

Antonietta MESSINA

Postdoc researcher / ER 3

Microencapsulation and differentiation of iPS for extracorporeal liver supply

Aim & Things done February 2016

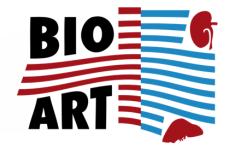
Postdoc start date: December 2015

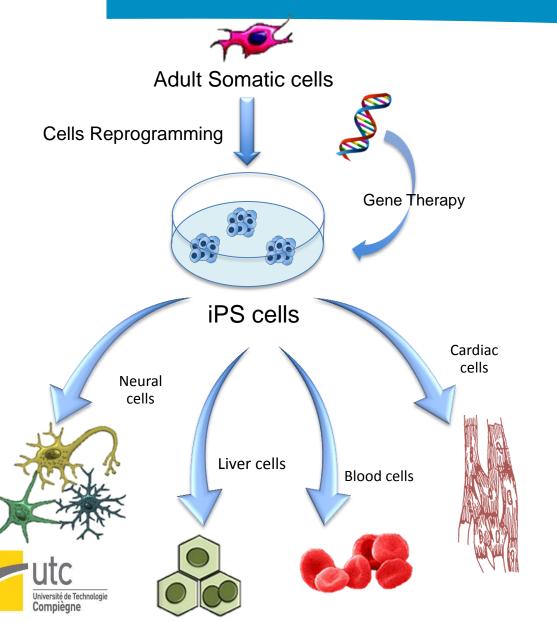
Laboratory of Biomechanics and Bioengineering University of Technology of Compiègne, France Senior Researcher: **Dr. Cécile Legallais**





iPS cells





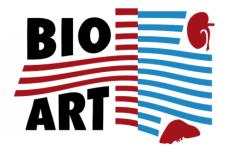
Disease Modeling
Drug Screening
Transplantation Studies

Autologus / Allogenic Cell Therapy





Cell Encapsulation



Hydrogel main properties

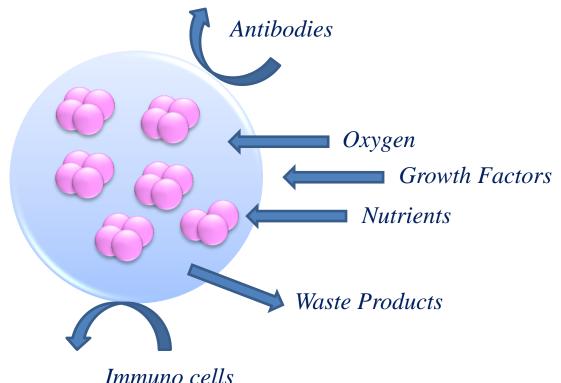
- i. Excellent biocompatibility
- ii. Controlled biodegradability
- iii. Easy to be processed



Mechanical strength

Semipermeability

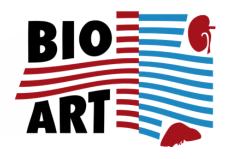
Swelling control

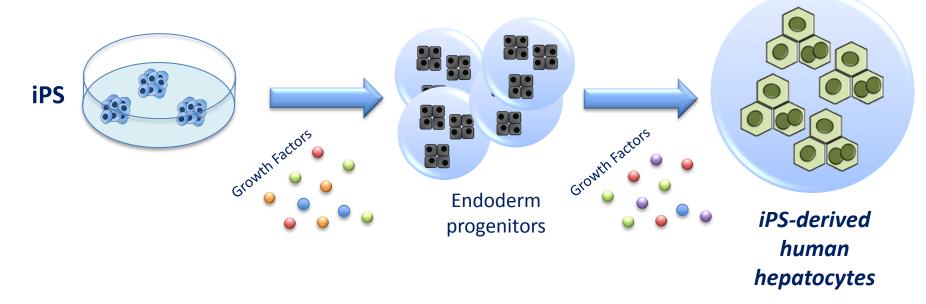






From iPS cells to hepatocytes iPS Encapsulation





Research Program carried out at the Laboratory of Biomechanics and Bioengineering - University of Technology of Compiègne, France - Senior Researcher: Dr. Cécile Legallais

In close collaboration with Dr. A. Dubart-Kupperschmitt, INSERM U 1193, Villejuif, FR.



