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From hopanoids to cholesterol: molecular clocks of pentameric ligand-gated ion channels**Francisco J. Barrantes^{1*} and Jacques Fantini²**

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Running head: Lipid evolution and channel tuning

The abbreviations used are: nAChR, nicotinic acetylcholine receptor; ELIC, pentameric ligand-gated ion channel protein found in *Erwinia chrysanthemi*; GluCl, anion-selective glutamate-gated chloride channel from the planarian worm *Caenorhabditis elegans*; GLIC, pentameric ligand-gated ion channel from the cyanobacterium *Gloeobacter violaceus*; pLGIC, pentameric ligand-gated ion channels.

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