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Molecular mechanisms of excitatory neurotransmitter transport

Solute carriers constitute a large superfamily of integral membrane proteins that move essential solutes across membrane in all kingdoms all life. The solute carrier 1 family (SLC1) includes sodium-dependent transporters of acidic and neutral amino acids. In humans, SLC1 proteins are key regulators of extracellular glutamate in the central nervous system, and constitute important pharmaceutical targets in neurodegeneration and several forms of cancer.

During my talk, I will discuss structural and mechanistic aspects of the function and pharmacology of human and prokaryotic SLC1 homologs, with a focus on glutamate or excitatory neurotransmitter transport.

Tuesday 14 May 2019 at 4.00 P.M.

COFFEE AND TEA WILL BE SERVED AT 3.45 P.M. IN FRONT OF THE SOLVAY ROOM

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