

Endothelial

Astrocyte

Inhibitory

The diagram illustrates a network of inhibitory interactions between various genes. The nodes are color-coded and grouped into clusters, with red lines indicating inhibitory connections. The clusters and their members are:

- Yellow Cluster:** Prlr, Esr1, Ar, Scg2
- Green Cluster:** Glra3, Dgkk
- Purple Cluster:** Nnat, Ucn3, Gnrh1, Cartpt
- Pink Cluster:** Sln, Tac1, Tac2, Th, Crh, Penk, Nts, Vgf
- Blue Cluster:** Oxt, Trh, Adcyap1
- Cyan Cluster:** Gabra1, Gad1
- Red Cluster:** Mlc1, Aqp4, Cxcl14, Aldh1l1

Key inhibitory interactions (red lines) include:

- Ar inhibiting Prlr, Esr1, and Scg2.
- Scg2 inhibiting Nnat.
- Nnat inhibiting Ucn3, Gnrh1, and Oxt.
- Ucn3 inhibiting Gnrh1 and Oxt.
- Gnrh1 inhibiting Oxt.
- Oxt inhibiting Trh.
- Trh inhibiting Adcyap1.
- Adcyap1 inhibiting Trh.
- Sln inhibiting Tac1, Tac2, Th, Crh, Penk, and Nts.
- Tac1 inhibiting Tac2, Th, Crh, Penk, and Nts.
- Tac2 inhibiting Th, Crh, Penk, and Nts.
- Th inhibiting Crh, Penk, and Nts.
- Crh inhibiting Penk and Nts.
- Penk inhibiting Nts.
- Nts inhibiting Vgf.
- Vgf inhibiting Sln, Tac1, Tac2, Th, Crh, Penk, and Nts.
- Gabra1 inhibiting Gad1.
- Mlc1 inhibiting Aqp4, Cxcl14, and Aldh1l1.
- Aqp4 inhibiting Cxcl14 and Aldh1l1.
- Cxcl14 inhibiting Aldh1l1.
- Aldh1l1 inhibiting Aqp4 and Cxcl14.

Shared

Mature

Diagram illustrating gene expression clusters in the Mature stage. The clusters are color-coded and labeled with gene names:

- Blue/Purple Cluster:** Gnrh1, Ucn3, Nnat, Tac1, Scg2, Sst, Slk, Vgf, Cck, Oxt.
- Pink Cluster:** Crh, Gal, Adecyap1, Nts, Th, Tac2, Penk.
- Red Cluster:** Cxcl14, Aldh1l1, Gabra1, Gad1, Myh11, Pdgfra.
- Green Cluster:** Ermn, Ttyh2, Sox8, Gjc3, Mbp, Sgk1, Ndrgr1.

Excitatory

The diagram illustrates a network of excitatory genes, organized into several clusters. The clusters are color-coded and labeled as follows:

- Yellow Cluster (Top Left):** Includes *Synpr*, *Sox4*, *Onecut2*, *Arhgap36*, and *Cbln1*.
- Light Blue Cluster (Top Right):** Includes *Irs4*, *Prlr*, and *Npy2r*.
- Purple Cluster (Middle Left):** Includes *Sema4d* and *Tmem108*.
- Pink Cluster (Bottom Left):** Includes *Nts*, *Th*, *Crh*, *Tac2*, and *Gal*.
- Green Cluster (Bottom Center):** Includes *Vgf*, *Trh*, *Scg2*, *Sln*, *Gnrh1*, *Oxt*, *Tac1*, *Cck*, *Nnat*, and *Ucn3*.
- Red Cluster (Bottom Right):** Includes *Cxcl14*, *Aldh11l*, *Aqp4*, and *Mlc1*.
- Cyan Cluster (Bottom Right):** Includes *Gpr165*, *Glra3*, and *Cbln2*.

Interactions (edges) are shown between nodes within clusters and between clusters. Notable interactions include connections between the Yellow and Green clusters (e.g., *Cbln1* to *Vgf*), and between the Pink and Green clusters (e.g., *Crh* to *Sln*).

Ependymal