## Vascular labelling with tomato lectin (or Vascular leakage with FITC-dextran)

## Perfusion

- 1. Anesthetize the mouse.
- 2. Inject 0.1 ml of 1 mg/ml lectin through a tail vein, taking 20-30s (faster will kill the mouse).
- 3. Wait 5 min.
- 4. Open chest, insert an 18-guage butterfly needle attached to the perfusion apparatus. Cannulate right atrium and perfuse as follows:
  - a. 4% paraformaldehyde in PBS, 120-140 mm Hg, 5 min.
  - b. Hold the needle in the heart steady with a forceps while maintaining the pressure. The liver should clear and the tail will often twitch when perfusion is adequate. The mouse becomes rigid after fixative is perfused through.

## **Dissection and dehydration**

- 5. Remove tissues of interest and fix in 4% paraformaldehyde overnight.
- 6. Dehydrate through increasing sucrose concentrations for 1-12 hours each, 12%, 15%, 18%, 25% in PBS (very flexible).
- 7. Mount tissues in OCT and freeze on dry ice. Store at -80C until cutting.
- 8. Cut thick sections (50 µm), and use a confocal microscope to visualize stained vessels.