

# Feng Group

- In vivo live imaging of tumour initiation in zebrafish to investigate immune vs pre-neoplastic cell (PNC) interaction (mathematical modelling + scRNAseq+imaging)
- Mechanisms that regulate host innate immune cell function during tumour initiation (scRNAseq + zebrafish tissue specific CAS9 mediated gene KO)
- Combining Metabolomic, Imaging Mass Spectrometry and scRNAseq to characterization metabolic changes in PNC developing niche (early detection & prevention)
- Imaging based automated drug screening for cancer-preventing chemicals

## Mechanisms that regulate tumour initiation, for early cancer detection and prevention

