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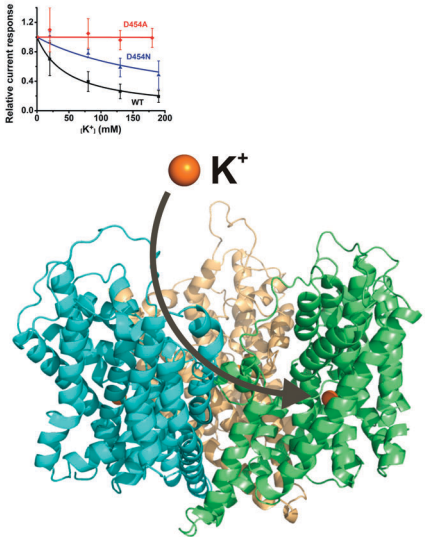

ON THE COVER

Top: Inhibition of glutamate-induced homoexchange current by extracellular potassium for WT EAAC1 and transporters with two mutations to the proposed K1 binding site, D454A and D454N. Bottom: Illustration of binding of extracellular potassium to the K1 site. The three identical subunits of the glutamate transporter trimer are colored in blue, green, and brown.