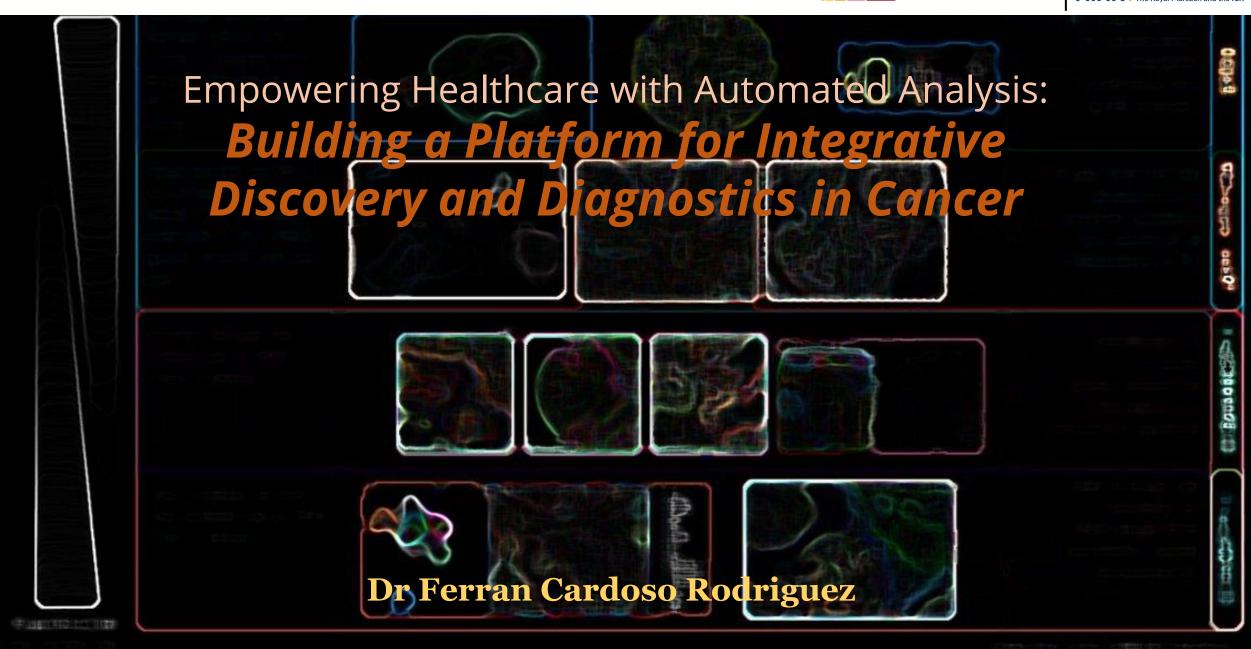


The ROYAL MARSDEN

NHS Foundation Trust

Biomedical Research Centre at



Accessibility



Open Link for Slides and Transcript



Background





BSc in Biotechnology

• Universitat de Barcelona, 2014-2018



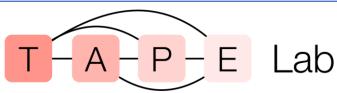
MSc in Bioinformatics and Theoretical Systems Biology

• Imperial College London, 2018-2019



PhD in Computational Biology

• University College London, 2019-2023



Tools for MC data analysis

Knowledge Graphs for Cell Comms.

Extrinsic and intrinsic CSC regulation

Landscapes of CSC polarisation

3

The Integrated Pathology Unit





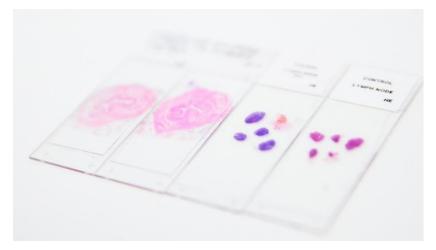
Senior Scientific Officer

Institute of Cancer Research





Integrated Pathology Unit



The ROYAL MARSDEN

NHS Foundation Trust



Our Challenge

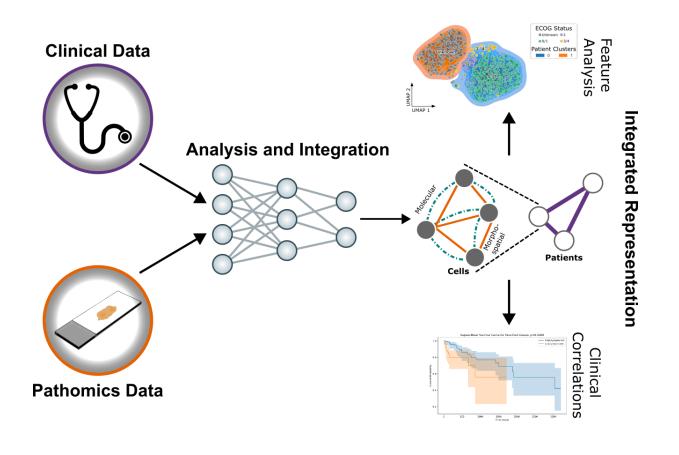


We Need an Analysis Platform!

The Solution: POPIDD



Platform for Integrative Discovery and Diagnostics



Modular Backend





Accessible Frontend

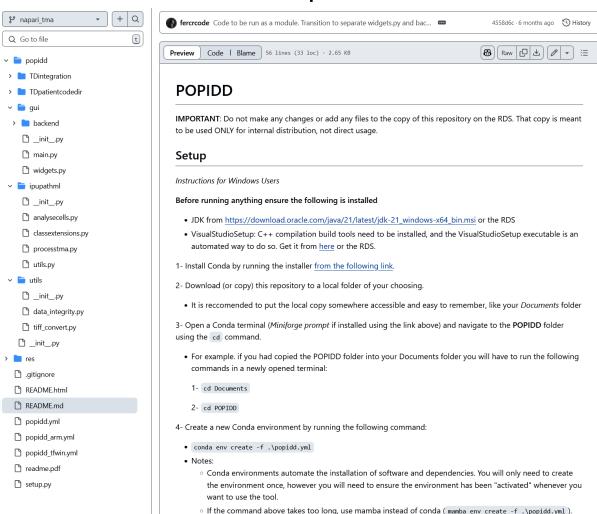




Backend



Main Pipeline



Napari Plugins



Standalone Packages

Q Go to file

> 📄 .github

pyhscore

init_.py

modidx.py

score.py

.gitignore

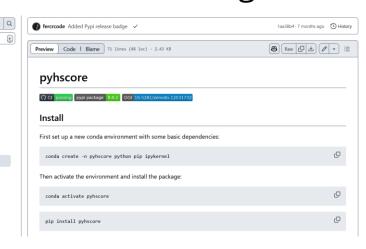
LICENSE

MANIFEST.in

README.md

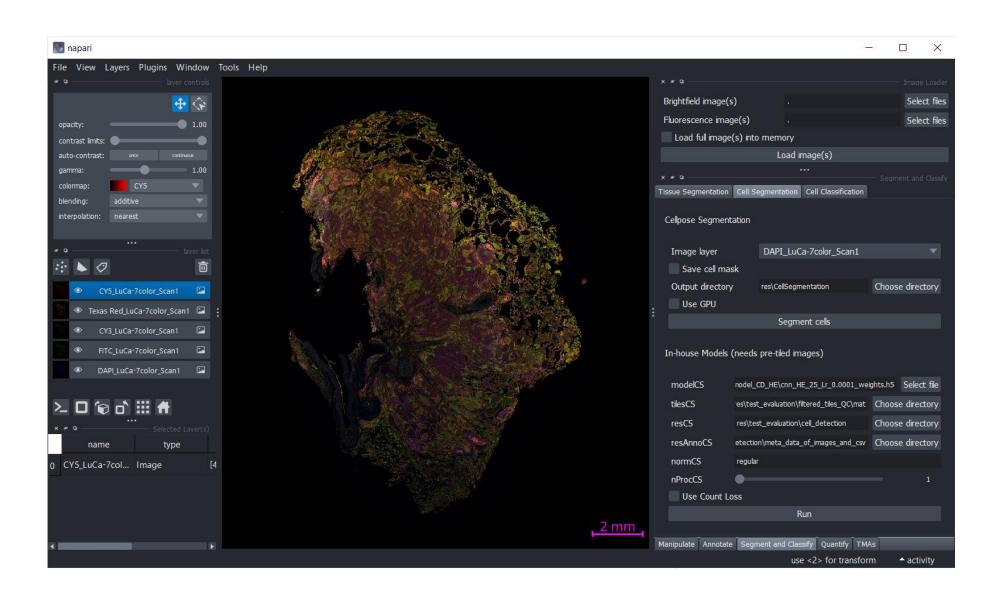
setup.py

> 📄 nbs



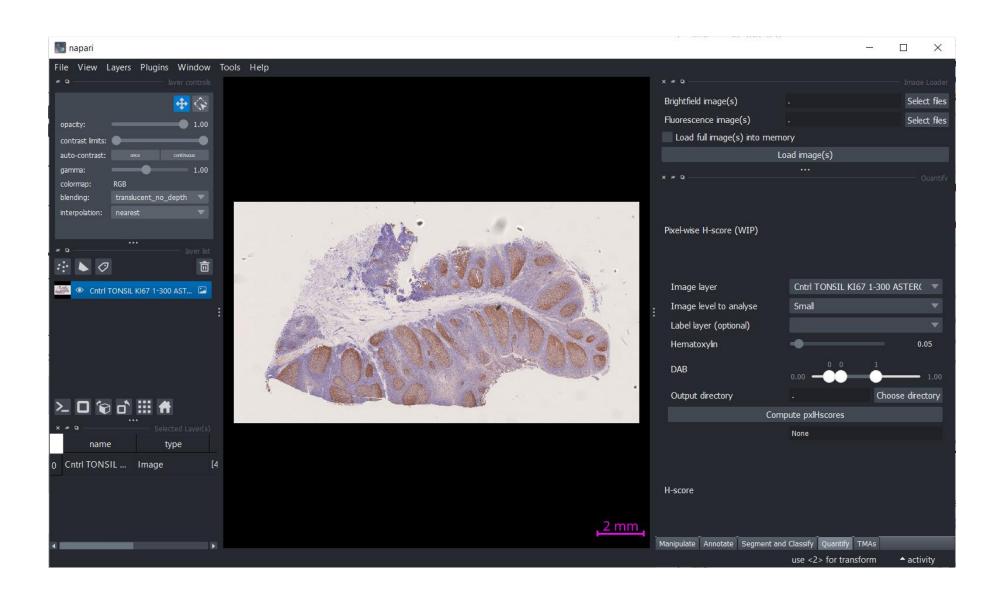
Frontend: Tissue and Cell Segmentation





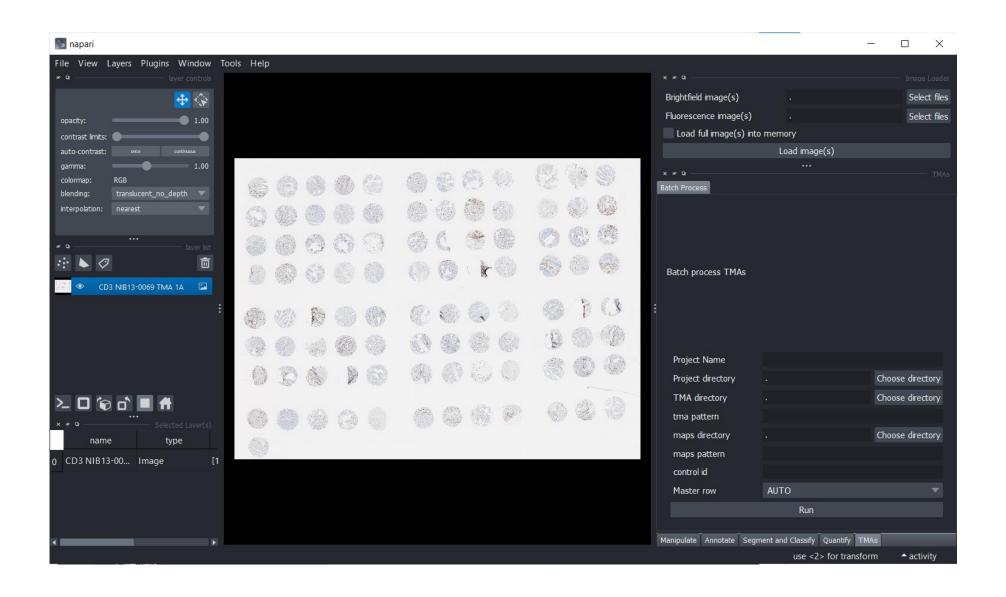
Frontend: IHC Quantification





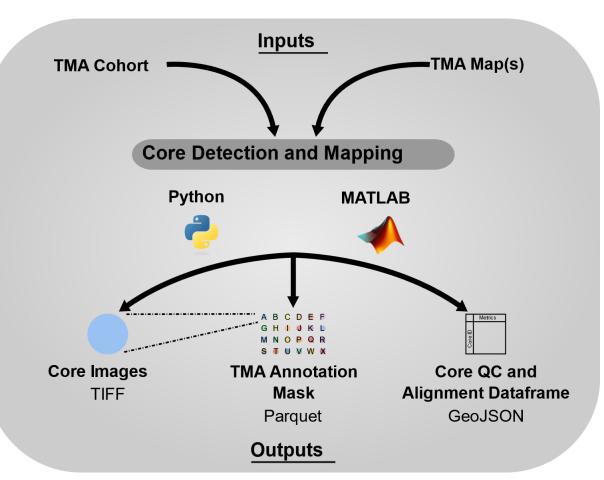
Frontend: TMA Alignment

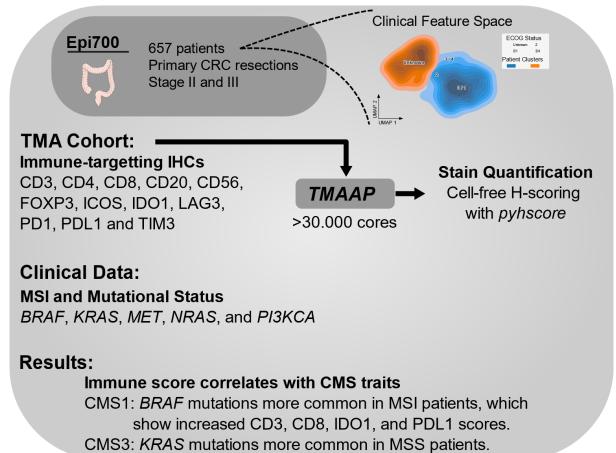




Applied to IHC TMA Cohort







IPU Releases



The Integrated Pathology Unit





TMAAP MATLAB (@ CCRA)



pyhscore (@ FCR), c-pmat (@ PLN), TMAAP Python (@ FCR)



popidd-io napari plugin (@ FCR)

