GABAERGIC SYNAPSE Glial cell Citrate cycle (TCA cycle) Glul, GS, Glns Abat, 963003... **ි**ල \_**⊙**⊶ ಌ್ರಾ₄ Suc GlnGlu GABA Mitochondria Slc6a13, GAT.. Slc38a5, C81... Autoreceptor Gabbr2, GABA. Neuron (Postsynaptic cell) Gm15776, OTT Slc38a1, AA4... Internalization Neuron (Presynaptic terminal) Adcy4, mKIAA... Early endosome Inhibition of GABA Gln OGβy Gabra5, A230.. Endocytosis —— > Degradation release cAMP **Q** Hap1, HAP-Alanine, aspartate and glutamate metabolism Gls, 6330442... Recycling Cacna1a, APC... GABA O Trak2, 29000. Gabra5, A230 Gabra5, A230 Glu 🔿 ---**-**--Nsf, Al31687. Plcl1, C2300.. Gad1, EP10, ... GABA Vesicle Exocytosis Synaptic vesicle cycle Golgi . phn, 573055.. GABA Abat, 963003... Cĺ Endocytosis Mitochondria Hyperpolarization, decreased excitability Action potential cAMP Adcy4, mKIAA... 9 Slc6a1, A730.. GABA 04727 10/23/15 (c) Kanehisa Laboratories