# Papier ageing - Figure 1 partie bioinformatique

#### Partenariat des équipes de:

- Dr. Fabien LE GRAND
- Dr. Bénédicte CHAZAUD
- Dr. Jérôme FEIGE

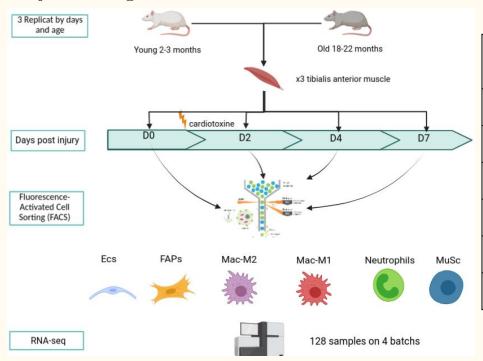
#### Contributeurs:

- PhD Hoang DIEU-HUONG
- IE Johanna GALVIS-LACROUX
- IE William JARASSIER
- IE Pauline MOULLÉ

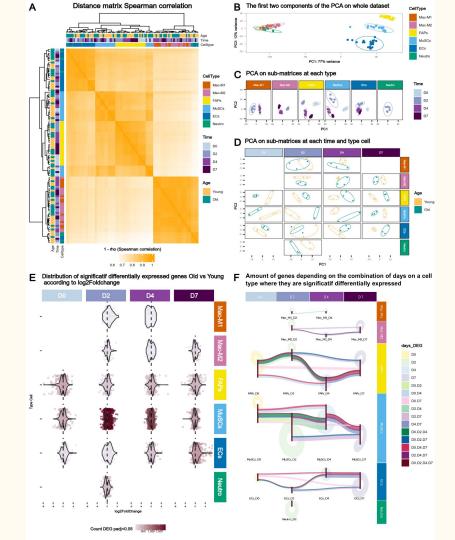


# RNA-seq de 6 types cellulaires au cours de la régénération du tissus musculaire de souris jeunes et agées

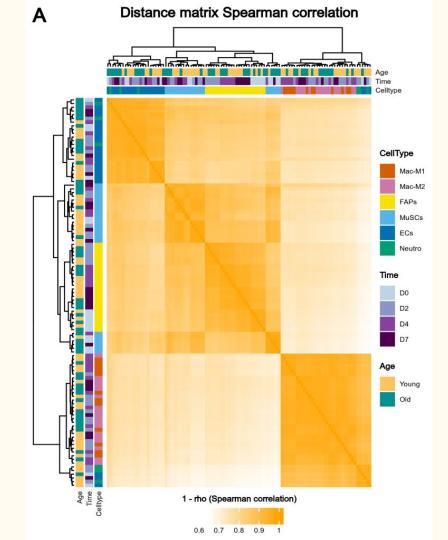
Explorer l'expression du micro-environnement au cours de la régénération et trouver les différences entre les souris jeunes et agées



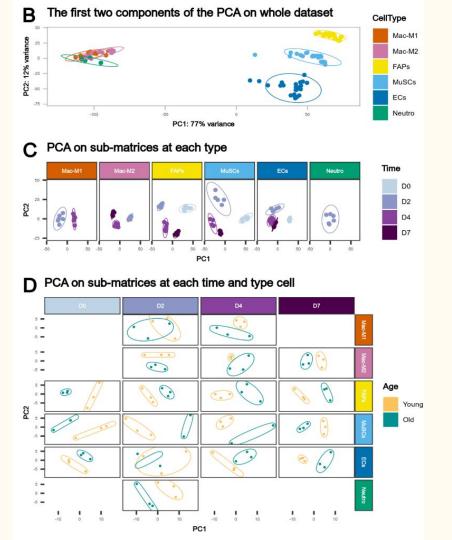
Cell sequenced	D0	D2	D4	D7
ECs				
FAPs				
MuSc				
Neutrophils				
Inflammatory-Mac				
Resolving-Mac				



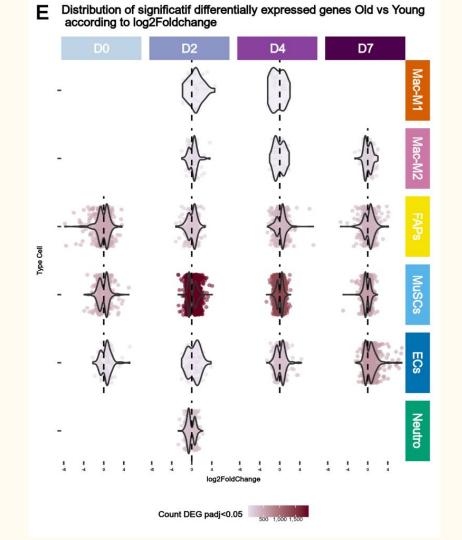
### Figure 1-A



#### Figure 1-B-C-D

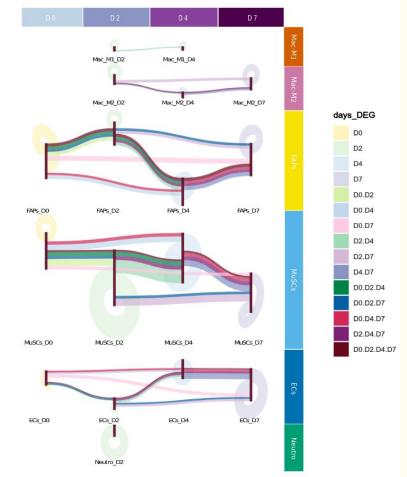


#### Figure 1-E

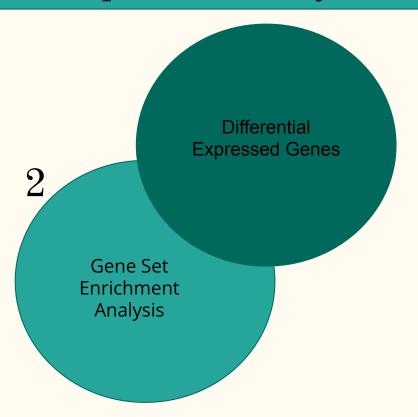


#### Figure 1-E

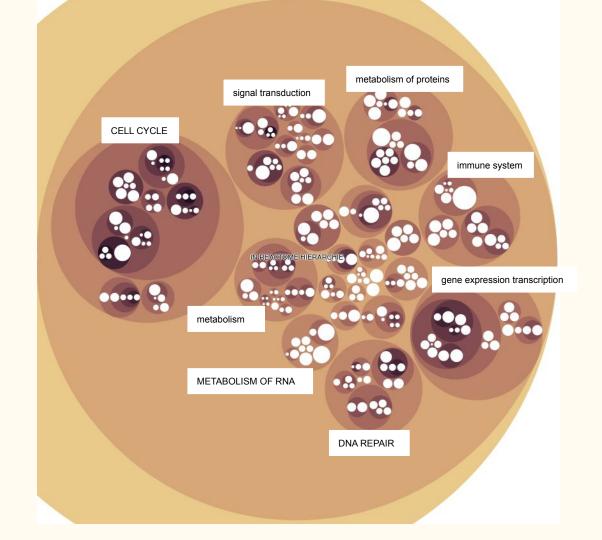
Amount of genes depending on the combination of days on a cell type where they are significatif differentially expressed

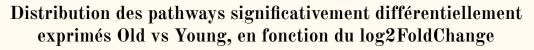


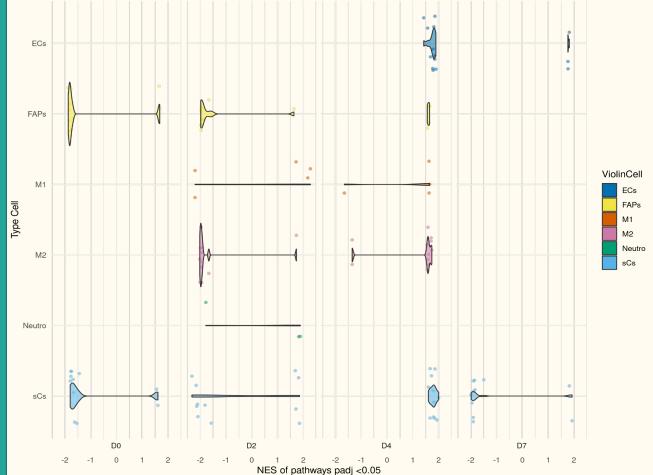
## Étapes de l'analyse

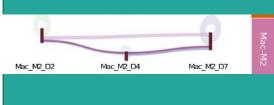


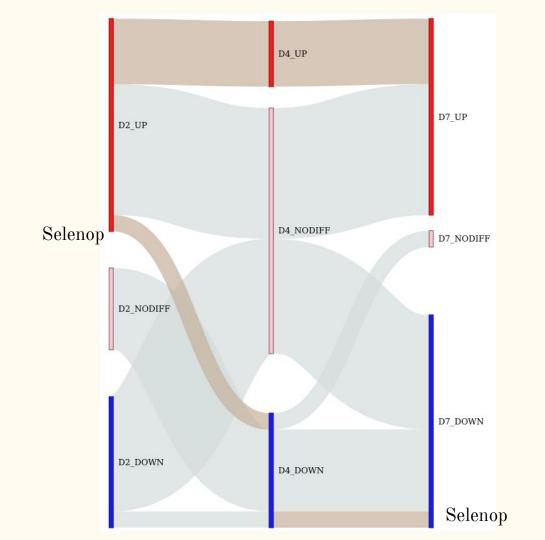
- → Algorithme : fGEA utilisé avec R
- → Base de donnée:
- ◆ Genes Set from Molecular Signatures Database (MSigDB) species Mus musculus
- category C2 subcategory = Canonical pathways
  Reactome database
- Réalisée sur un jour données à un type cellulaire choisi
- Sur tous les "gènes"
- Trié par signe du log2FoldChange \* log10(padj)











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