



## **Institut de Recherche en Thérapie Cellulaire**

Dr Nico FORRAZ

Pr Colin McGUCKIN

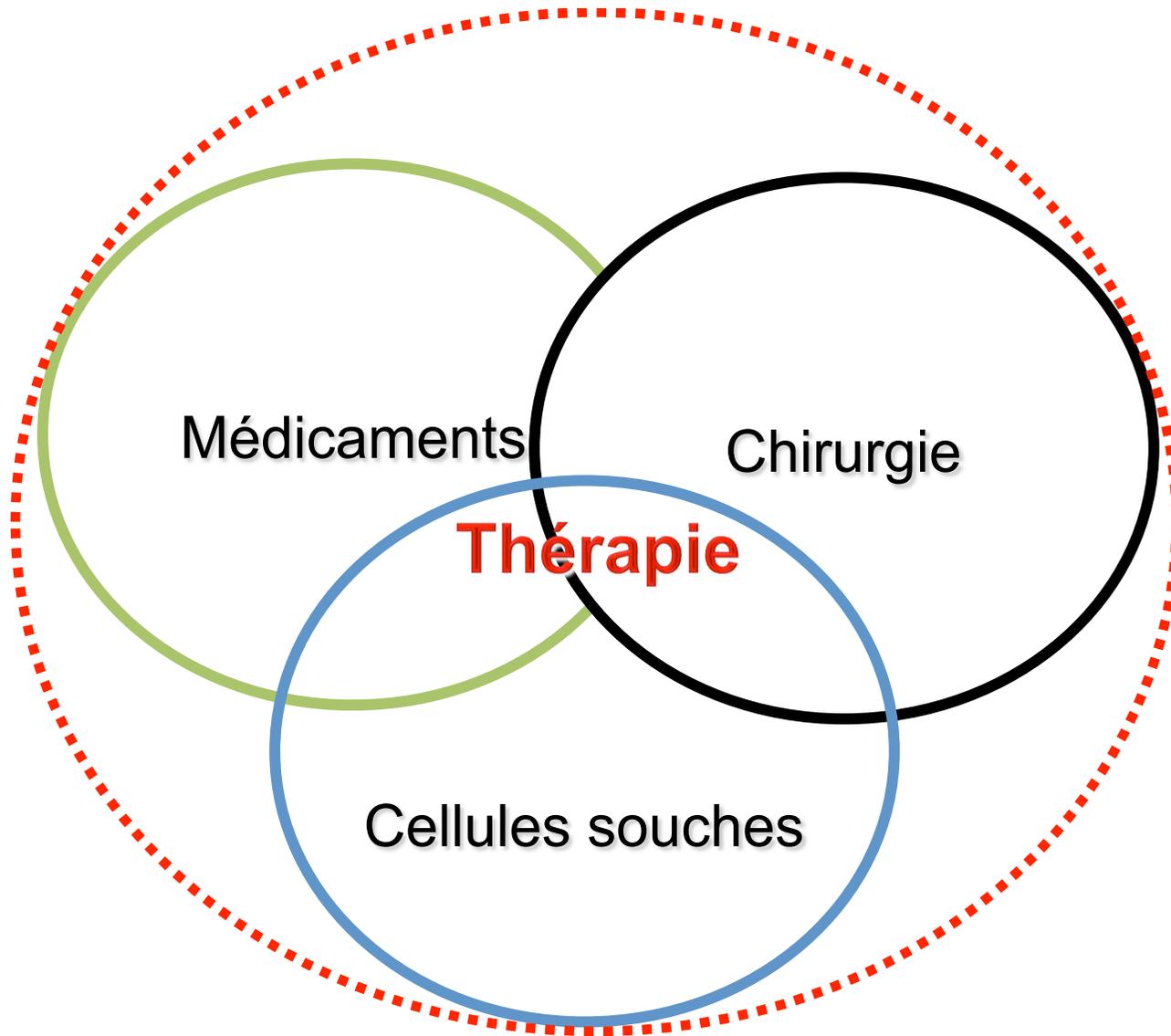
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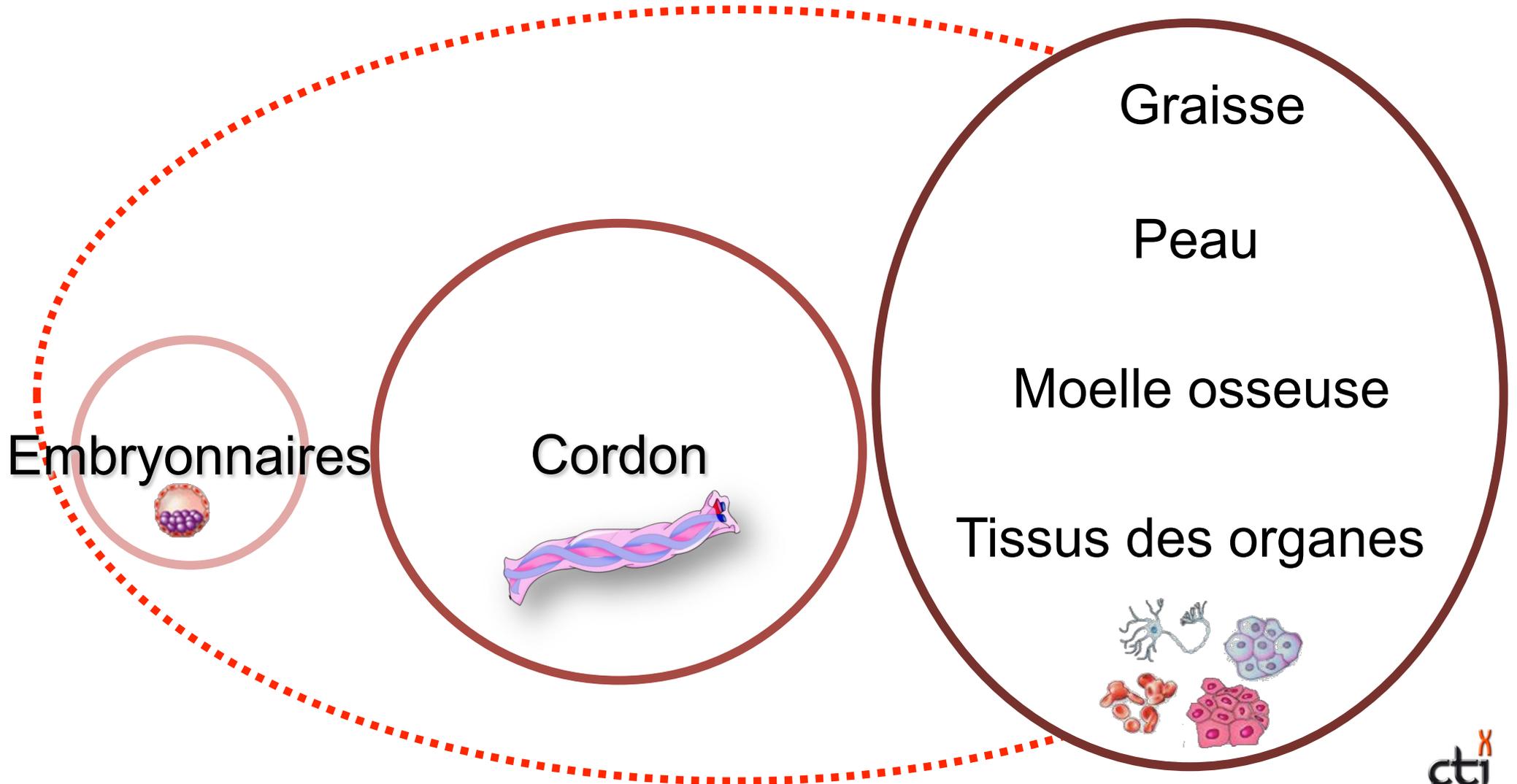


Parc Technologique de Saint Priest

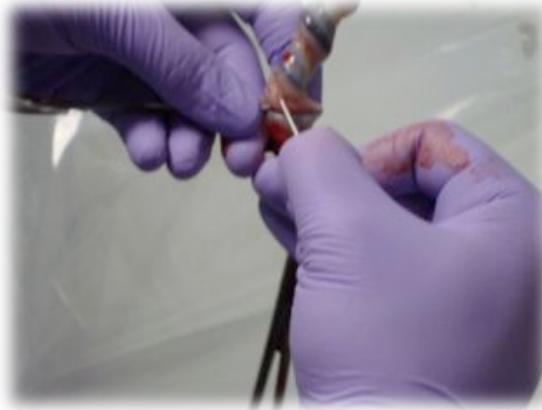
- *Association loi 1901 à but non lucratif reconnue d'intérêt général*
- *Ecole Doctorale BMIC, Université Lyon I*
- *Accréditation MESR: CIR prestations R&D*
- *Accréditation MESR: Banque de Tissus et Cellules à usage scientifique*



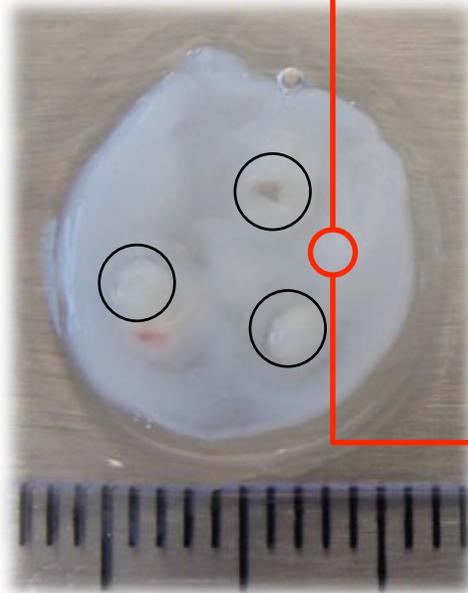
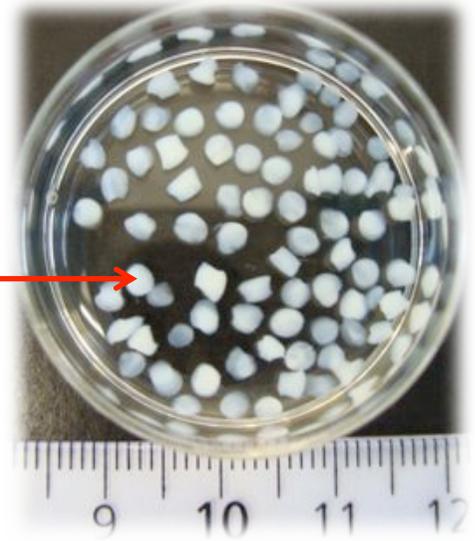
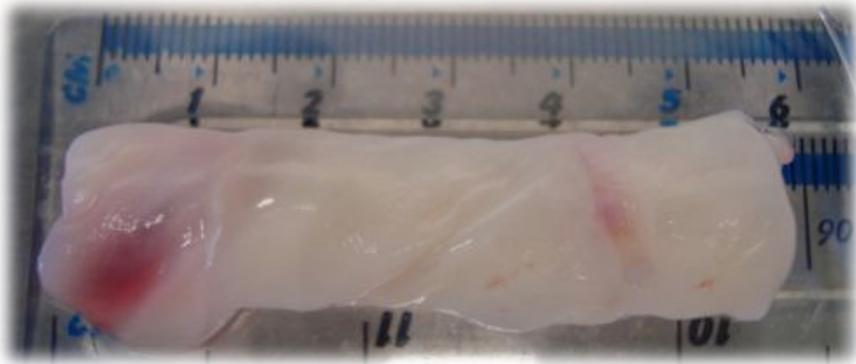
# LES CELLULES SOUCHES



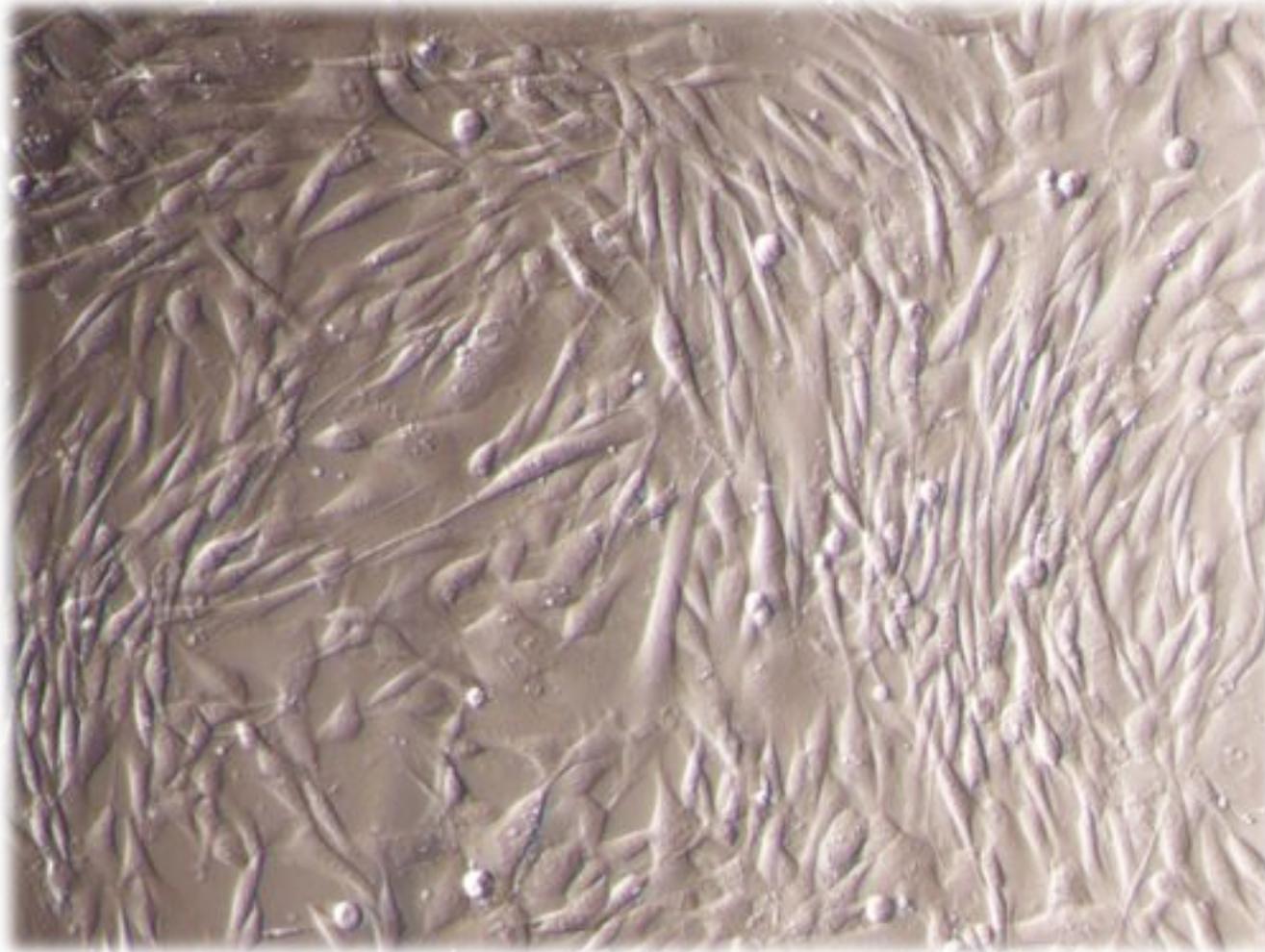
# LE SANG DE CORDON OMBILICAL



# LE CORDON OMBILICAL

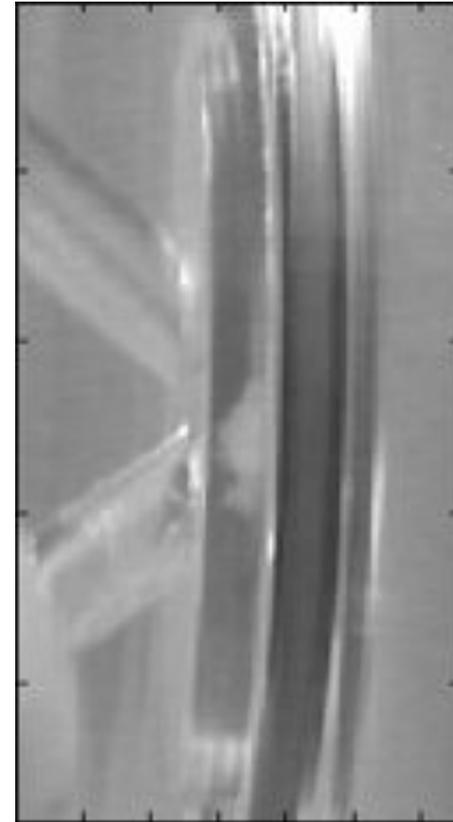


# EXTRACTION ET EXPANSION DES CELLULES SOUCHES

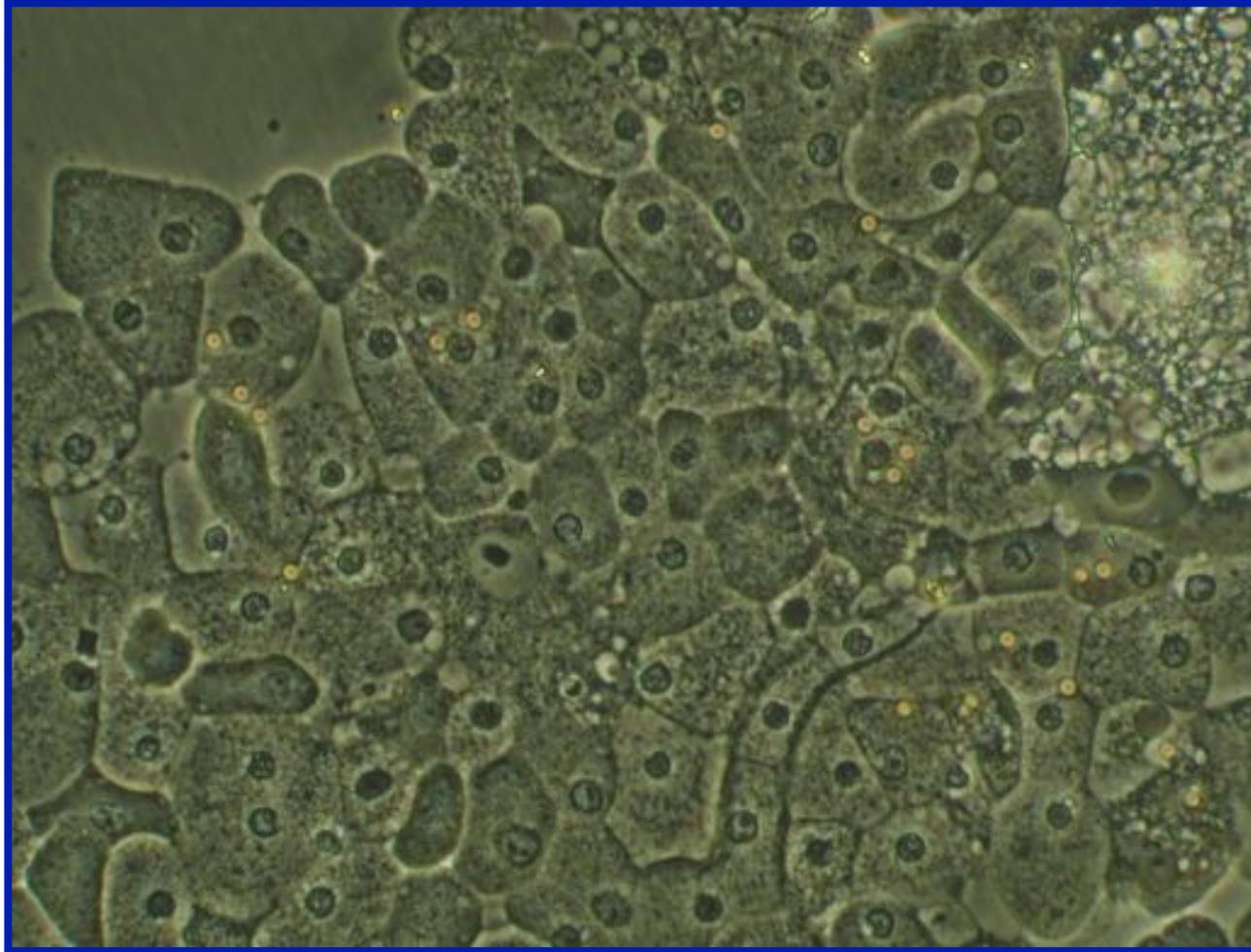


# LA CULTURE 3D

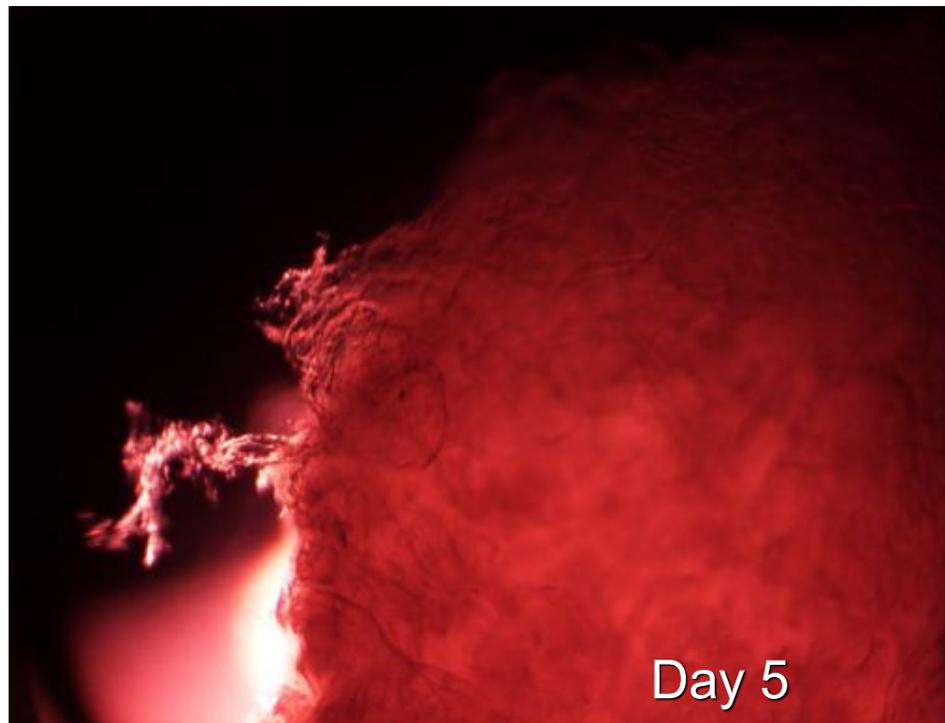
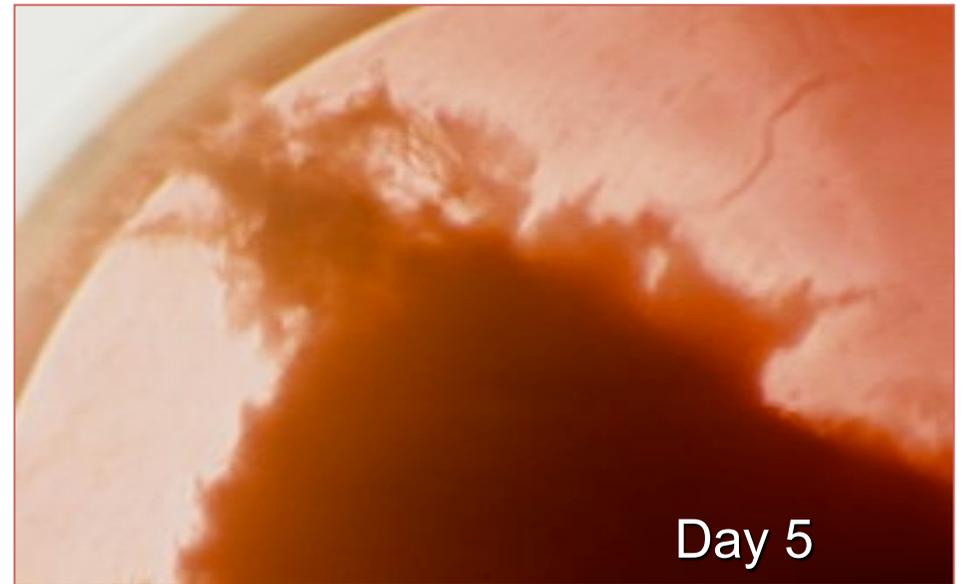
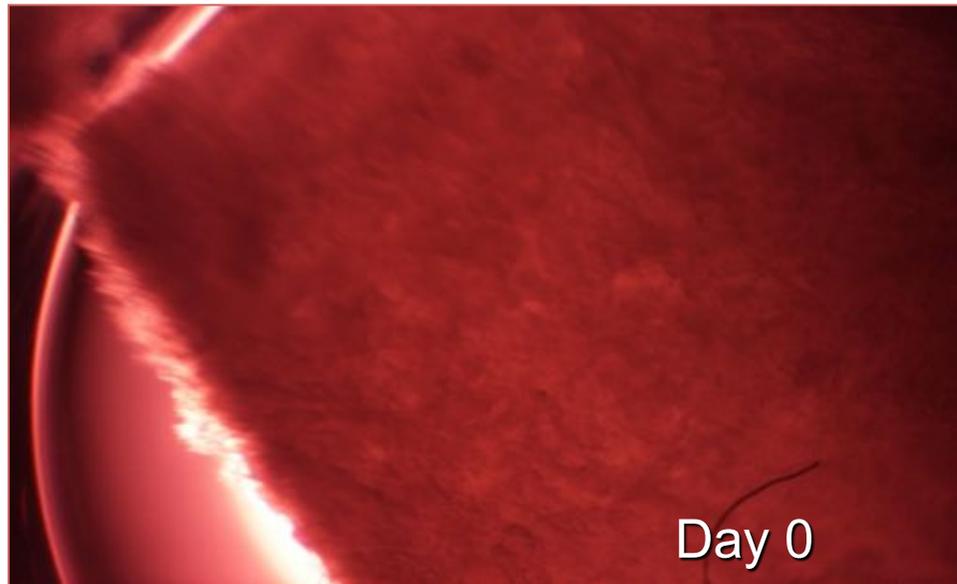
## Expansion et différenciation des cellules souches



## R&D: TISSUS HEPATO-BILIAIRES



Positives pour marqueurs hépatiques

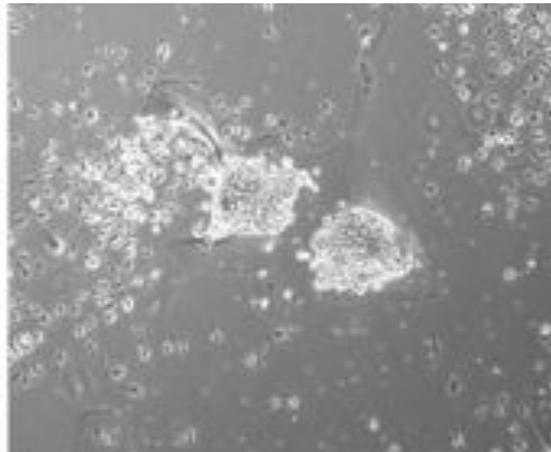


# R&D: TISSUS PANCREATIQUES

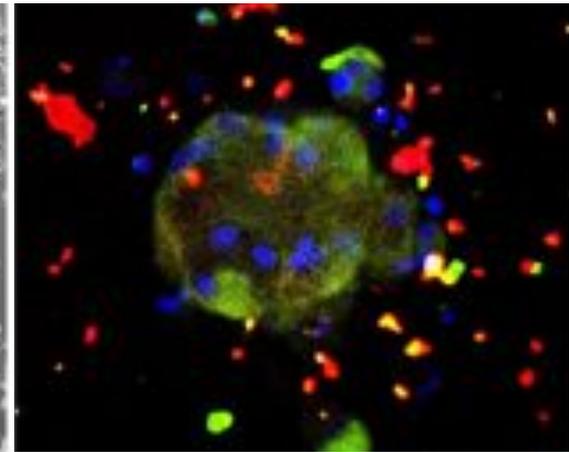
Validation protocole pour essais cliniques du diabète de type 1



Cellules souches

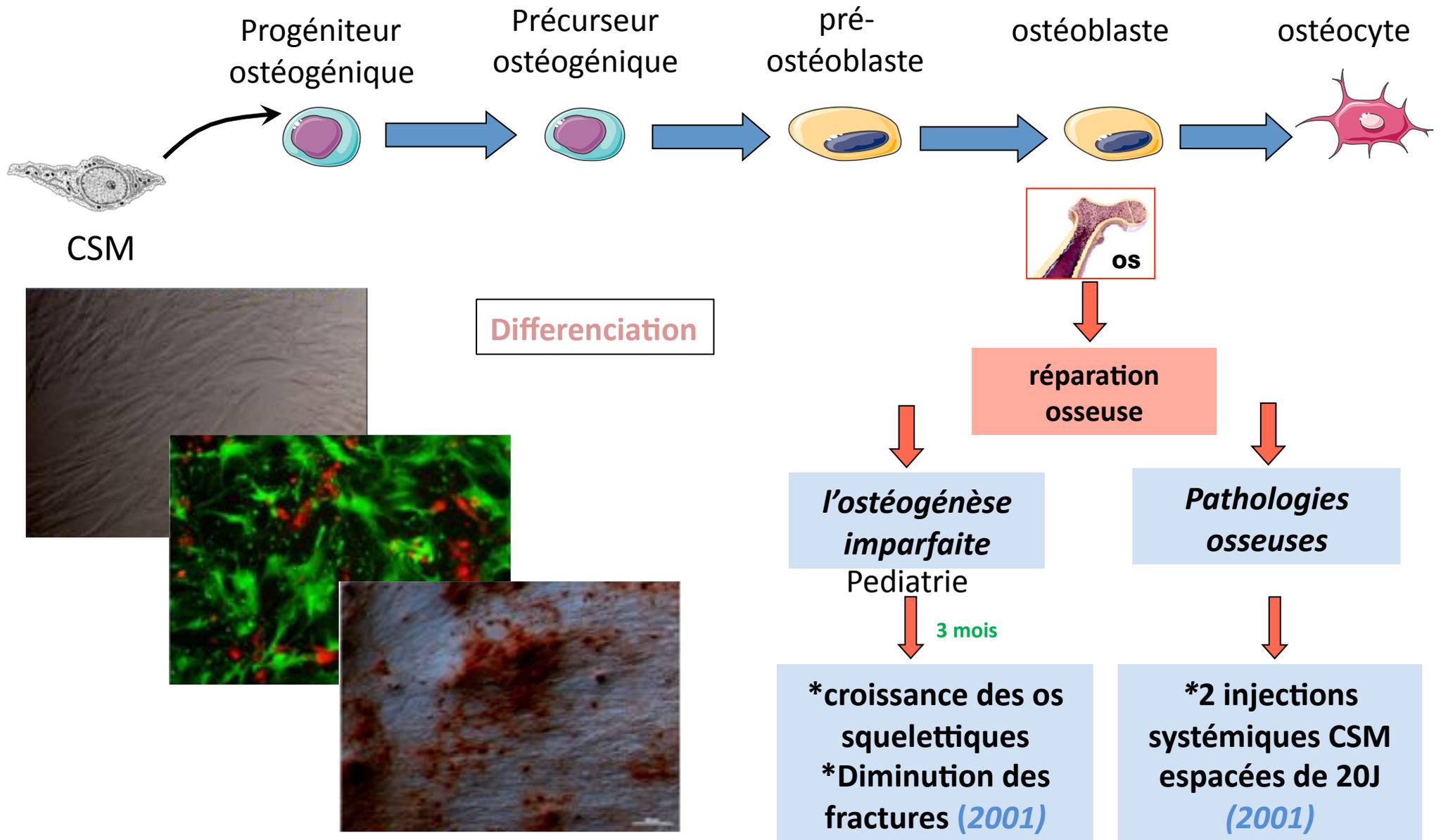


Formation en îlots

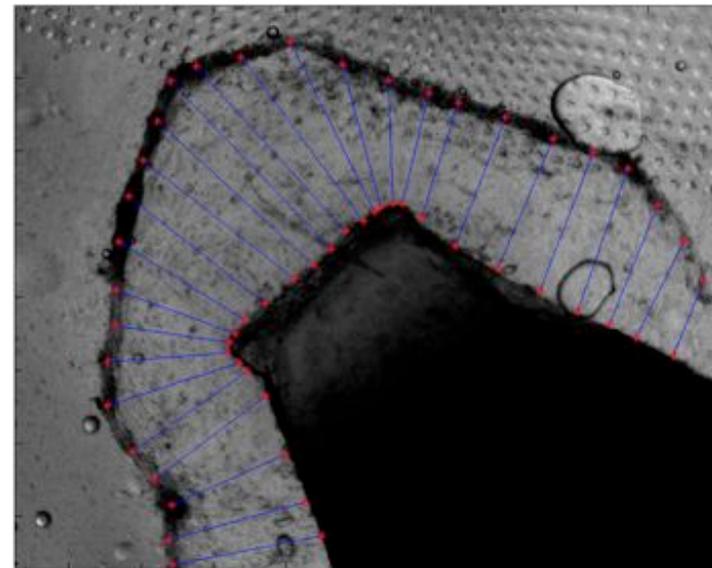
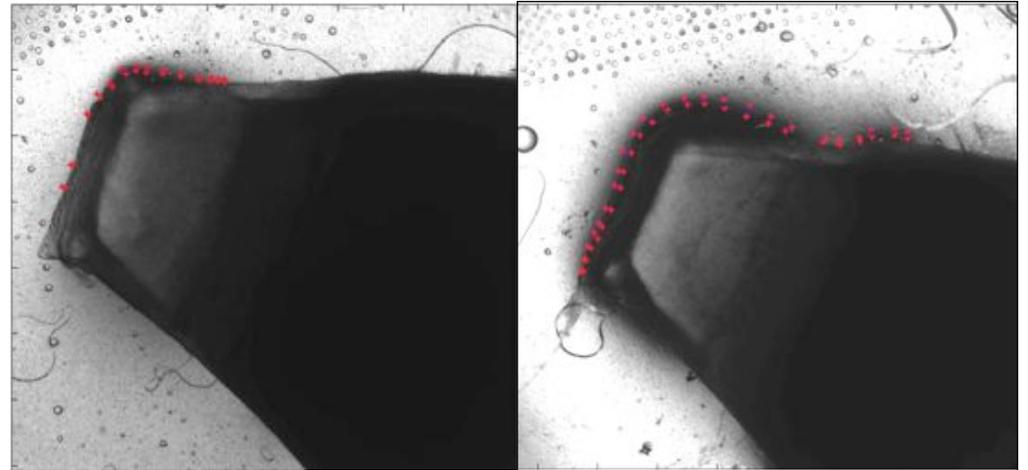
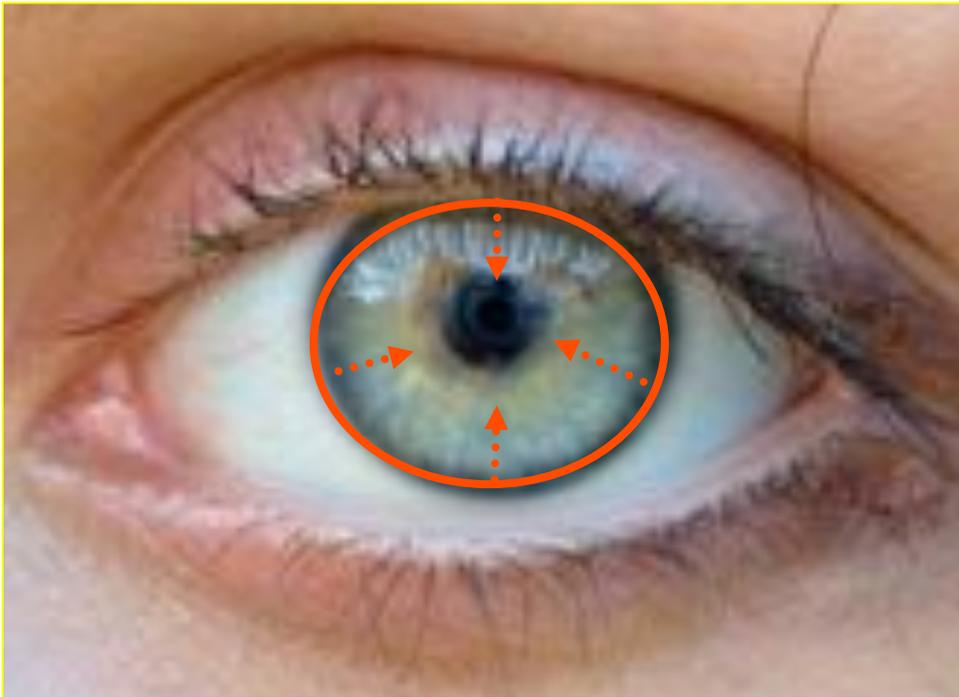


Sécrétion d'insuline  
et de glucagon

# R&D: TISSUS OSSEUX



# R&D: TISSUS DE CORNEE



# R&D: TISSUS NERVEUX

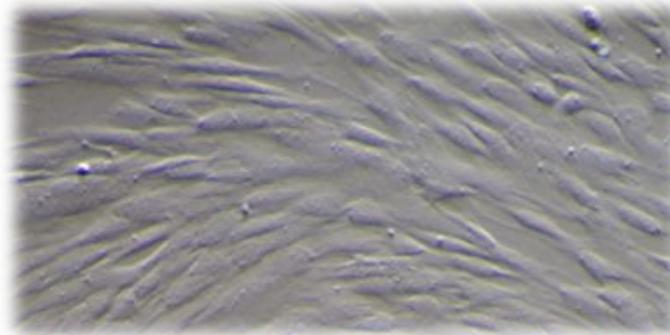
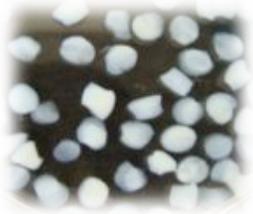
Isolation

Expansion

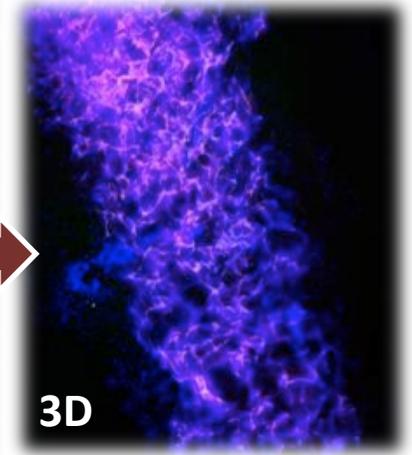
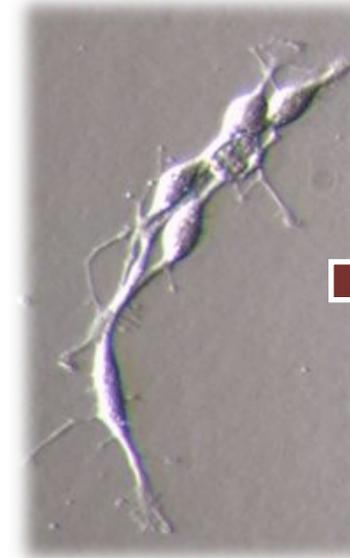
Différenciation

Maturation

Application

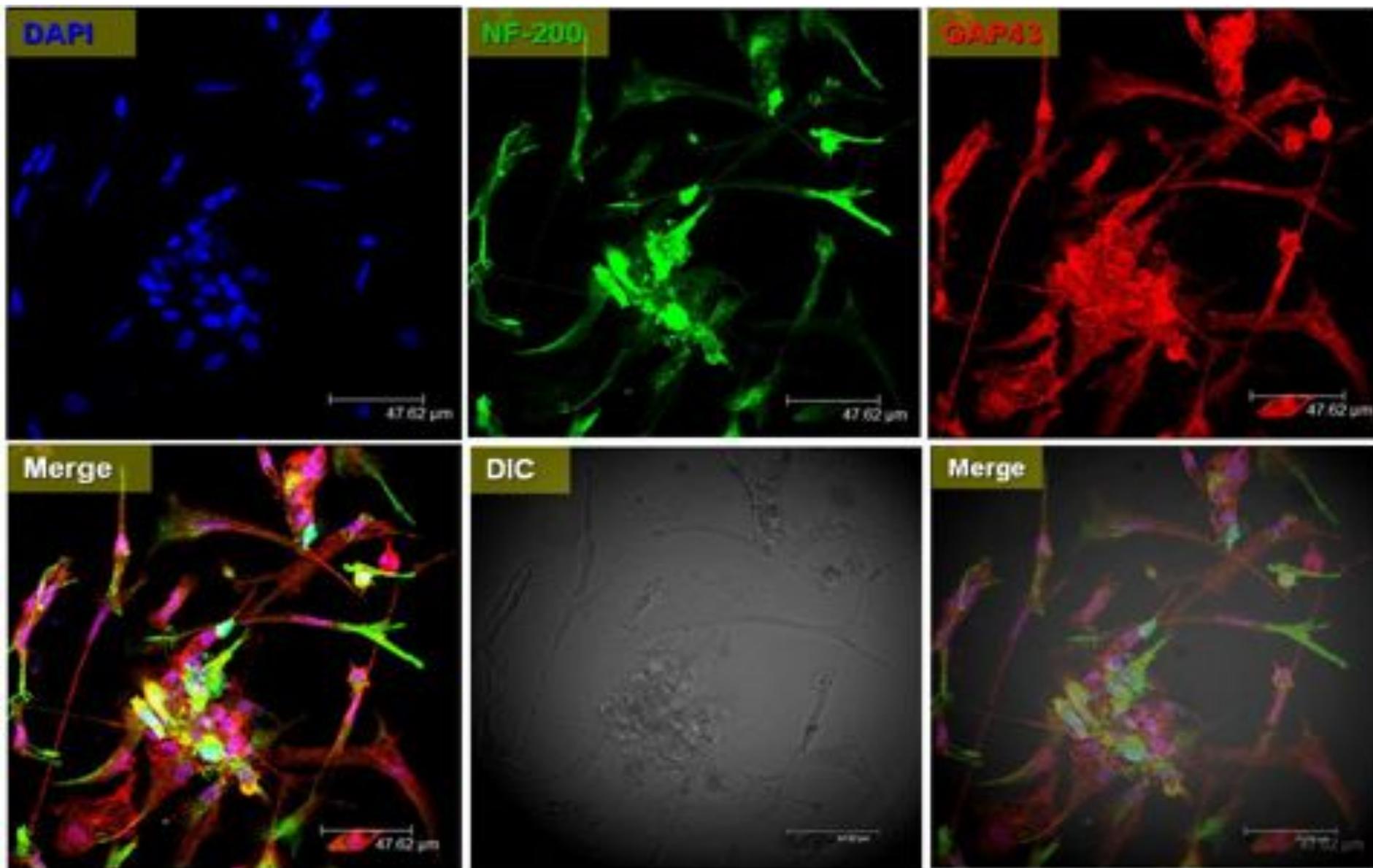


+ facteurs de  
différenciation



Infirmité motrice cérébrale (IMC)  
Accidents vasculaires cérébraux  
(AVC)

# Neurones (24 jours)



# Recherche Clinique: Hypoxie encéphalique néonatale

- PHRC 2011
- COLLABORATION AP-Hopitaux de Marseille et Université de Marseille
- 14 CHU en France + une vingtaine de maternités
- Programme Européen en cours de préparation

# Recherche Clinique: Traitement des fentes labiales et palatines

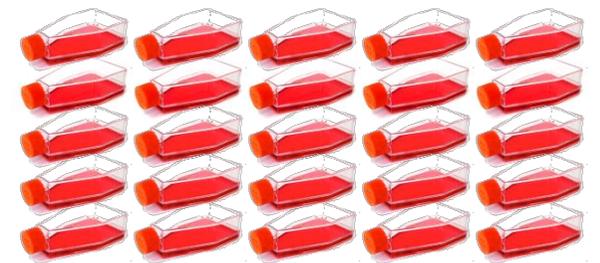
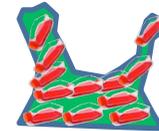


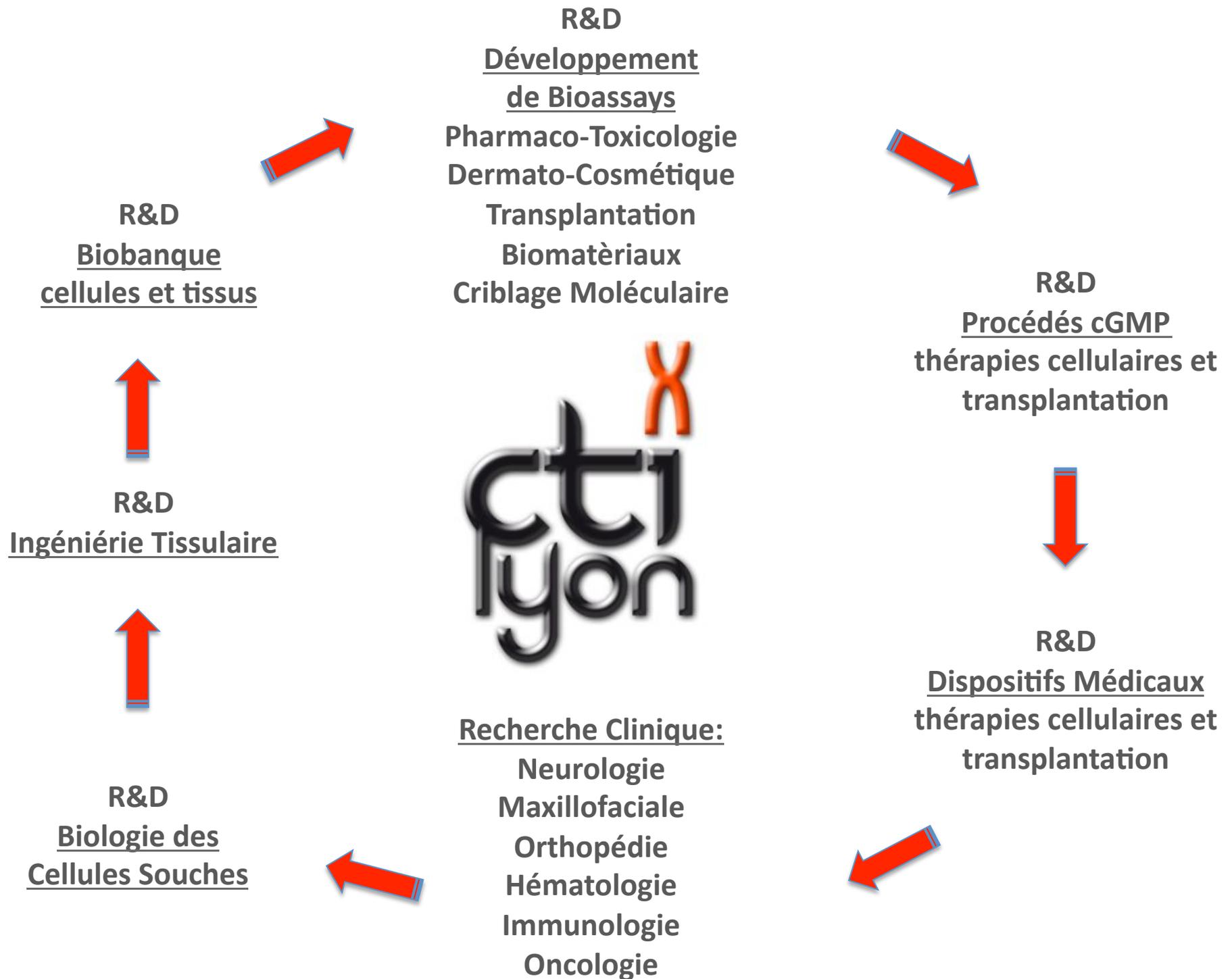


**Complete  
cleft palate**



**Bilateral  
Complete**







Institut de Recherche  
en Thérapie Cellulaire

...Agir aujourd'hui pour  
les thérapies de demain...

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