

## Influx Fluorescent Activated Cell Sorting and Analyses FAQs

The Influx FACS in BPS 5115 is now ready for either analysis or sorting, and the biosafety hood is certified as safe for experiments requiring BSL2 plus safety. Sorting and analysis is by appointment at [facs@msu.edu](mailto:facs@msu.edu) or 353-9334 . The new Influx has the same capabilities as the original machine:

1. 488 laser: forward and side scatter, FITC or CSFE, PI, PerCp-Cy5.5, GFP, YFP. This includes small particle detection down to 0.2 um clearly separated from forward scatter noise.
2. 405 laser: Alexa Fluor 405, Pacific blue, Alexa fluor 430, Pacific Orange. Transcription Reporters: Cyan Fluor Protein
3. 552 laser: PE, Texas Red, PE-Cy5 or PE-Cy5.5, PE-Cy7. Transcription reporters: dsRed (RFP), mCherry, mTomato
4. UV laser: Hoechst 3342 blue/red stem cells, DAPI & Hoechst for cell cycle, Alexa Fluor 350, Indo 1 Ca<sup>+</sup> calcium flux
5. 640 laser: APC, Alexa Fluor 700, APC-Cy7

Cell analysis and sorting can be done with any combination of the above parameters. Sort collection can be into 1-6 tubes (or eppendorf tubes) and culture plates 6 well through 96 well. You can specify the number of cells collected. The temperature of sample tube and collection tube can be controlled. This is not the limit of the machines capabilities. Contact me for further details.