

nAChR (pLGIC)'s have 20 potential lipid occupancy spots. In the outer leaflets PUFAs occupy the M4, saturated and chol occupy the inner subunits. In the inner leaflet charge plays a crucial role. Where anionic lipids will interact around the M1/M3 subunits (interaction with the chol/sat region), and PUFAs still occupy the M4.

Affinity for PUFA acyl chain. Where are they? Do they match our hypothesis?

- 1) Saturating Affinity table
- 2) Density sites

Does the inner leaflet follow suite? Does charge play a role? What is the stronger driver: PUFA or HG?

- 1) HG affinity table
- 2) Saturation - H G affinity table

Why PUFAs at the M4?

Why anionic in the inner membrane?

- 1) Saturation - H G affinity table
- 2) Simulation image showing T M D boundary anionic amino acids