Eisch and Stowe Lab Collaboration: Summary complied by Sarah Latchney 031215

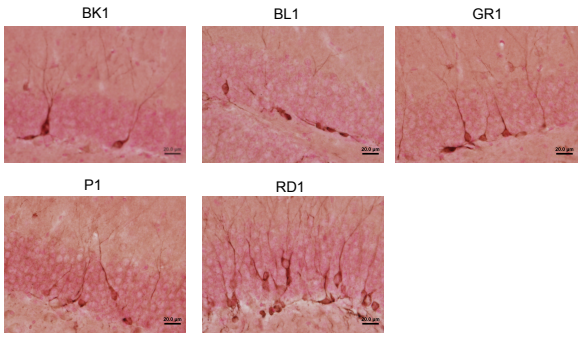
Goal: To test DCX immunohistochemistry on control animals for the stroke collaboration.

Control Animals Given:
BK1, BL1, GR1, P1, RD1

DCX IHC:
- Brains sectioned 30µm, 1:6 series on microtome, stored in 30% sucrose
- 2 sections from each brain was slide mounted prior to start of IHC
- Pretreatments: Citric acid antigen retrieval, H_2O_2, serum block
- 1º Antibody: Goat α DCX: 1:500 ON at RT
- 2º Antibody: Biotinylated Donkey α Goat IgG 1:200 1.5 h at RT
- DCX visualized with Pierce DAB
- Vector Fast Red counterstain, dehydration in graded EtOHs, defatted in Citrisolv, Coverslipped with DPX

Representative Images:
- Images taken with 40x objective lens
- RGB levels not edited with Photoshop (something I would do for publication quality images).

Result:
- IHC was successful for DCX.
- It is noticeable by eye that RD1 had more DCX+ cells than the other control animals. Although only 2 sections from each animal was stained, is it expected that RD1 may have more DCX+ cells?

Next:
- Would be ready for a full DCX run if I have information for all treatment groups, N's for each group, etc.

40x magnification under brightfield
Scale bar=20µm
Images unedited (RGB levels not adjusted with Photoshop)