

WimNeuron – Neurite Outgrowth

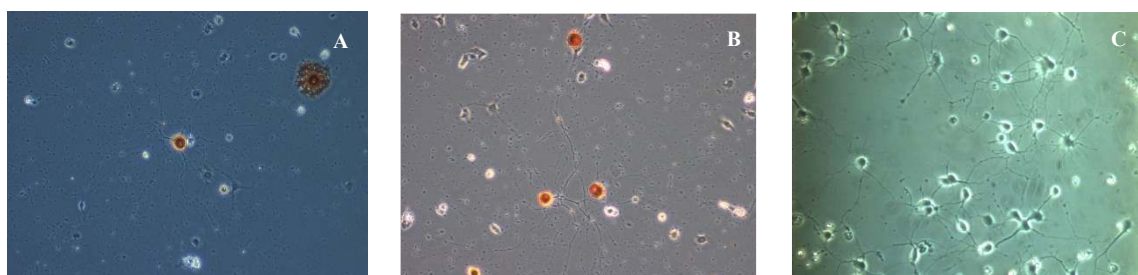


Image Analysis for Neurite Outgrowth

An adequate neurite outgrowth development process is a fundamental aspect for the correct functioning of the nervous system. The development of a complete neuronal network requires the proper formation and growth of neurites, path finding and synapse formation and maturation, which is absolutely indispensable for the essential functioning of the communication throughout the neuronal system. For that reason, the study of the neurite formation and development process and its possible regeneration paths is a key aspect in neuronal related studies, such as neurodegenerative and psychiatric diseases.

WimNeuron – Neurite outgrowth is specially designed to monitorize accurately the neurite outgrowth process and provide objective data from the neuron culture images. Thanks to Wimasis high-end algorithms, WimNeuron – Neurite outgrowth is able to process an extensive amount of images and provide reliable results in record time.

WimNeuron – Neurite outgrowth uses as input neuron culture images, generated using fluorescence, bright field or phase contrast microscopy techniques. Optionally, neurons can be stained with nuclear dyes (such as the DAPI or Hoechst), which will be helpful to provide extra parameters of the analysis.



Neurite outgrowth assay images. (A, B, C) Images of neurons in phase contrast microscopy.

WimNeuron – Neurite outgrowth tool provides the following output data per image analyzed:

- Number of neuronal networks, neurite segments and branching points.
- Area of circuitry length.
- Number of neurons, average neurite length per cell and area of neurons (only for nuclei stained samples).

Try WimNeuron – Neurite outgrowth tool for free at mywim.wimasis.com and experience for yourself the automated quantification of neurite outgrowth.

WimNeuron – Neurite outgrowth is engineered in a flexible way, so it permits unlimited possibilities to adapt the solution to your specific assay images. If your neurite outgrowth images do not fulfill the conditions cited above, send us a quick note or reach us at:

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