

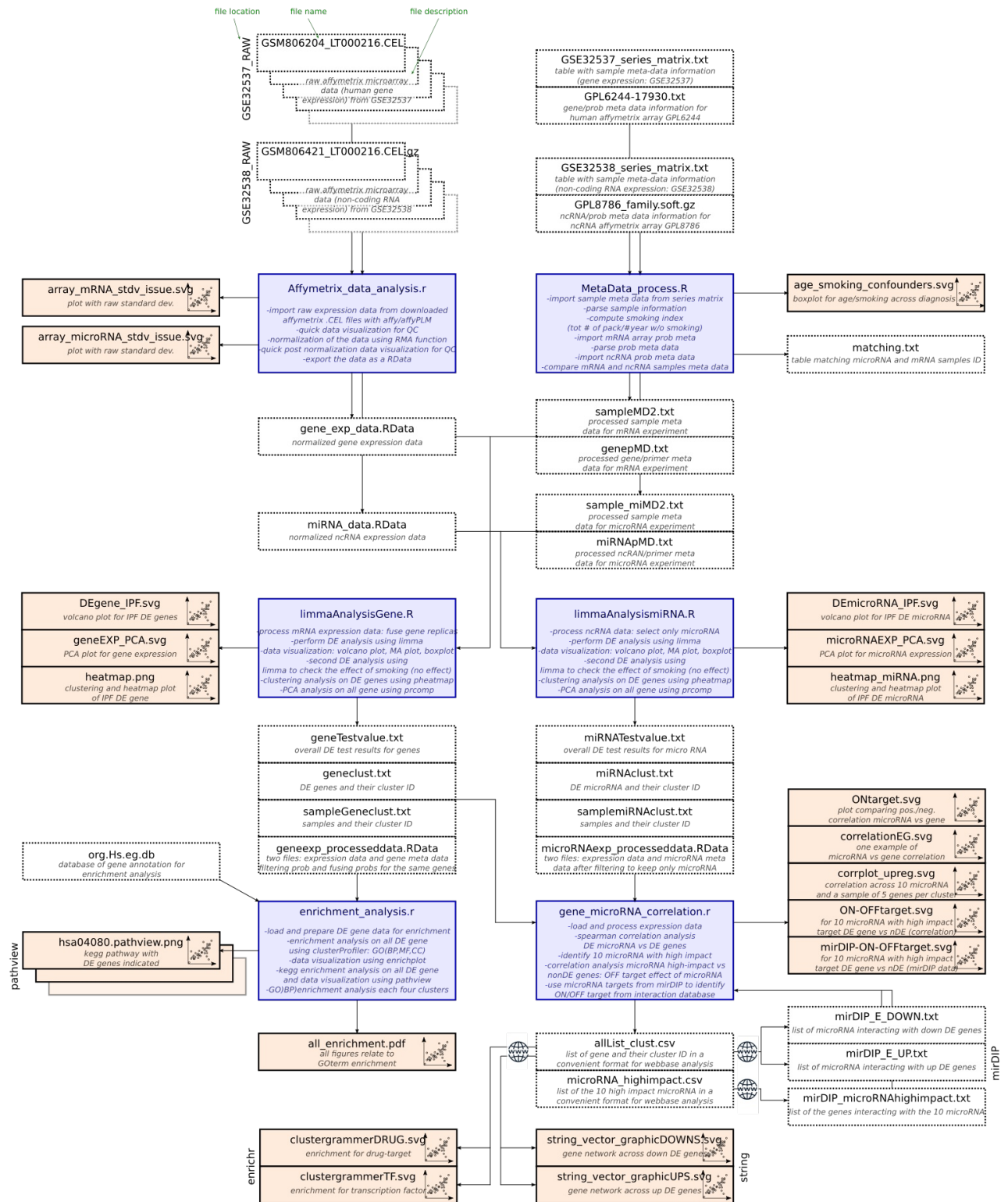
Genes and microRNAs expression signature of idiopathic pulmonary fibrosis

Christian Brion
MA. USA, 03/2022

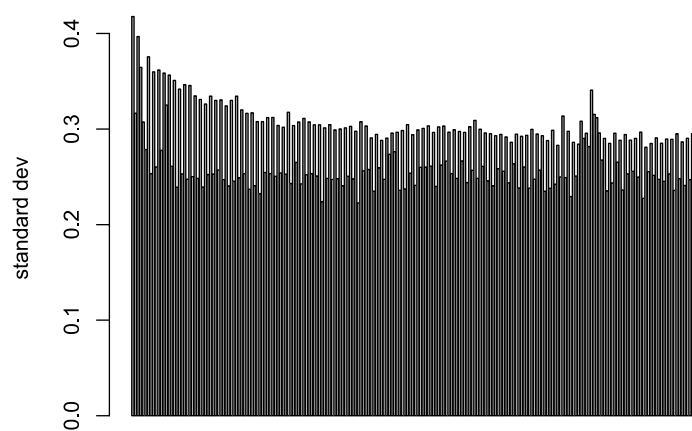
Introduction

Rational

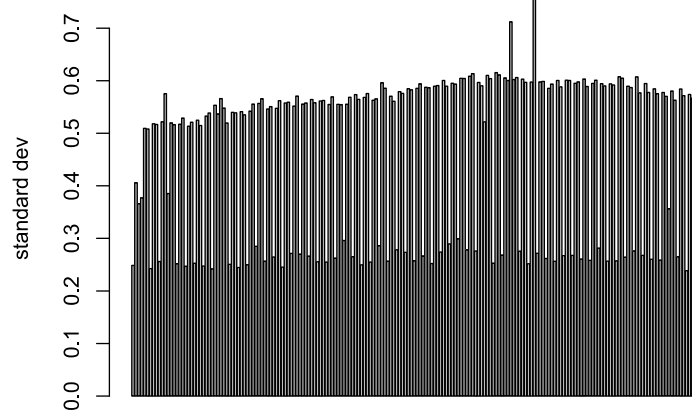
Pipeline



Data importation and normalization

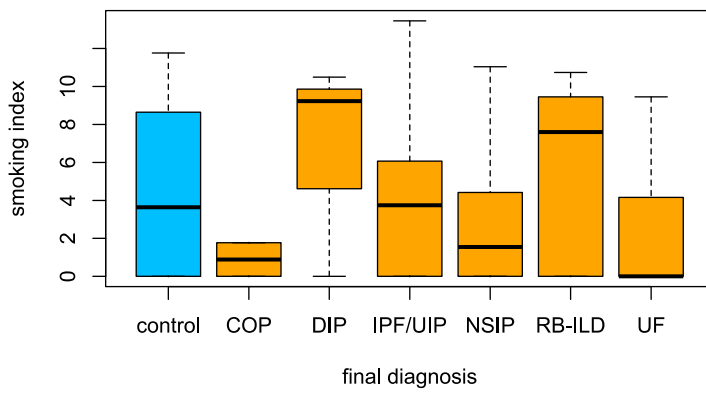
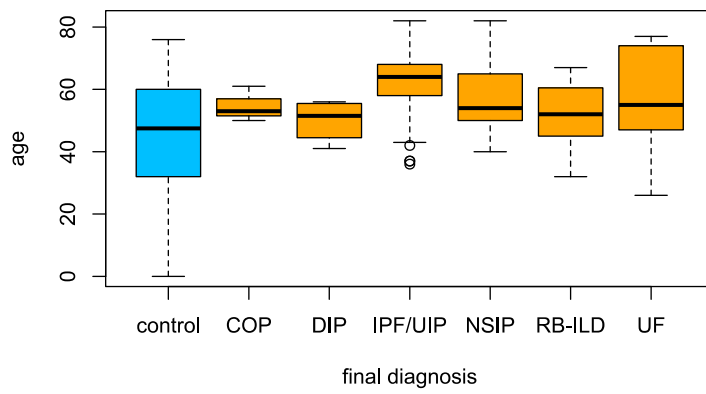


mRNA array samples



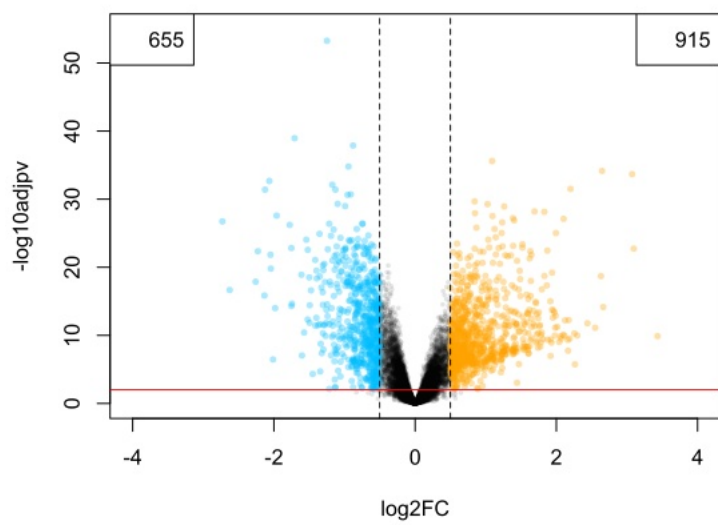
microRNA array samples

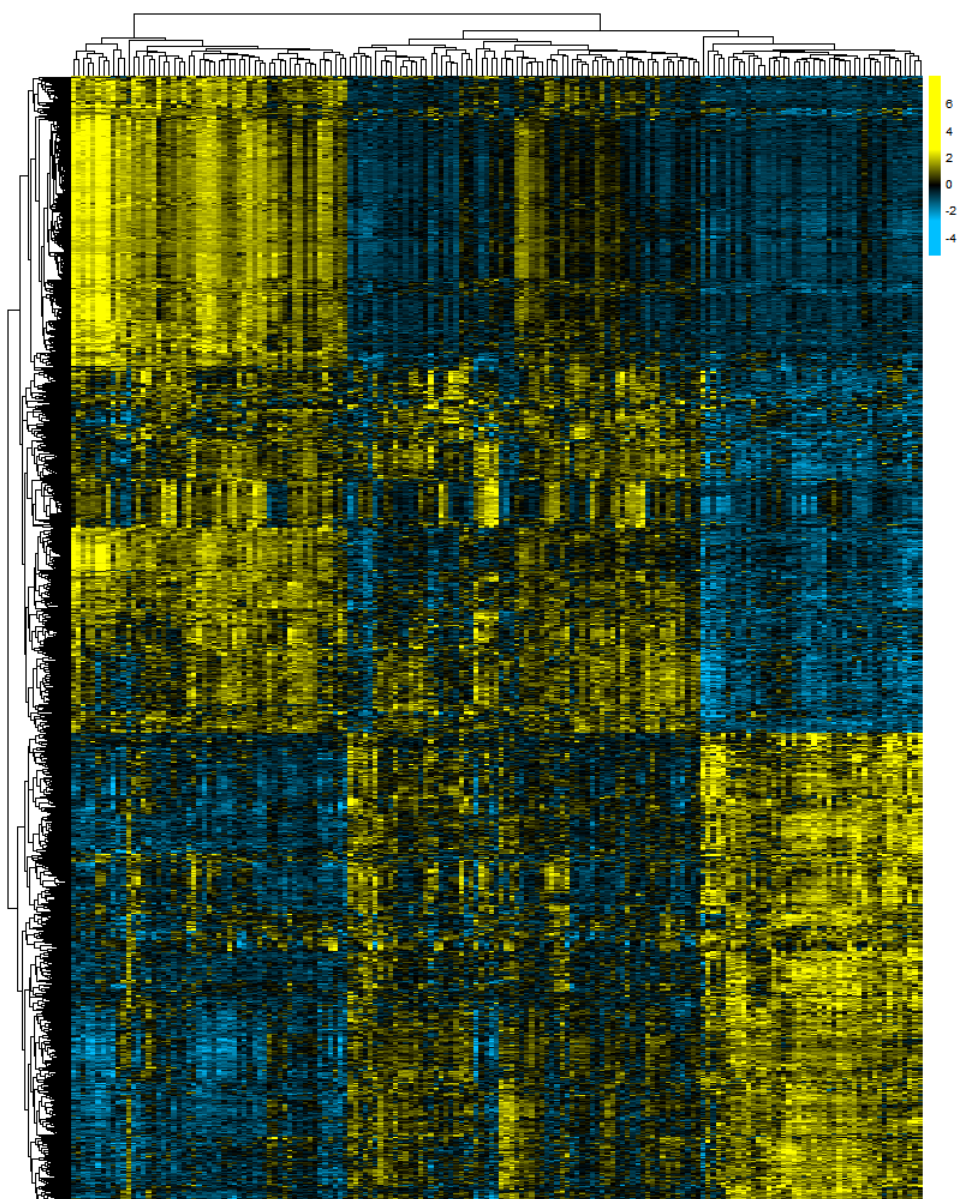
Sample meta data analysis

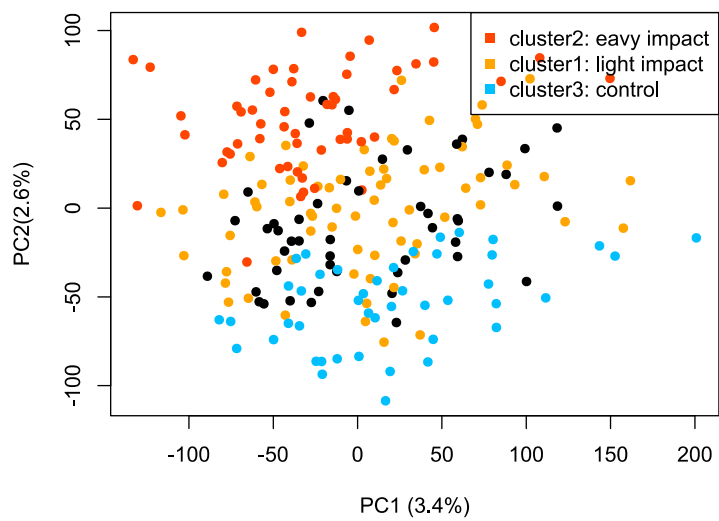


Gene differential expression analysis

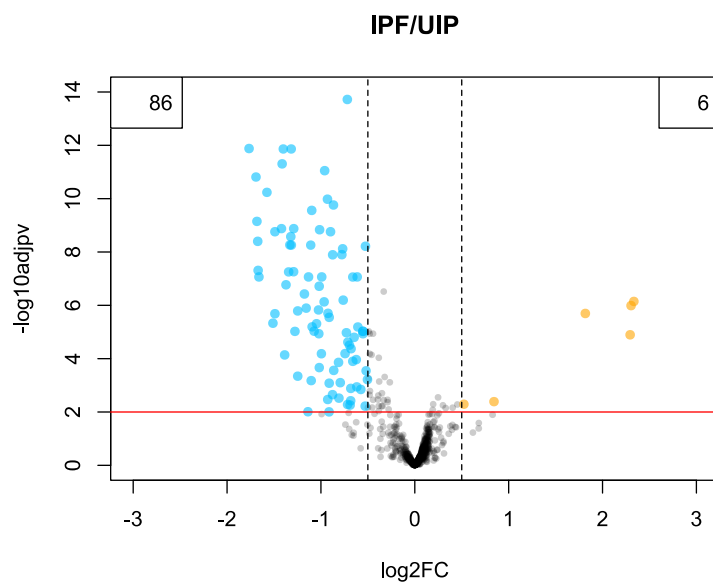
IPF/UIP

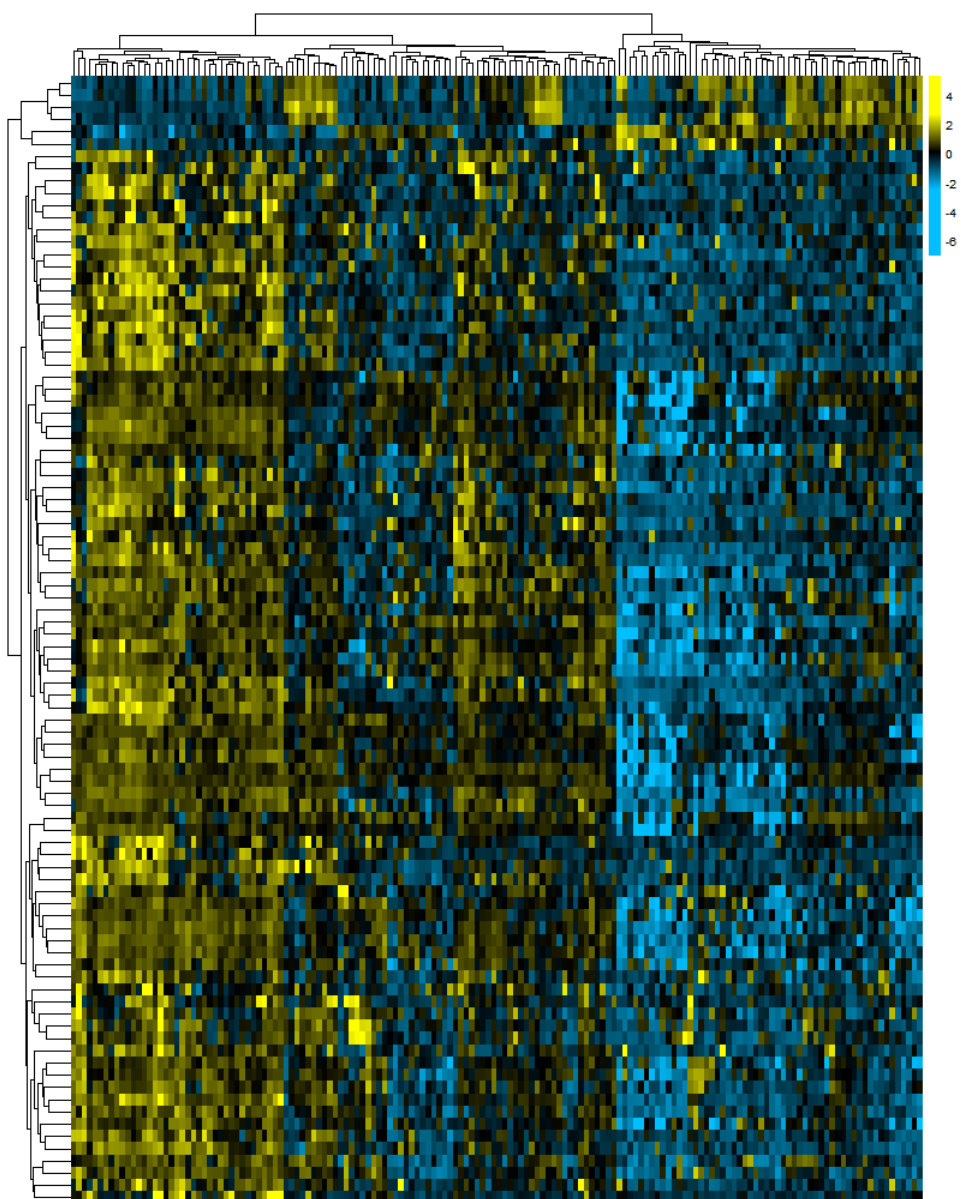


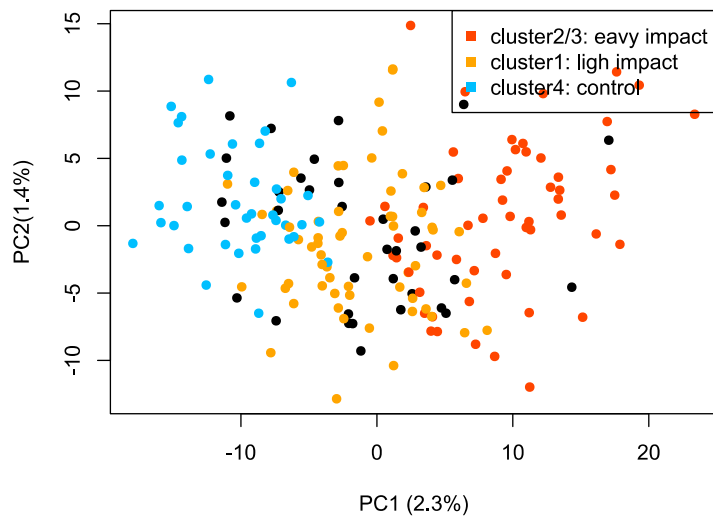




MicroRNA differential expression analysis





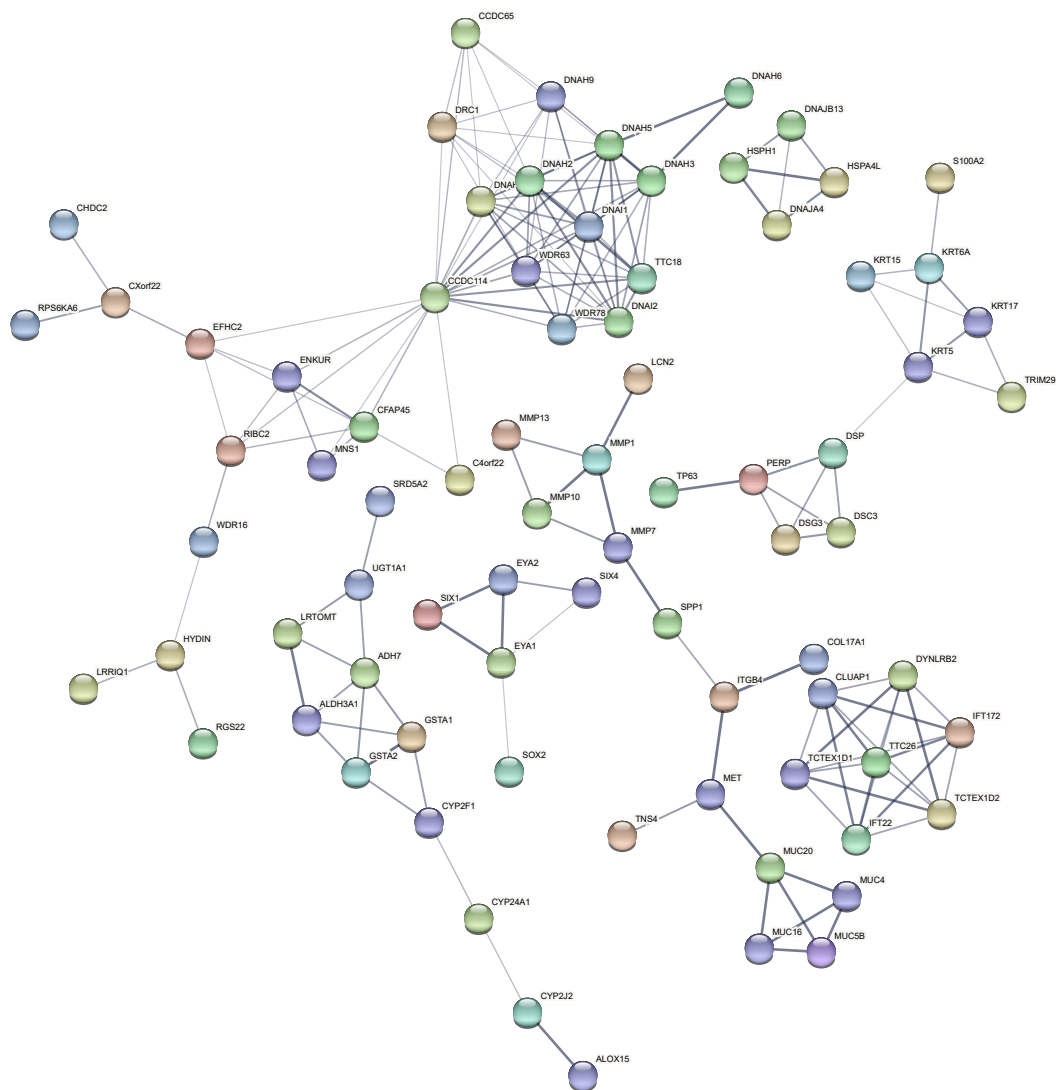


Enrichment analysis

-GO term

-kegg pathway

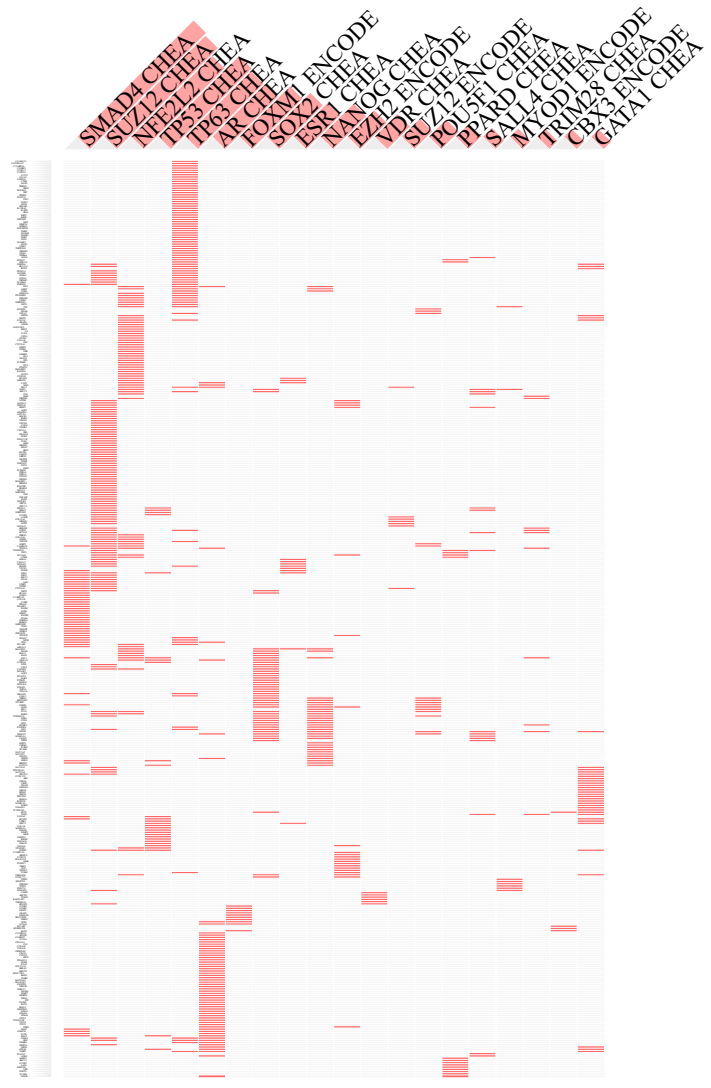
-gene network



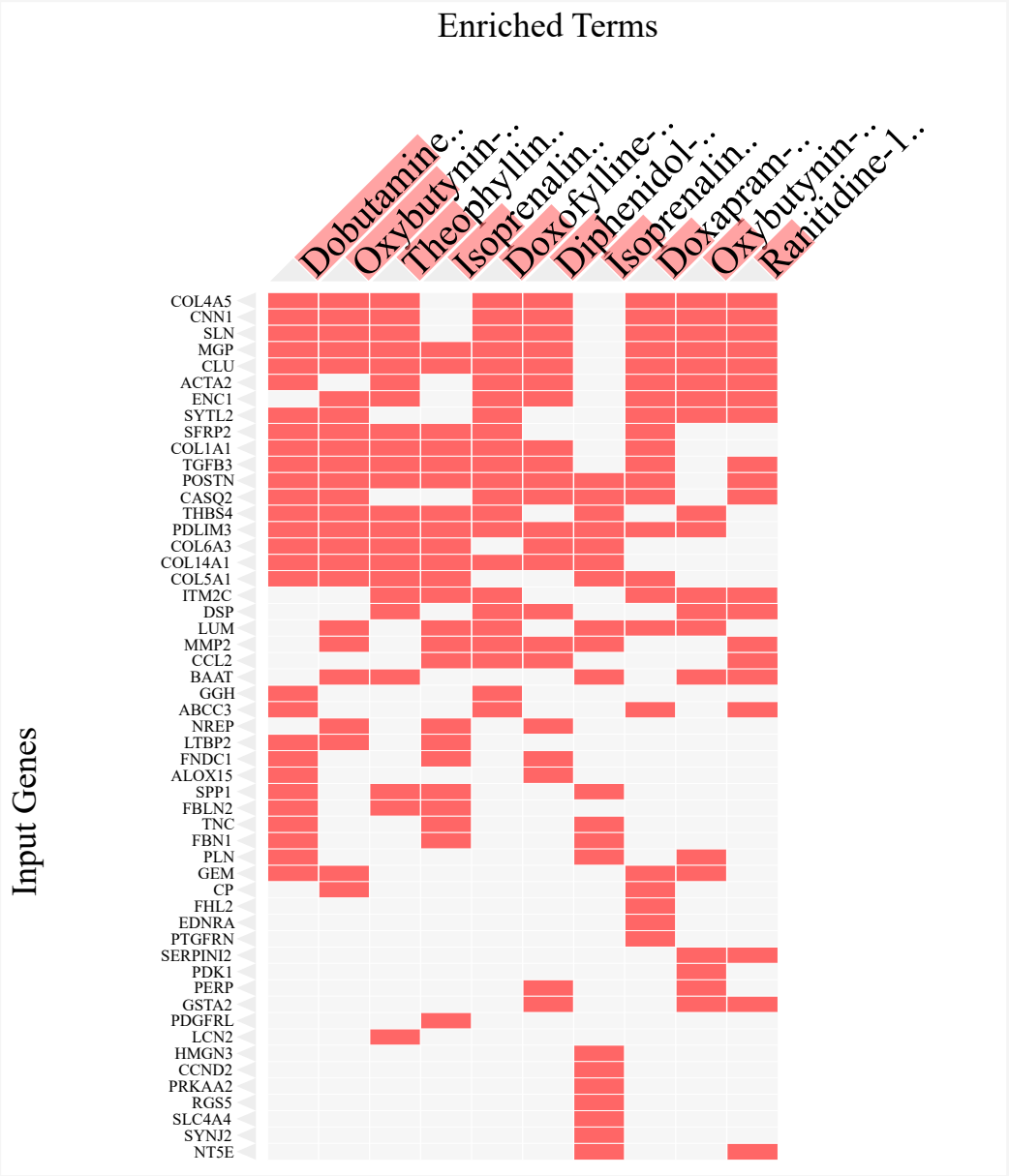
-transcription factor

Input Genes

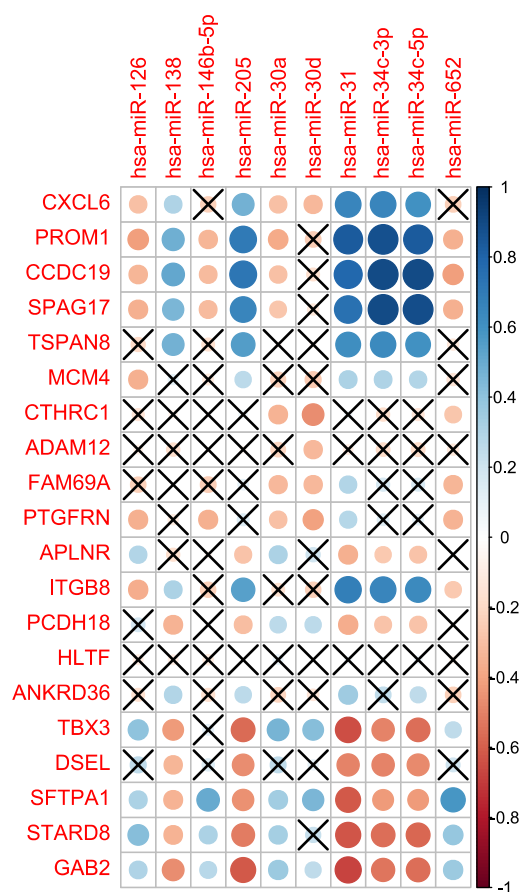
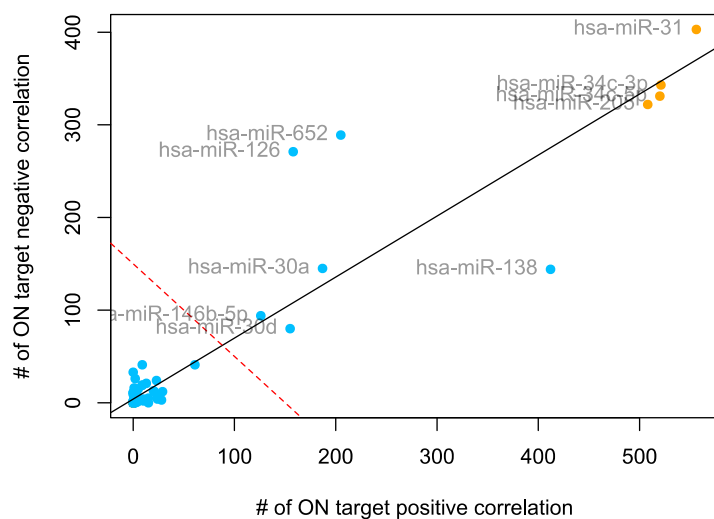
Enriched Terms

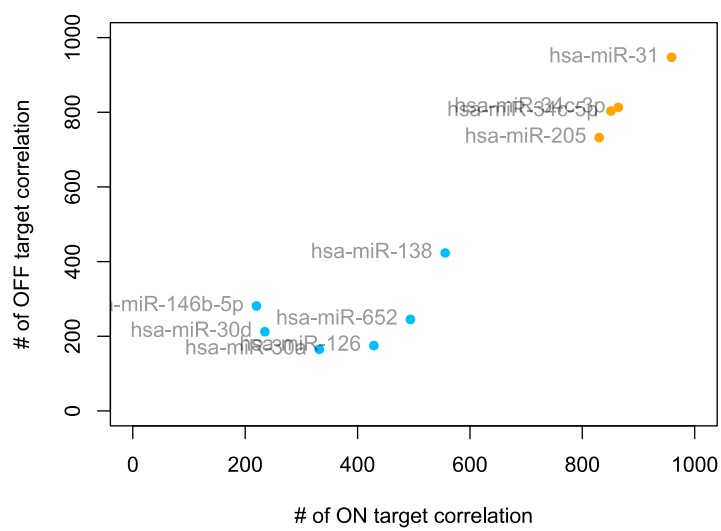
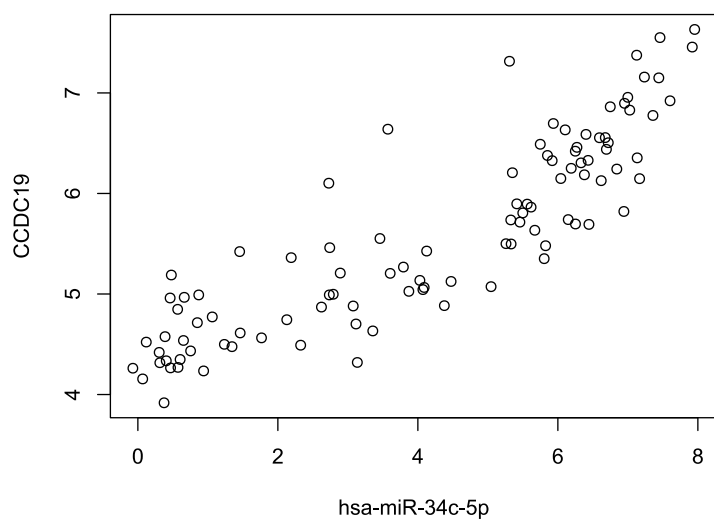


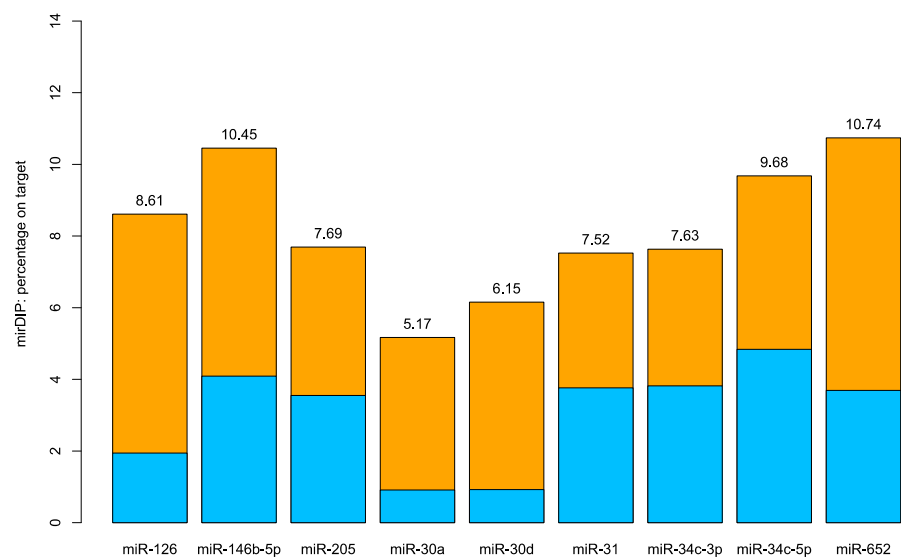
-drug target



Linking microRNA expression to gene expression changes







Discussion and perspective