GABAERGIC SYNAPSE Glial cell Citrate cycle (TCA cycle) —°**⊘**⁴**4 ිල**34 α-KG SucGlnGlu GABA Mitochondria GAT2/3 K13576... Autoreceptor Neuron (Postsynap tic cell) K14990... Internalization Neuron (Presynap tic terminal) Early endosome Inhibition of GABA Gln OGβy --  $\blacktriangleright$  Degradation release Endocytosis cAMP 👌 K04647 Alanine, aspartate and glutamate metabolism Recycling K01425 GABA O<sup>2</sup> K02677... K15374 Glu**O**----**-**--GABA Vesicle Exocytosis Synaptic vesicle cycle Golgi 0 GABA ₩ KCC2 Endocytosis Mitochondria Hyperpolarization, decreased excitability Action potential cAMP Ò GABA 04727 10/23/15 (c) Kanehisa Laboratories