



## 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](http://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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**Steering committee:**

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



# DHU 2020 Autumn school 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
<b>Entrepreneurship</b>  <i>B. Barteau, BPI France</i> <i>L-A. Vialle, I-SITE NEXT</i>	<b>Biomedical data warehouse at CHU de Nantes : new challenges, governance, access with the data clinic</b>  <i>Prof. P-A Gourraud, CHU de Nantes, Université de Nantes, Inserm UMR 1064</i> <i>Dr S. Sacher Huvelin, CHU de Nantes, France</i>	<b>Transcriptomic in single cell – promise and pitfalls</b>  Plateforme GENOBIRD, Nantes, France

- 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**  
*Prof. G. Meurette - IMAD, CHU de Nantes, France*
- 10:30 Awards and questionnaire delivery**
- 10:45 Coffee break**
- 11:15 Workshop session 2 - Practical session**

WS 01	WS 02	WS 03
<b>Entrepreneurship</b>  <i>Dr K. Si-Tayeb, l'institut du thorax, CHU de Nantes</i> <i>V. Gourlaouen, Université de Nantes</i>	<b>Biomedical data warehouse at CHU de Nantes : new challenges, governance, access with the data clinic</b>  <i>Dr M. Wargny, Prof S. Hadjadj, CHU de Nantes</i>	<b>Transcriptomic in single cell – promise and pitfalls</b>  <i>Dr B. Coxam, Max Delbrück Center, Berlin</i>  <i>Dr L. David, SFR Santé François Bonamy, Inserm UMR 1064</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**

