

## **$\beta$ -galactosidase staining – whole mount embryonic and adult kidneys:**

- Wash kidneys in cold PBS
- Fix in 4% PFA containing 100mM HEPES and 100mM NaCl
- Wash in PBS containing 1% Triton-X (PBST) for 1h at room temperature
- Incubate in X-galactosidase stain (0.5mg/ml X-gal (Bethesda Research labs)), 400 $\mu$ M potassium ferrocyanide, 400 $\mu$ M potassium ferricyanide, and 2mM MgCl<sub>2</sub> at 37°C until staining is complete
- Wash in PBST
- Post fix in 4% PFA