Automated Process of Quantifying Scientific Images Using Fiji

Olivia Casimir¹, Madushika Wimalarathne², Dr. Love-Rutledge²,
Department of Computer Science¹ & Department of Chemistry²

Introduction
The process of quantitative analysis of immunohistochemical sections in biomedical research is an arduous process that often takes a long time. We sought to automate the analysis of histological sections using FIJI. FIJI is an open source image processing program for multidimensional image data with a focus on scientific imaging. FIJI was used to help automate calculations and collecting data for the images of rodent’s pancreases.

Methods
For “Methods”, first the original image was duplicated to avoid harming the original image. Next, the duplicated image was adjusted red on the RBG to find the stained particles on the Color Threshold. Then, the program analyzed the pixels/particles of the “new” image, which then allows the program the measure the pixels/particles for 1 pixel/nanometer. After, the program collected the results and summary of the “new” image, it displayed the listed measurements and the summary of the image.

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References
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