

## General Guidelines for Choosing a COPAS Instrument

Each COPAS™ instrument is designed to provide maximum speed, accuracy and throughput depending on application. Because the entire system (optics, fluidics, software, etc.) for each system is optimized for specific size objects or organisms at specific stages, you can not use one system and simply “swap out a flow cells” to cover the entire range of sizes. Please refer to the below table for a summary.

<u>Object</u>	<u>Size / Stage</u>	<u>BIOSORT</u>	<u>SELECT</u>	<u>PLUS</u>	<u>XL</u>
Recommended largest object:		125 microns	250 microns	500 microns	1,000 microns

### ***C. elegans***

Embryo → Adult	Recommended	Optional *
Synchronized Adults		Recommended

### ***Drosophila***

Embryo → 1st instar		Recommended		
1 <sup>st</sup> instar → 2nd instar			Recommended	
3rd instar				TBD

### ***Arabidopsis***

seeds			Recommended	
-------	--	--	-------------	--

### ***Zebrafish***

Embryo → larva (6 days)				Recommended
-------------------------	--	--	--	-------------

### ***Beads \*\****

40 → 300 microns		Recommended		
300 → 600 microns			Recommended	

\* Size resolution not as good as BIOSORT, Fluorescence OK. Speed is reduced by ½.

\*\* Bead sizes are “swollen” sizes in water (not dry). The system is NOT compatible with solvents; aqueous only.