

4th International conference on stem cells, development and Cancer

Lyon, France 16-17 May 2022

Bringing together world expert in the field of embryonic, adult and cancer stem cells to highlight novel approaches to address the important challenges associated with stem cell biology and therapeutics

Development and regulation of stem cell fate
Tumorigenesis and cancer progression
Epigenetics and gene regulatory networks
Bio-engineering
Environment of stem cells

Abstract deadline: 11 April 2022

Early bird rates deadline: 28 march 2022

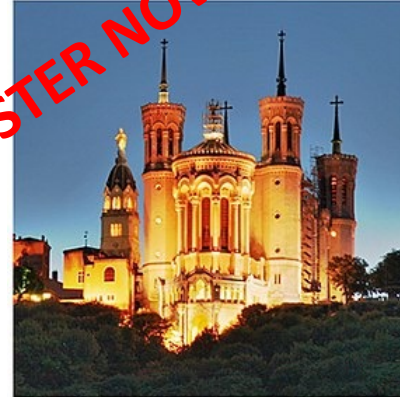
Selected Oral communications,

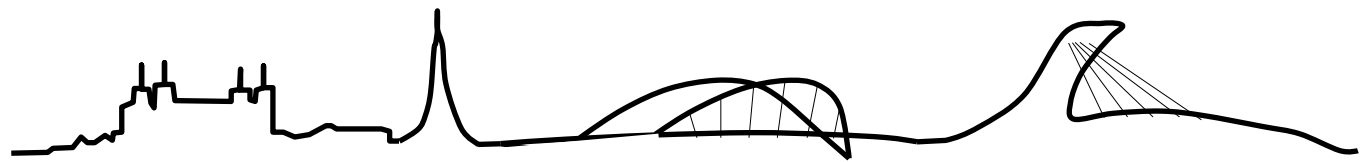
Poster sessions

Prizes ...

<https://stemcellmeeting.sciencesconf.org/>

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Lyon, France 16-17 May 2022, Amphi Merieux, ENS, Lyon

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Preliminary program

KEYNOTE LECTURE

Nada **Jabado** (Montréal, Canada) Deciphering Oncohistone Pathogenesis in Human Cancers

DEVELOPMENT AND REGULATION OF STEM CELL FATE

Cathrin **Briskin** (Lausanne, Switzerland) Endocrine control of the mammary stem cell
 Jérôme **Gros** (Paris, France) Mechanics of embryonic self-organization
 Jean-Claude **Labbé** (Montréal, Canada) In vivo regulation of *C. elegans* germline stem cell mitosis and self-renewal
 Estelle **Duprez** (Marseille, France) New insight into the heterogeneity of HSCs and their clonal evolution during aging

TUMORIGENESIS AND CANCER PROGRESSION

Allison **Bardin** (Paris, France) Drivers of Spontaneous Stem Cell Mutation
 Frédéric **Charron** (Montréal, Canada) Molecular mechanisms of brain tumor initiation and progression
 Rod **Bremmer** (Toronto, Canada) A Single Coactivator Simplifies Cancer to Binary Classes that Interchange to Evade Therapy

EPIGENETICS AND GENE REGULATORY NETWORKS

Eric **Röttinger** (Nice, France) Whole body regeneration requires a rewired embryonic gene regulatory network logic
 Julie **Lessard** (Montréal, Canada) Hematopoietic Lineage Determination by SWI/SNF Chromatin Remodeling Complexes
 Fabien **Le Grand** (Lyon, France) The H3K9 methyltransferase SETDB1 safeguards muscle stem cell identity

BIO-ENGINEERING

Christine **Mummery** (Leiden, The Netherlands) Cardiovascular disease modelling using human pluripotent stem cells in organs-on-chip
 Erika **Cosset** (Lyon, France) Modeling patient-derived glioblastoma with brain organoids and engineered neural tissue
 Catherine **Picart** (Grenoble, France) BioactiveCoatings: a new way to study cell signaling and differentiation

ENVIRONMENT OF STEM CELLS

Valérie **Wallace** (Toronto, Canada) Cytoplasmic material exchange between sensory neurons in vivo
 Cristina **Lo Celso** (London, UK) Healthy and malignant haematopoiesis: dynamic cells in an evolving environment
 Nicolas **Dumont** (Montreal, Canada) Targeting muscle stem cells with bioactive lipids to enhance myogenesis in Duchenne Muscular Dystrophy