**Title:** Hypothetical Network for Drug A **Organism:** Rattus norvegicus Adcy1 Cyclic AMP Terf2ip Zhx2 Prkaca Adcy8 MAPK signaling pathway A<mark>M</mark>PAR GRIA1 (ong-term potentiation) Nisch Gria2 Map2k1 Gria3 Map2k2 Gria4 Ppa1 (Strong depolarization) D-Glutamate Acta1 **→**egulation of actin cytoskeleto N<mark>M</mark>DAR Grin1 Grin2a Krit1 Camk2b Grin2b Mapk3 Grin2c Mapk1 Grin2d m<mark>G</mark>luR Prkce Grm1 Grm5 **GnRH Signal pathway** Camk4 **Local Translation** euroactive ligand-recepto interaction Creb1 connexin connexin

egulation of gap junctio

Gap junction

Gonadotropins gene expression & secretion

Adcy1

Prkaca

Drd4

Drd1a

Drd2