony