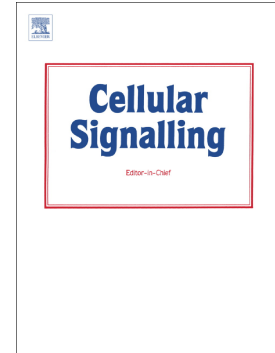


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**The allosteric site regulates the voltage sensitivity of muscarinic receptors**

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Abbreviations:

4-(4-Butyl-1-piperidinyl)-1-(2-methylphenyl)-1-butanone hydrochloride (AC-42), acetylcholine (ACh), allosteric modulator (AM), Benzyl quinolone carboxylic acid (BQCA), extracellular loop (ECL), Förster resonance energy transfer (FRET), Function – voltage curve (F-V curve), G protein-coupled receptor (GPCR), membrane potential ( $V_M$ ), molecular dynamics (MD), muscarinic  $M_1$ -receptor ( $M_1$ -R), muscarinic  $M_3$  receptor ( $M_3$ -R), positive allosteric modulator (PAM), negative allosteric modulator (NAM), transmembrane helical domain (TM).

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