



DHU2020 Autumn school

18th and 19th, October 2018

Salons d'Affaires
CCI Nantes St-Nazaire
16 Quai Ernest Renaud,
Nantes, France



Informations - Registration: www.dhu2020.org



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**New approaches in
precision medicine:
state of the art and practice**

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CCI Nantes St-Nazaire
16 Quai Ernest Renaud,
Nantes, France



Steering committee:

Julien Barc, Bertrand Cariou, Karine Cavaillès,
Malvyne Derkinderen, Alban Gaignard, Jean-Baptiste Gourraud,
Cédric Le May, Matthieu Pichelin, Karim Si-Tayeb

DHU 2020 Autumn school Programme

Thursday 18th, October

- 8:45 Welcome Coffee and registration**
- 9:15 Welcome** B. Cariou - DHU 2020, l'institut du thorax, CHU de Nantes, France
- 9:30 Scientific challenges and ethical issues of the genomic revolution**
T. Frebourg - CHU de Rouen, Inserm U1245, IRIB, Rouen
- Session 1 - Individual based disease modeling**
- 10:00 Induced Pluripotent Stem Cells in the Future of Gastroenterology/Hepatology**
S. Duncan - Medical University of South Carolina, USA
- 10:30** M. Roudaut - Selected Oral Communication #18
- 10:45 Coffee break**
- 11:15** M. Klein - Selected Oral Communication #12
- 11:30 Establishment of human intestinal organoids from patients-derived cells**
M. Mahé - Inserm 1235, TENS, Nantes, France
- 12:00 Electrocardiogram of the future ? : 3D mapping of the heart's electrical activity**
J. Duchateau, IHU Lyric, CHU de Bordeaux, Bordeaux, France
- 12:30 Lunch**
- 14:00 Workshop Methodological approaches session 1 - Theoretical session**



WS 01	WS 02	WS 03
Systems Biology :general concepts and applications D. Eveillard, LS2N, Université de Nantes, France	Acquisition of NMR metabolomics data P. Giraudeau - CEISAM Université de Nantes, France	Gene expression profiling (3' seq RNA profiling/ RNAseq) : general concepts and applications A. Bihouée - S. Bonnaud Plateforme GENOBIRD, Nantes, France

Session 2 - Innovative tools in precision medicine

- 15:00 Innovative imaging and endoscopic tools to characterize digestive pathologies**
E. Coron, CHU de Nantes, France
- 15:30 Coffee break**
- 16:00 Advanced Multimodality Imaging Programme and Translational Research in Chronic Cardiovascular Diseases**
R. Capoulade, l'institut du thorax, Nantes, France
- 16:30** A. Reignier - Selected Oral Communication #17
- 16:45** M-C Fournier - Selected Oral Communication #6
- 17:00 Theranostics in oncologic Nuclear Medicine**
C. Bailly, Service de médecine nucléaire, CHU de Nantes, France
- 17:30 Poster Session - Cocktail**
- 20:00 Gala Dinner**

Friday 19th, October

- Session 3 - Organs cross-talk - Data cross-talk**
- 9:00 Gut-brain axis in Parkinson's disease**
P. Derkinderen, Service de Neurologie, CHU de Nantes, France
- 9:30** J. Marchix - Selected Oral Communication #14
- 9:45** D. Garçon - Selected Oral Communication #7
- 10:00 Network analyses for identifying new targets in metabolic diseases**
A. Mardinoglu, Royal Institute of Technology, Stockholm, Sweden
- 10:30 Awards and questionnaire delivery**
- 10:45 Coffee break**
- 11:15 Workshop Methodological approaches session 2 - Practical session (with participants' laptops)**

WS 01	WS 02	WS 03
Network analysis to bridge genomic and metabolic knowledge D. Eveillard, LS2N S. Chaffron, LS2N, LINA Université de Nantes, France	Processing and analysis of metabolomics data E. Thévenot, CEA, LIST, MetaboHUB, Gif-sur-Yvette France	Training in gene expression profiling data-analysis A. Bihouée - E. Charpentier - S. Dumont Plateforme GENOBIRD, Nantes, France

- 12:45 Closing conference**
Nutrition strategies to maintain optimal health
F. Hoevenaars, Organisation for Applied Scientific Research, The Netherlands
- 13:15 End of meeting / Lunch**

