**Checklist of material needed before starting.**

* zebrafish embryos/larvae expressing fluorescent proteins (Keep the embryos in the zebrafish E3 medium without methylene blue. For stages older than 24 hrs counteract the pigmentation by adding PTU to a final concentration of 0.2 mM.)
* fluorescent stereoscope
* capillaries (20 μl volume, with a black mark) and appropriate plungers (Do not reuse the capillaries. The plungers, on the other hand, can be reused for several experiments.)
* 1.5 ml plastic tubes
* sharp tweezers
* glass (fire polished) or plastic pipettes (plastic can be used for 24 hrs and older embryos)
* glass or plastic dishes diameter 60 mm (plastic can be used for 24 hrs and older embryos)
* two 100 ml beakers
* 50 ml Luer-Lock syringe with 150 cm extension hose for infusion (The hose and syringe should be kept completely dry in between experiments to avoid contamination by microorganisms)
* plasticine
* low melting point (LMP) agarose
* E3 medium (5 mM NaCl, 0.17 mM KCl, 0.33 mM CaCl2, 0.33 mM MgSO4)
* MS-222 (Tricaine)
* phenylthiourea (PTU)
* fluorescent microspheres (here referred to as beads)
* double distilled H2O (ddH2O)