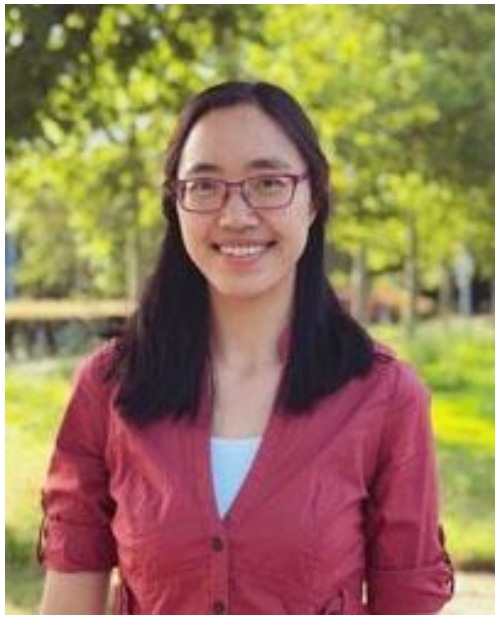
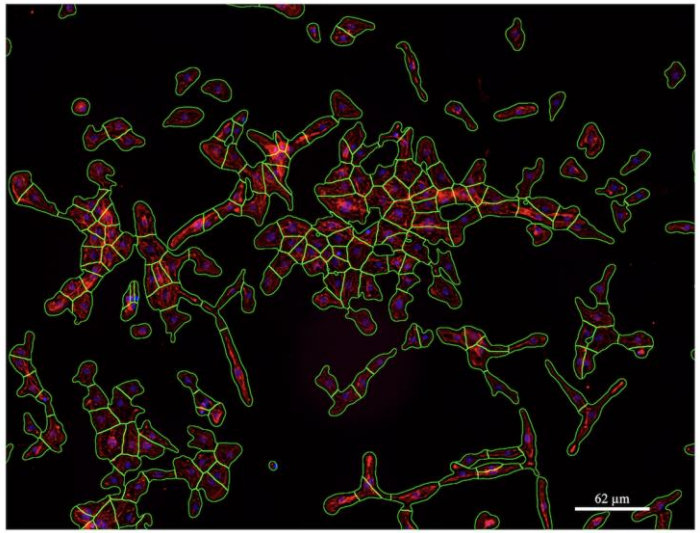
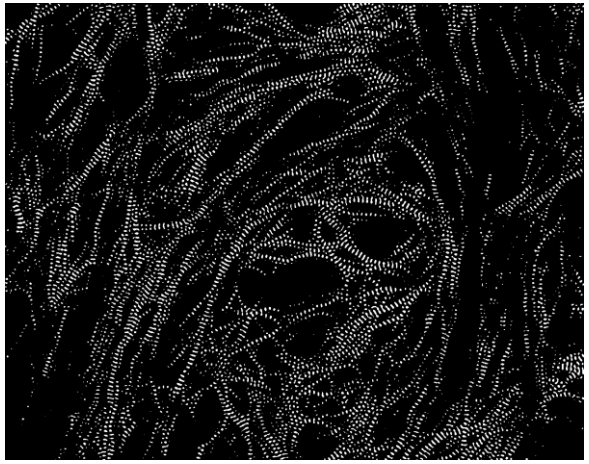
## Me & my Research

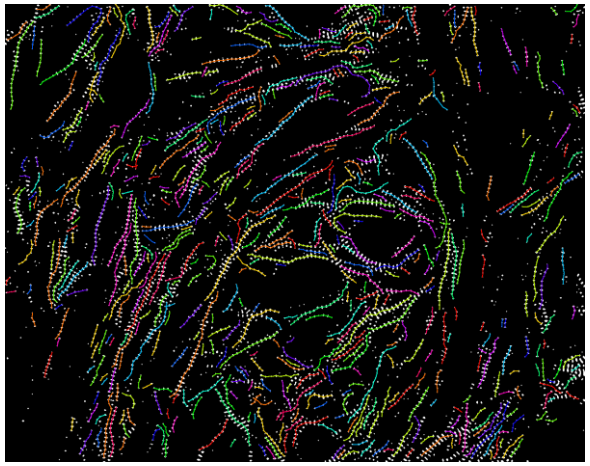


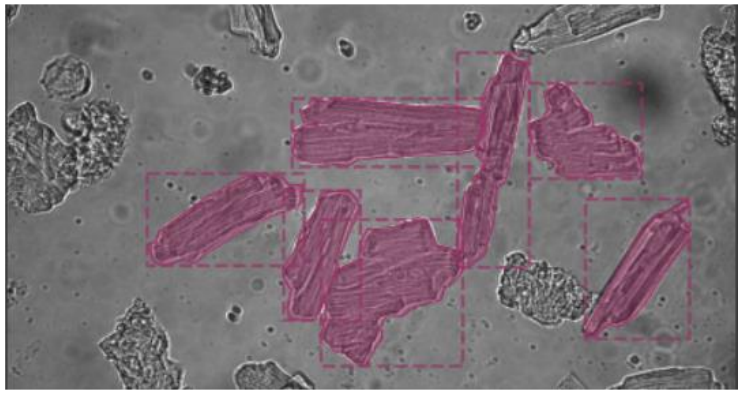
- Lu Cao, Assistant Professor, LIACS
- Automation and high-throughput image analysis
- Cardiotoxicity Study, Pollen classification, Cell tracking in 2D and 3D
- I am looking for biologists who are working with high-throughput system and trying to automate the image analysis pipeline.

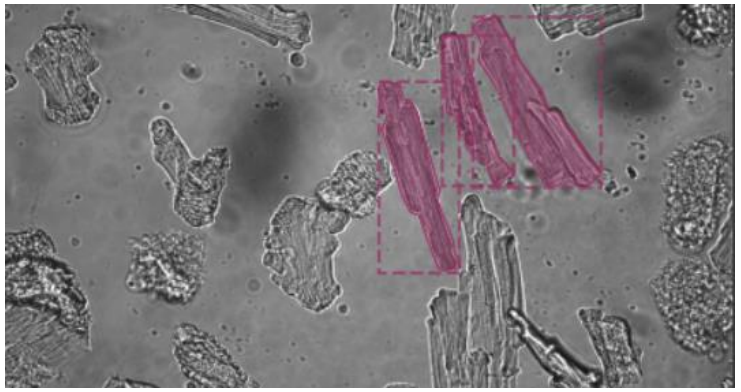
# My Research Expertise



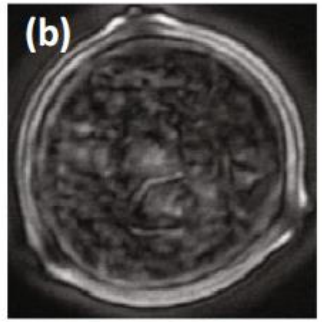




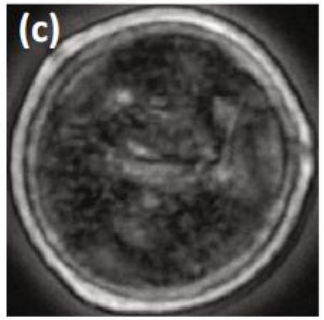


Input

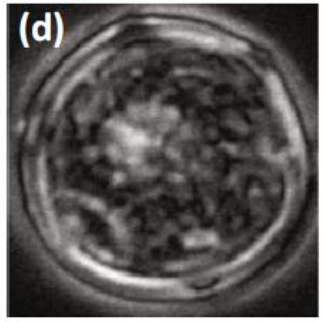
Output




*Urtica*

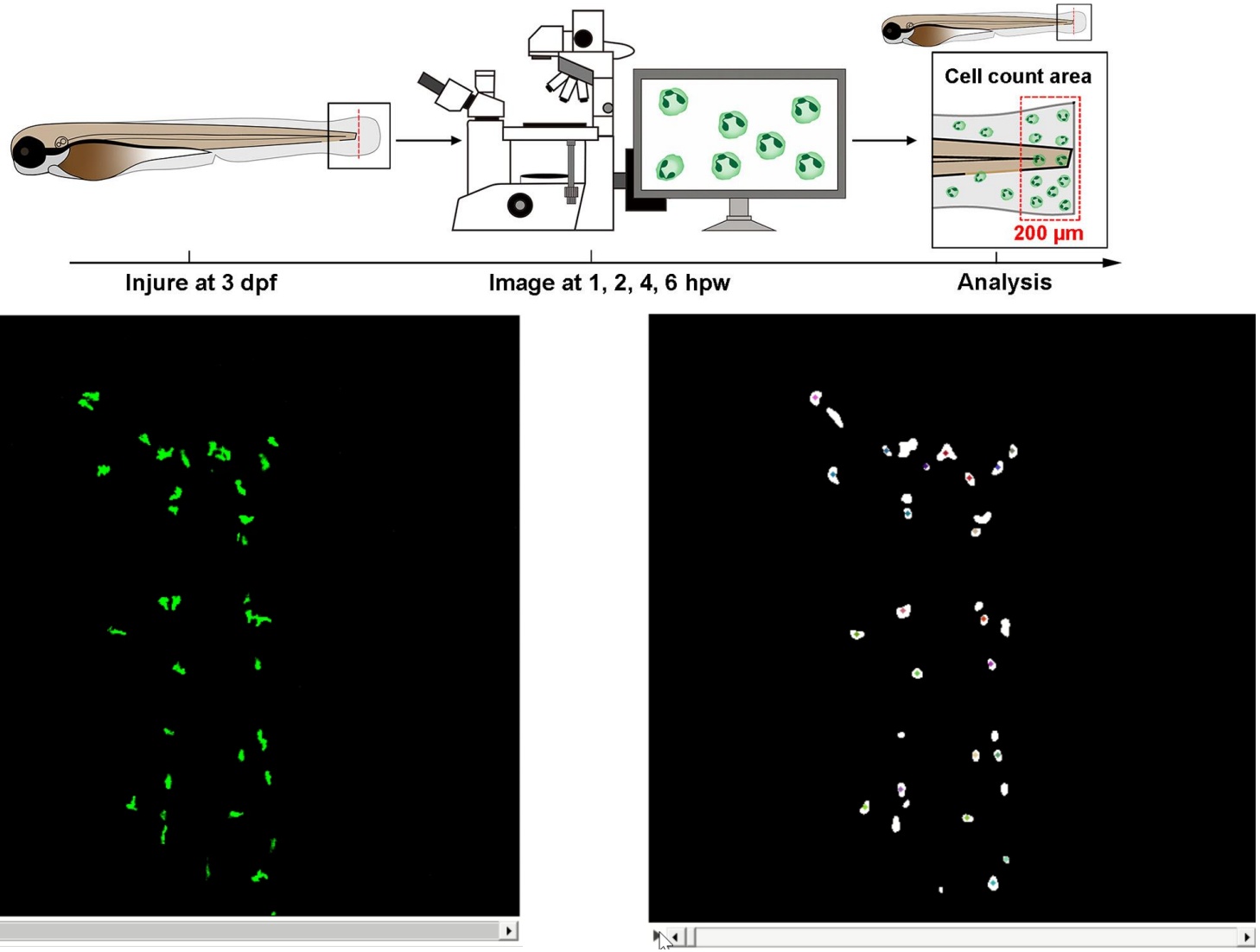



*Parietaria*




*U.mem*

# My Research Expertise




Ref: W Hu, L van Steijn, C Li, FJ Verbeek, L Cao, RMH Merks, HP Spaink, A novel function of TLR2 and MyD88 in the regulation of leukocyte cell migration behavior during wounding in zebrafish larvae. Frontiers in cell and developmental biology, Volume 9, 2021

## My Project Idea

- Automation is the key for high-throughput screening.
- Vision/Mission
  - AI-powered high-throughput image analysis
  - Constructing weakly supervised AI-models or models need less training data