



DHU2020 Autumn school

17th and 18th, October 2019

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



Informations - Registration: www.dhu2020.org



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**e-nnovative technologies in
precision medicine**

Generating and analyzing data from
single cell to 7 billion humans

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16 Quai Ernest Renaud,
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Steering committee:

Julien Barc, Bertrand Cariou, Karine Cavaillès,
Malvyne Derkinderen, Cédric Le May, Solena Le Scouarnec
Matthieu Pichelin, Anne-Clémence Vion

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Pre-programme

Thursday 17th, October

- 8:45 Welcome Coffee and registration**
- 9:15 Welcome B. Cariou - DHU 2020, l'institut du thorax, CHU de Nantes, France**
- 9:30 How Biomimicry can help human health and brings therapeutic innovations**
Dr F. Zal - Hemarina SA, Morlaix, France
- Session 1 - From cells to organs**
- 10:00 Investigating cell fate programming and reprogramming through epigenome editing**
Dr J. Jullien - Gurdon Institute, Cambridge, UK
- 10:30 Selected Oral Communication #1**
- 10:45 Coffee break**
- 11:15 Selected Oral Communication #2**
- 11:30 Methods and technologies for preclinical photoacoustic reporter gene imaging**
Prof J. Laufer - Institut für Physik, Martin-Luther-Universität Halle-Wittenberg, Germany
- 12:00 Virtual liver biopsy with quantitative ultrasound and MR imaging in non-alcoholic fatty liver disease**
Prof. B. Van Beers - UMR 1149 Inserm, Paris, France
- 12:30 Lunch**
- 13:30 Poster session**
- 15:00 Workshop session 1 - Theoretical session**



WS 01	WS 02	WS 03
Entrepreneurship <i>B. Barteau, BPI France J-B. Avrillier, Université de Nantes</i>	Biomedical data warehouse at CHU de Nantes : new challenges, governance, access with the data clinic <i>Prof. P-A Gourraud, CHU de Nantes, Université de Nantes, Inserm UMR 1064 Dr S. Sacher Huvelin CHU de Nantes, France</i>	Transcriptomic in single cell – promise and pitfalls <i>Plateforme GENOBIRD, Nantes, France</i>

- 16:00 Emergence of biomedical data warehouses as a new source of data for research**
Prof. M. Cuggia - CHU de Rennes, France
- 16:30 Coffee break**
- Session 2 - Engineering to reconstitute and replace the organs**
- 17:00 Automated insulin delivery for the treatment of type 1 diabetes**
Prof. P-Y. Benhamou - CHU Grenoble Alpes, Université Grenoble Alpes, France
- 17:30 Selected Oral Communication #3**
- 17:45 Selected Oral Communication #4**
- 18:00 Liver on chip and 3D models**
Dr C. Legallais - Université de Technologie de Compiègne, UMR CNRS 7338, France
- 20:00 Gala Dinner**

Friday 18th, October

- Session 3 - e Health , robotics and new technologies**
- 9:00 eCardiology: the right connected device for the right disease**
Prof. J-S Hulot - Cardiovascular research center at HEGP, Inserm U970, France
- 9:30 Selected Oral Communication #5**
- 9:45 Selected Oral Communication #6**
- 10:00 Contribution and development of robotics in surgery**
Speaker to be confirmed
- 10:30 Awards and questionnaire delivery**
- 10:45 Coffee break**
- 11:15 Workshop session 2 - Practical session (with participants' laptops)**

WS 01	WS 02	WS 03
Entrepreneurship <i>Dr K. Si-Tayeb, l'institut du thorax, CHU de Nantes V. Gourlaouen, Université de Nantes</i>	Biomedical data warehouse at CHU de Nantes : new challenges, governance, access with the data clinic <i>Dr M. Wargny, Prof S. Hadjadj, CHU de Nantes</i>	Transcriptomic in single cell – promise and pitfalls <i>Dr B. Coxam Max Delbrück Center, Berlin</i>

- 12:45 Closing conference**
- Health data economics: The Good, the Bad and the Ugly**
C. Foucault - Empowerment Foundation, Suisse
- 13:15 End of meeting / Lunch**

