

Thursday 5 April

08h30: Registration

09h00: Welcome address: S. PATEL

A- HYPOXIA and METABOLISM

Chairpersons: WG. KAELIN / B. GARDIE

9h05-9h45 WG. KAELIN (Howard Hughes Med Institute, Brigham and Women's Hospital, Harvard Med School, Boston, USA).

Oxoglutarate-dependent Dioxygenases: New Targets for the Treatment of Cancer, Ischemia, and Anemia.

9h45-10h05 N. MAZURE (CNRS-UMR 6543, University Nice Sophia-Antipolis, France).

Survival in hypoxic microenvironment.

10h05-10h25 C. PEYSSONNAUX (INSERM U1016, Institute Cochin, France).

Role of HIF-2 in iron metabolism.

10h25-10h45 C. SCHOFIELD (Dept of Chemistry, Oxford Centre for Integrative Systems Biology, Chem Res Lab, Univ Oxford, UK).

Role of Post-Translational Hydroxylation in the Hypoxic Response.

10h45 - 11h00: Coffee Break

B- STEM CELLS and DIFFERENTIATION

Chairpersons: E. SCHIPANI / J. GUICHEUX

11h00-11h40 E. SCHIPANI (Division of Endocrinology, Indiana University School of Medicine, Indianapolis, USA).

HIF signaling pathway in development and differentiation.

11h40-12h00 F. MAZURIER (INSERM U853, University Bordeaux, France).

Hypoxia-inducible factors in human hematopoietic cells: long-term reconstitution ability and erythropoietic differentiation.

12h00-12h20 M. BERNAUDIN (CERVOxy, UMR6232 CI-NAPS, University Caen Basse-Normandie, Caen, France).

Hypoxia, cell differentiation and cell protection: focus on a brain plasticity and tumoral context.

12h20 - 14h00: Lunch

C- IMMUNOLOGY and CANCER

Chairpersons: F. PAN / L. OLIVER

14h00-14h40 F. PAN (Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University School of Medicine, Maryland).

Role of Hypoxia-inducible Factor 1 in Regulating the Balance between Treg and Th17 Differentiation.

14h40-15h00 V. POTIRON (CRCNA, INSERM UMR U892, University Nantes, France).

Role of hypoxia in prostate cancer response to radiation therapy.

15h00-15h20 C. KIEDA (Centre de Biophysique Moléculaire, CNRS UPR, Orléans, France).

Hypoxia compensation strategies for new therapies.

15h20-15h40 N. BOUVIER (INSERM U775, University Paris Descartes, Paris, France).

Hypoxic stress in the transplanted kidney: consequences on tissue remodeling and immune regulation.

15h40 - 1600: Coffee Break

D- REGENERATIVE MEDICINE

Chairpersons: N. FORSYTH / S. CONCHON

16h00-16h30 N. FORSYTH (Guy Hilton Research Centre, Keele University, Stoke-On-Trent, UK).

Mesenchymal Stem Cells - degrees of control.

16h30-16h50 C. MERCERON (INSERM U791, LIOAD, University Nantes, France).

Hypoxia and stem cells for biomaterial-assisted regenerative medicine of articular cartilage.

16h50-17h10 H. PETITE (B2OA UMR CNRS 7052, University Paris Diderot, France).

To die or not to die: the respective role of hypoxia and glucose as determinants of the survival of hMSCs upon implantation.

17h30: Closing Remarks: C PECQUEUR

WORKSHOP

Present at the workshop will be a **hypoxia workstation** (Ruskinn):

➤ Continuous closed cell culture environment eliminates stress caused by variations in oxygen, pH, temperature & humidity.

➤ 5 Anoxia and 8 Hypoxia Workstation Models to suit your workload.

➤ NEW for Stem Cell research - SCI-tive All Inclusive Workstation includes hepa-filtration and cell imaging.

www.ruskinn.com/prod_scitive.php

As well as the **Seahorse** an instrument that measures Extracellular Flux Analyzer, or could also be considered as a respirometer. Participants will have the opportunity to handle the equipment.

ORGANISATION and REGISTRATION

This meeting is supported by the COST action TD0901 "HypoxiaNet", working group "Technology".

Scientific committee:

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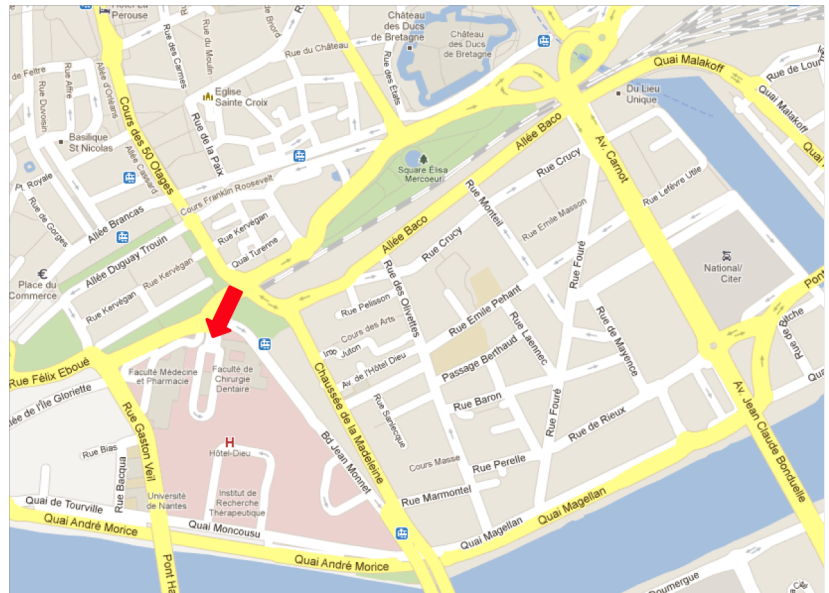
Sophie CONCHON (INSERM U643) Sophie.Conchon@univ-nantes.fr

Registration is free but required due to limited space:

<http://www.nanteshypoxia2012.websself.net>

ADDRESS

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