

Cell phenotype detection 3DSpatialTissueJ plugin

<https://github.com/nhuhoa/Spatial3DTissueJ>

Hoa Tran

Workflow for tissue spatial organization analysis

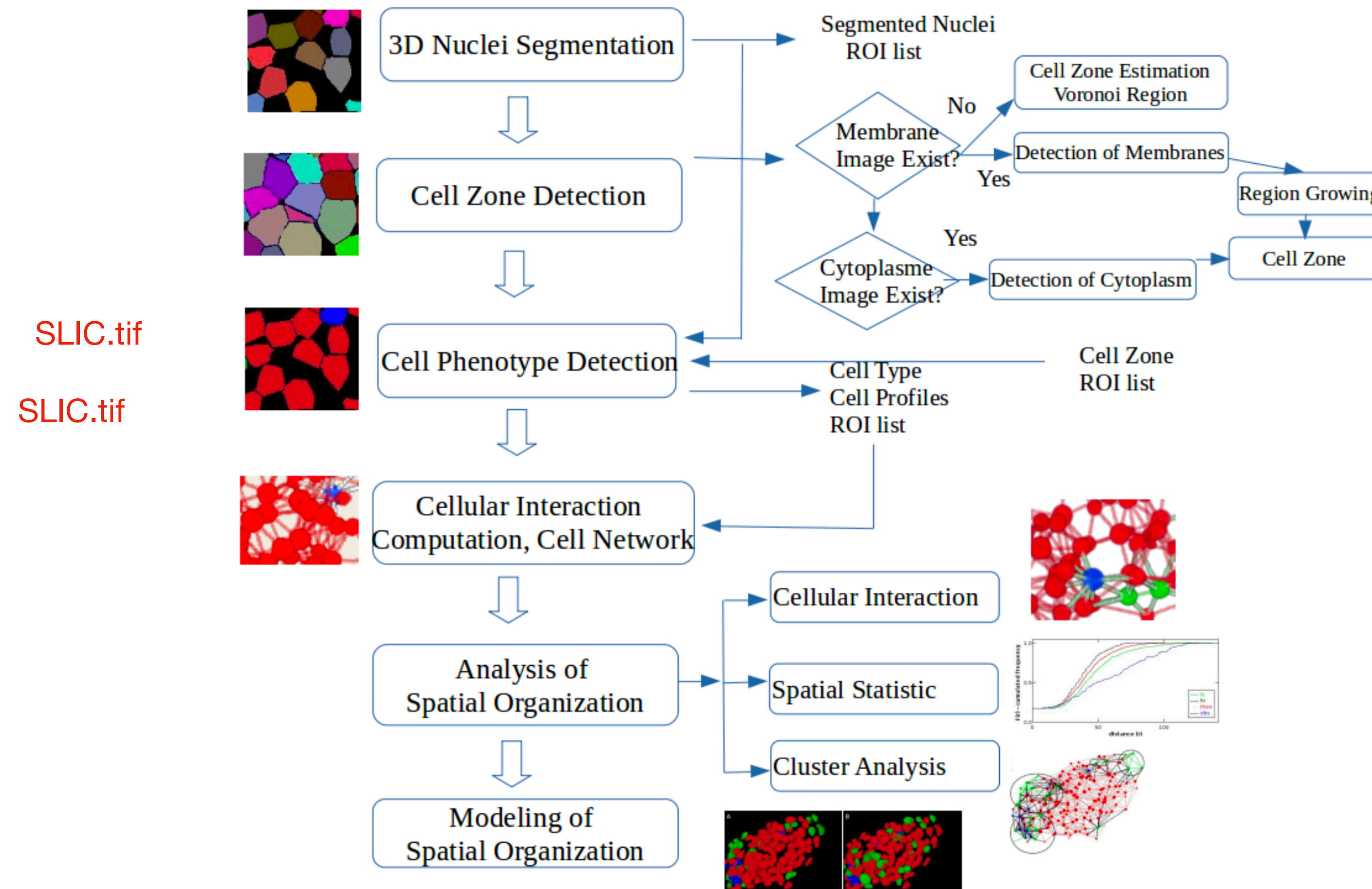


Figure : Workflow: (i) segmentation and cell phenotype detection (ii) spatial organization analysis

3D Cell Phenotype Computation

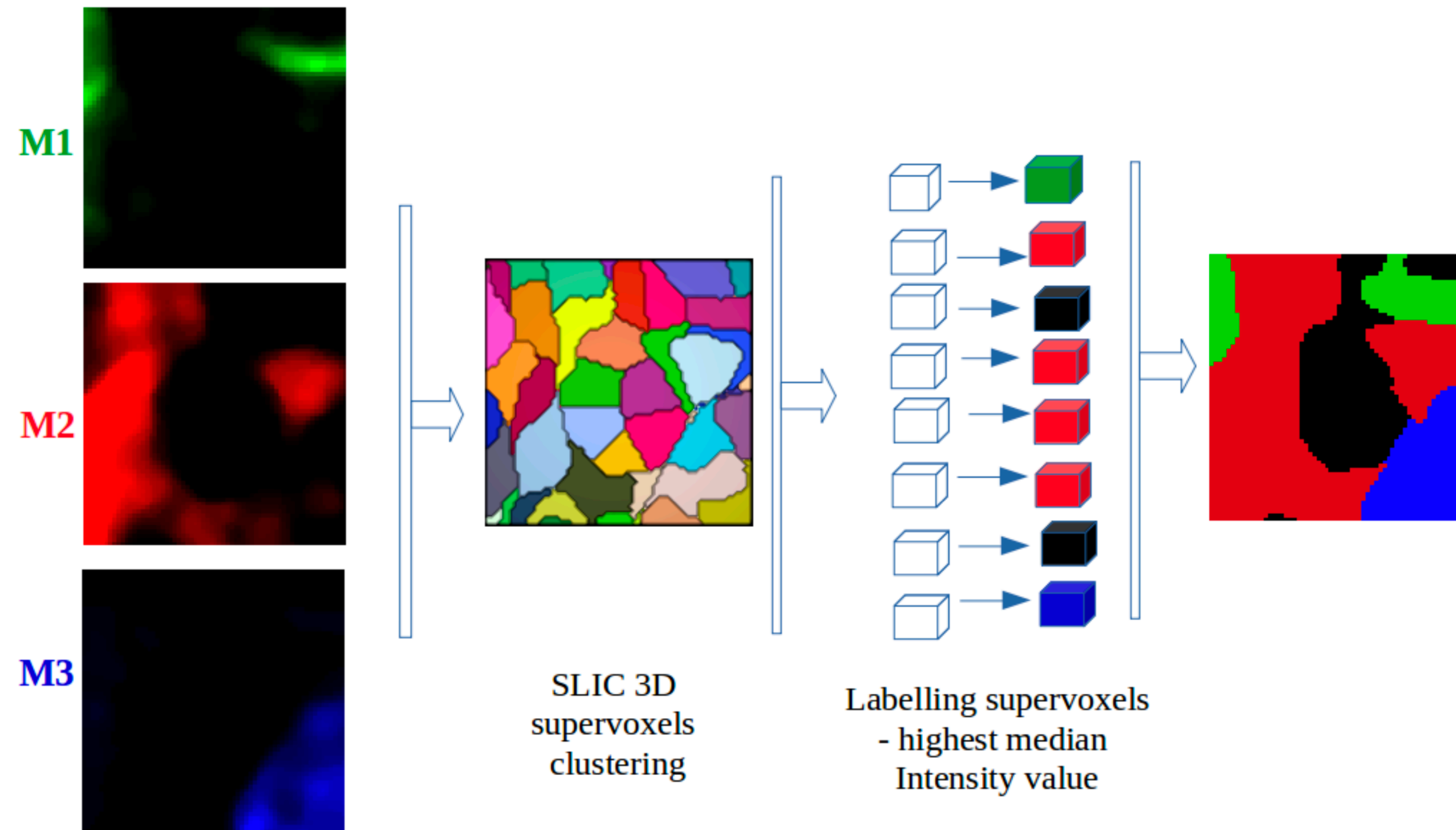


Figure : 3D SLIC Supervoxels - Simple Linear Iterative Clustering [1].

3D Cell Phenotype Computation

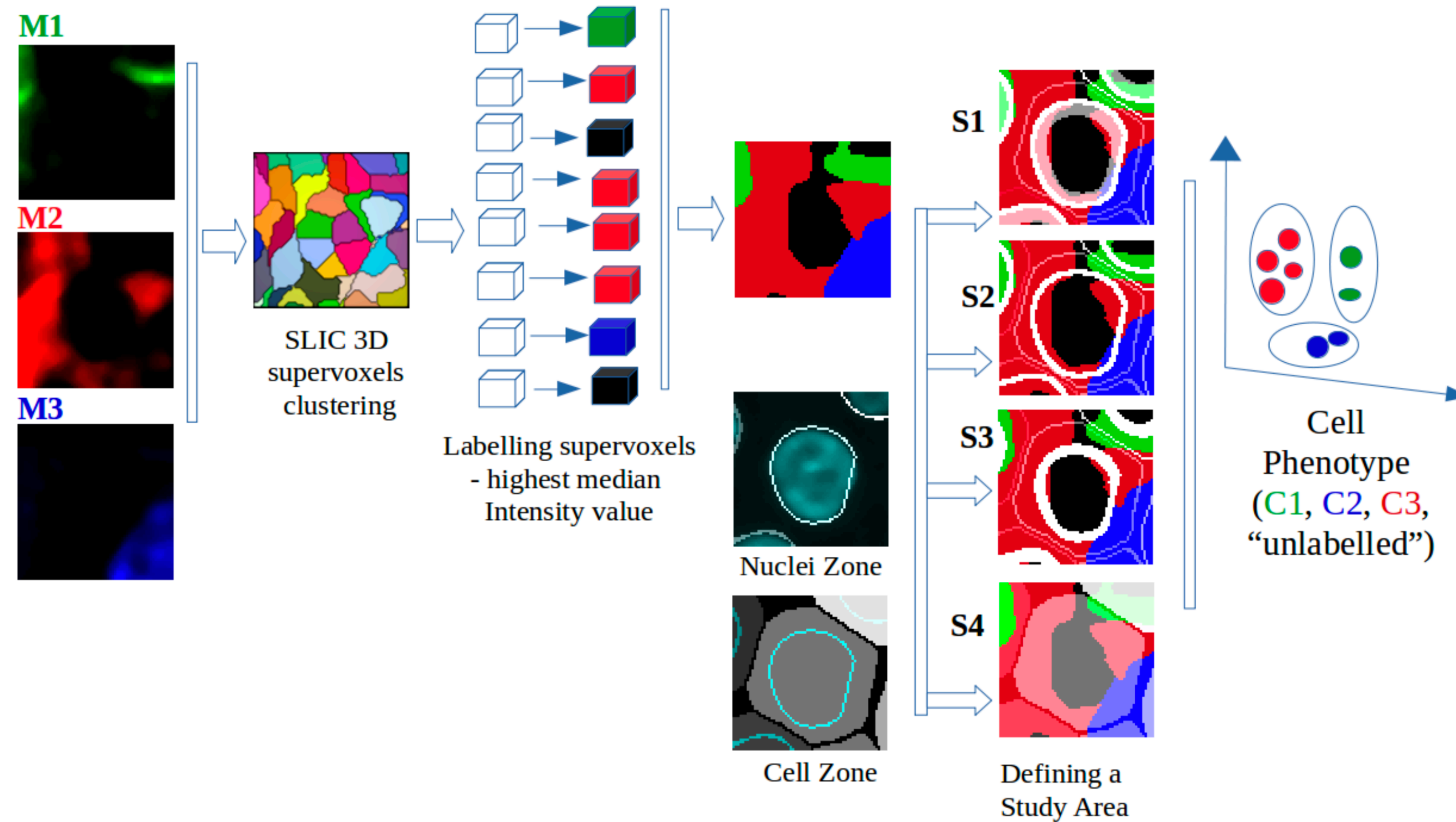


Figure : Workflow of cell phenotype computation using 3D Supervoxels - Simple Linear Iterative Clustering [1].

Acknowledgements

- [1] "A novel toolbox to investigate tissue spatial organization applied to the study of the islets of Langerhans" Hoa Tran et al.
- [2] J. Ollion, J. Cochenec, F. Loll, C. Escudé, T. Boudier. **(2013)** TANGO: A Generic Tool for High-throughput 3D Image Analysis for Studying Nuclear Organization. *Bioinformatics* 2013 Jul 15;29(14):1840-1.
- [3] Spatial3DTissueJ plugins would like to thank P. Andrey, J.-F. Gilles and the developers of the following plugins :
 - Imagescience
 - LocalThickness
 - ConvexHull3D
 - 3D Object Counter
 - Droplet Counter