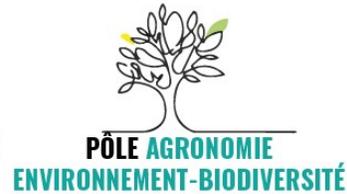
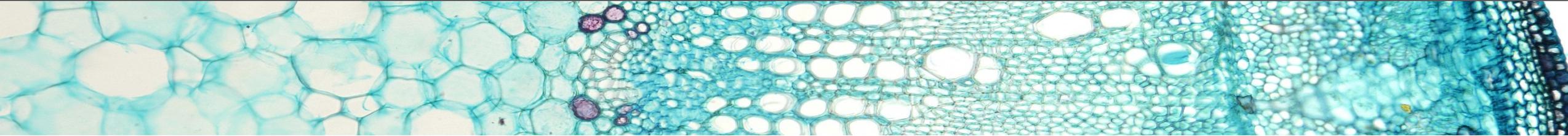




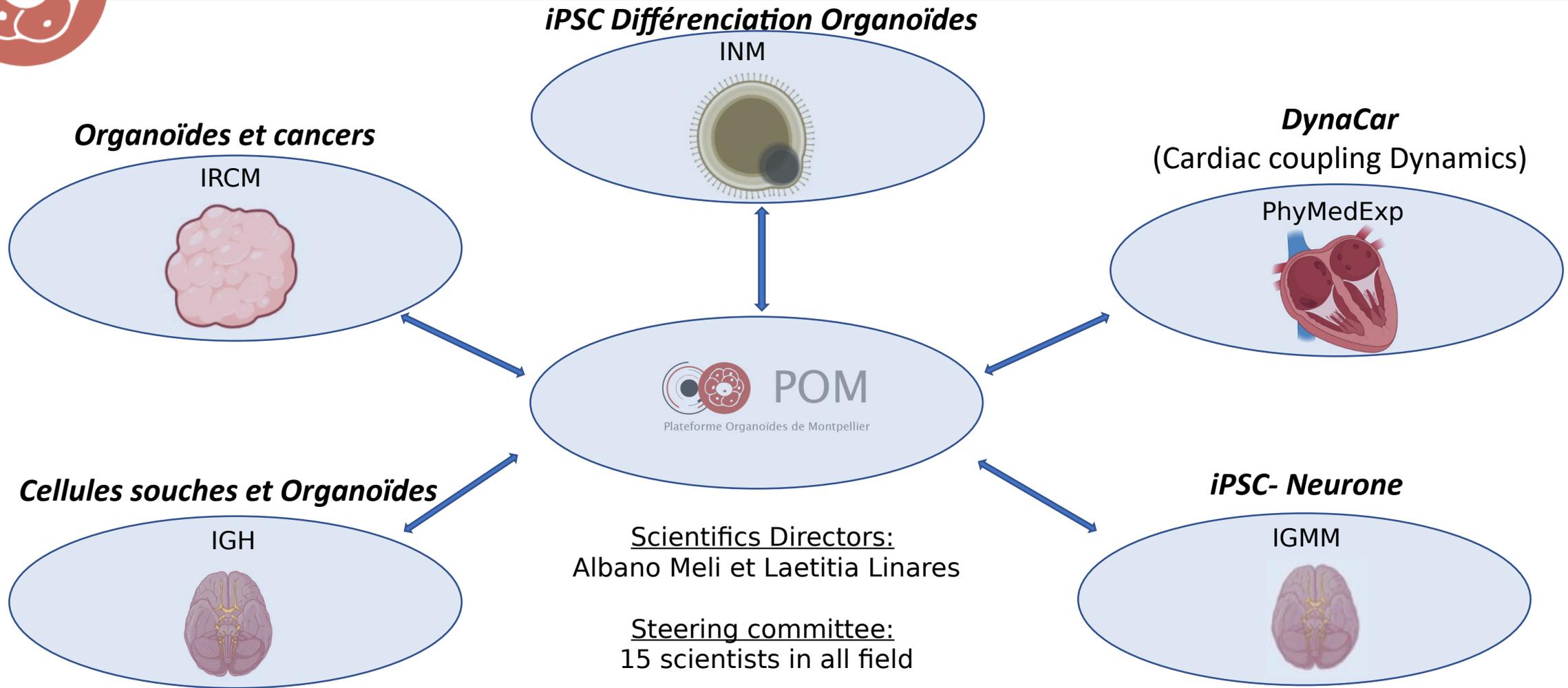
# Plateforme Organoïdes de Montpellier (POM)

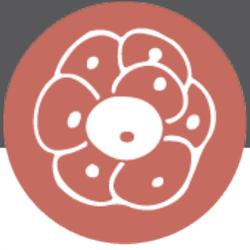




# Plusieurs instituts pour plusieurs spécialités

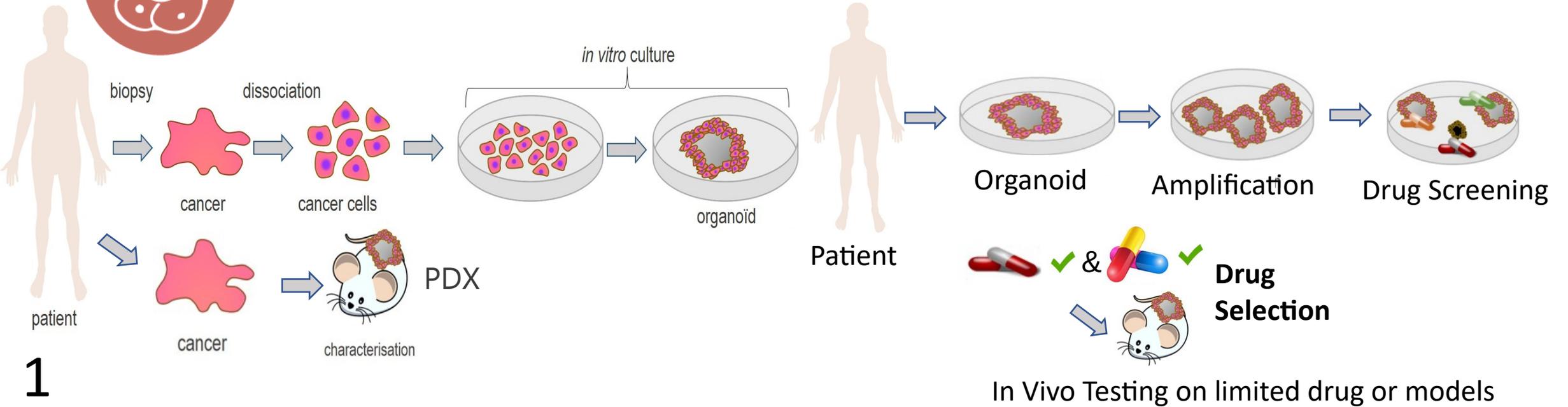
POM





# Organoïdes et Cancers (IRCM)

POM



1

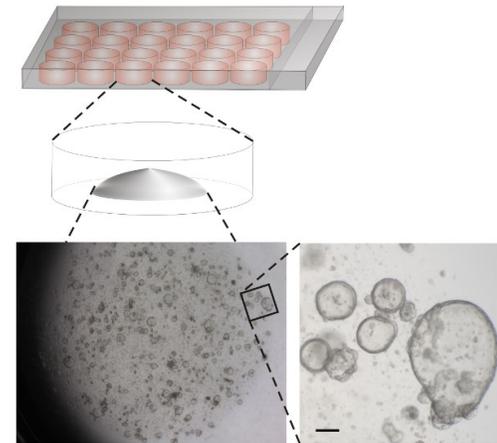
Biobank de modèles rare



2

Aide/Apprentissage aux équipes d'intérêts

3





# « PhyMedExp » Organe sur puce neurocardiaque dérivé du patient

Patient atteint d'une maladie cardiaque héréditaire associée à un trouble neurologique



Sang

Reprogrammation des hiPSC

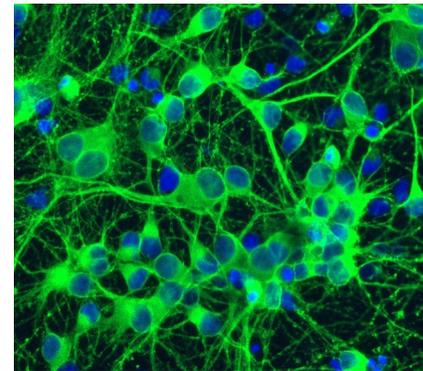
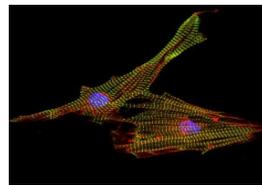
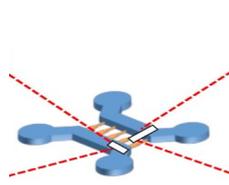
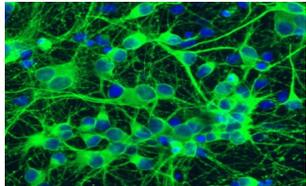
(CRISPR/Cas 9)

Cellules isogéniques de contrôle hiPSC corrigées

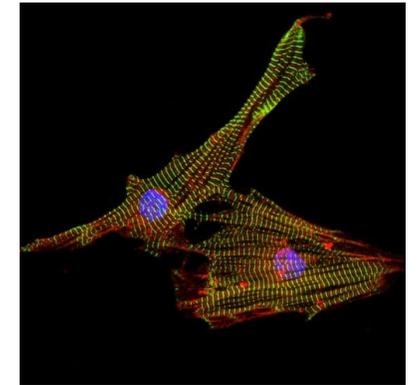
Neurones dérivés de hiPSC

Cardiomyocytes dérivés de hiPSC

Puce microfluidiques



+



Neurocardiaque organ-on-chip



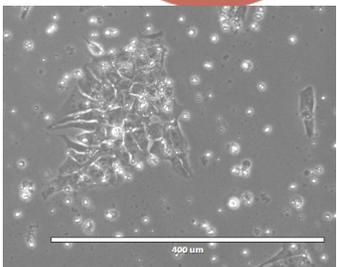
Bernardin *et al.*, 2022

Modélisation de la maladie  
Médecine personnalisée  
Pharmacotoxicité

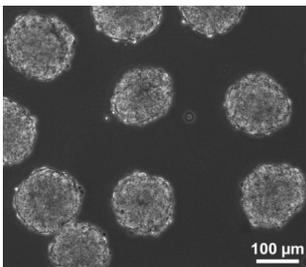


# Création de jonction Neuromusculaire humaine (IGMM) POM

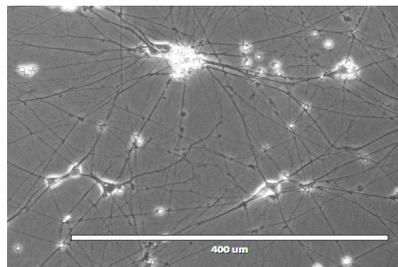
MNs from iPSC



IPS cells



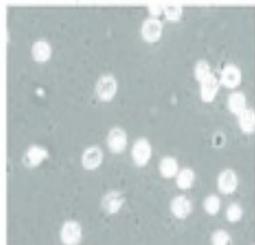
Embryoid Bodies



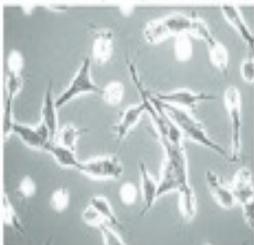
Motor Neurons

Muscles from biopsies or from progenitors derived from iPSC

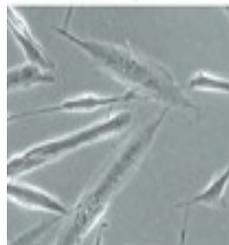
Myoblasts



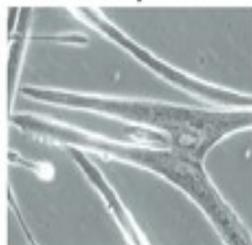
Myocytes



Nascent myotubes



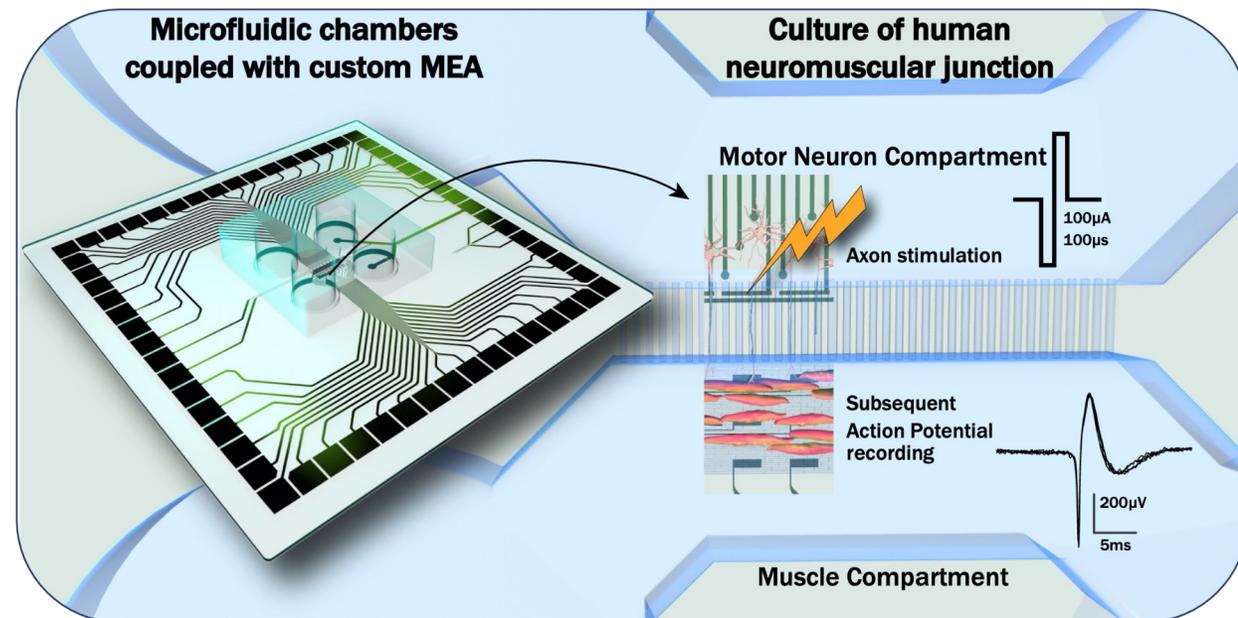
Mature myotubes



Motoneurones

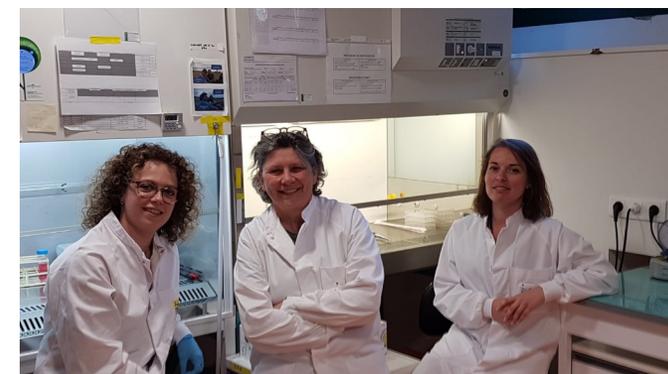


Co-culture in microfluidic devices.



Duc. Et al., Lab on Chip 2021

Pauline Duc  
Audrey Moisan  
Florence Rage



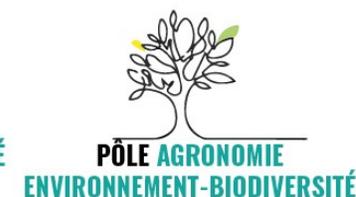


# Plateforme Organoïde de Montpellier

POM

<https://www.biocampus.cnrs.fr/>

Accueil > Plateformes > POM



## COMITÉ DE DIRECTION

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- Vasiliki KALATZIS
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- Albano MELI
- Julie PANNEQUIN
- Isabelle PEIFFER
- Florence RAGE

## DIRECTION DE LA PLATEFORME POM

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