



Developing a Jupyter Notebook for converting confocal microscopic images to 3D cell images and metrics calculation.

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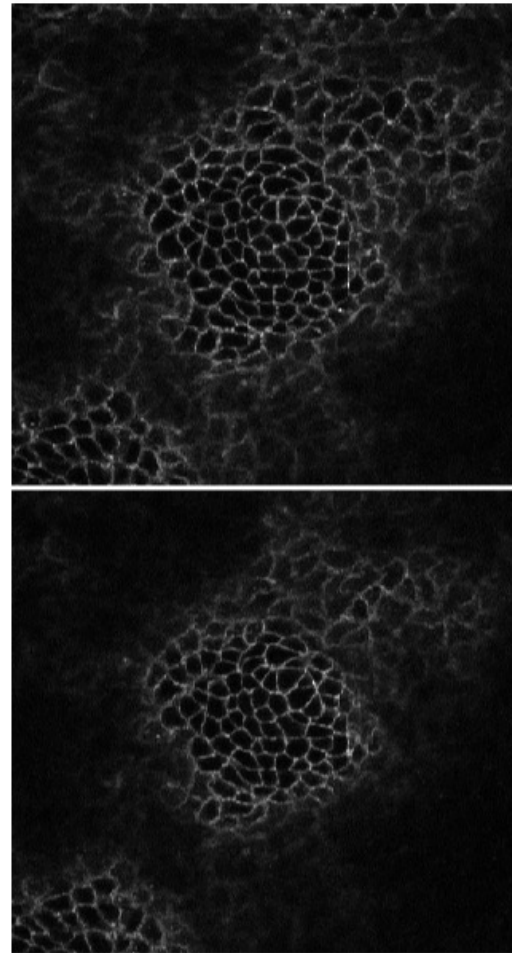
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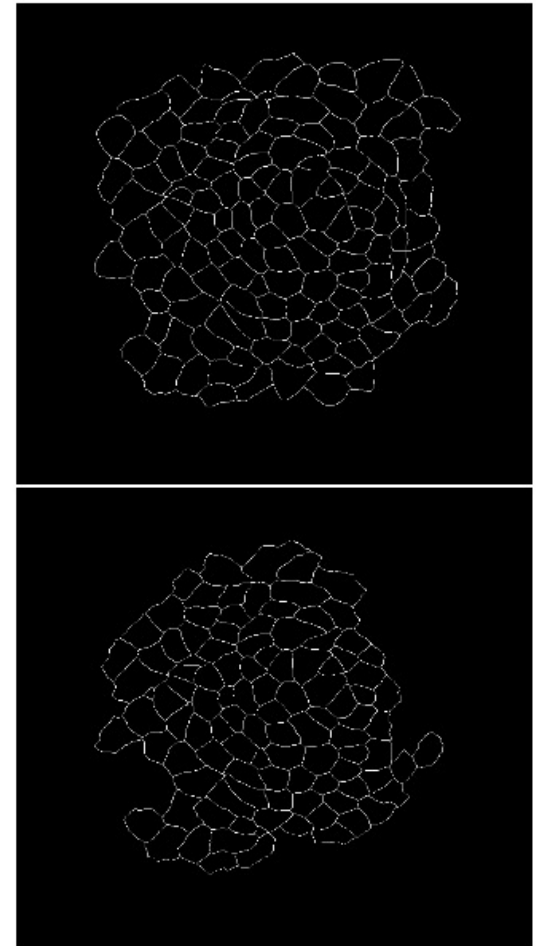
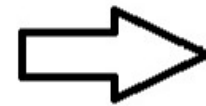
Project. 1st stage

Python library: **Cellpose** – to recognize cells, correspond them between depth layers.

Input is a 3D array *image.tif*.



input

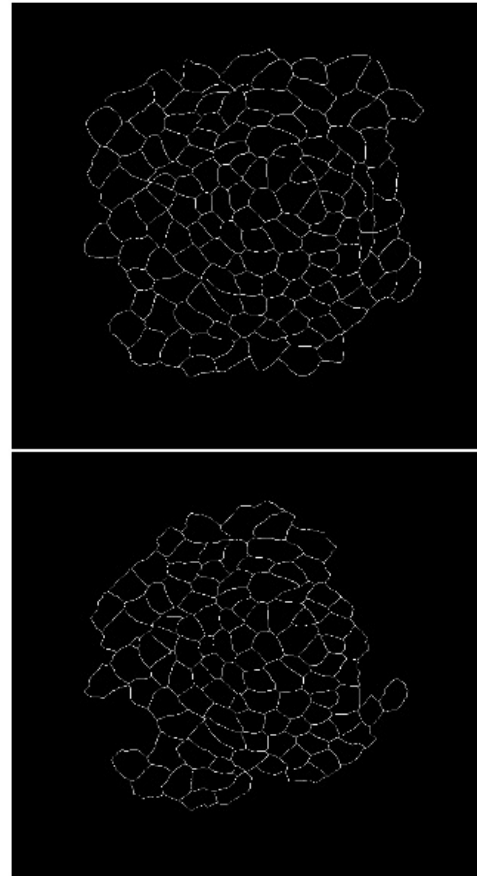


processing

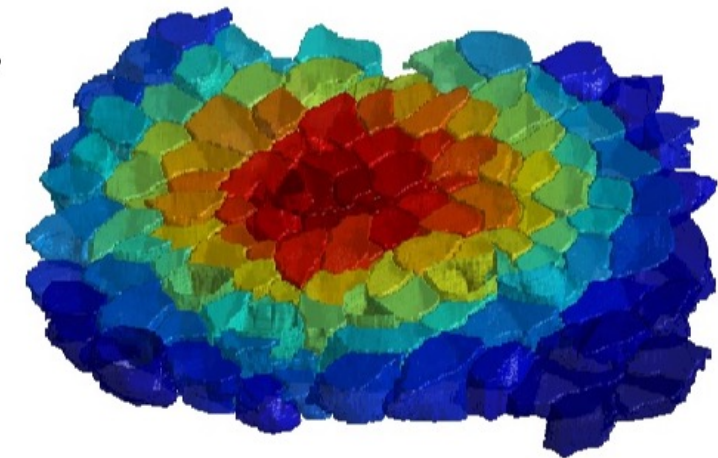
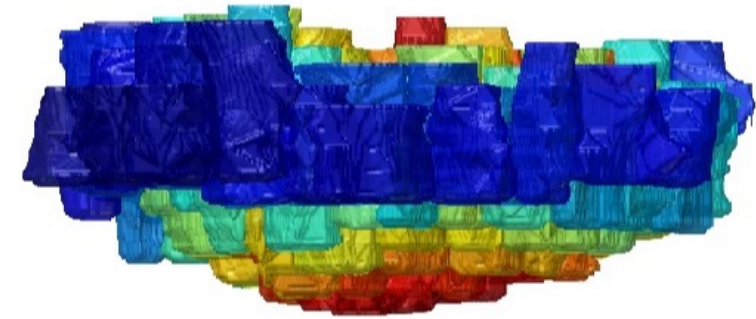
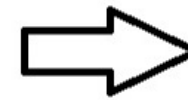
2nd stage

Python library: StarDist – to create a 3D image.

+ calculate cell features: volume, polarity, and cross-sectional area.



processing



output

Thank you!