BioFrontiers Advanced Light Microscopy Core

Joe Dragavon
Director
Key Information

- JSCBB 3rd Floor
- BioFrontiers Institute
- 6 microscopes
- 1 Analysis workstation
- >30 peer reviewed publications in 4 years
Key Equipment

Widefield
• Nikon
• Olympus
• ImageXpress

Confocal
• Spinning Disk
• Laser Scanning Confocal

Super resolution
• Nikon NSTORM
  • with the DoubleHelix module

Analysis Workstation
• Elements
• Matlab
• GPU processing
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All capable of multi-day live cell imaging
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Super resolution
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Analysis Workstation
- Elements
- Matlab
- GPU processing
  - 20 nm XY resolution
  - 50 nm Z resolution
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This is a computer
Expertise at Every Step

Sample Preparation → Acquisition → Image Treatment → Image Analysis → Quantification → Result Validation

Data Storage → Signal Enhancement → Feature Extraction → Measures & Classification → Statistics & Interpretation

From Concept to Conclusion!
BioFrontiers
Advanced Light Microscopy Core

Our Team

Joe Dragavon
• Director
• Experimental Design
• Trainings
• Education
• Maintenance
• Consultations
• General Cleaning
• Invoicing
• Other stuff I’m sure...

Jian Wei Tay
• Image and Data Analysis
  • Matlab
  • Python
  • ImageJ/Fiji/ICY

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