

JGPP

The Journal of General Physiology
Vol 131 • No 2 • February 2008

General Physiology is the study of biological mechanisms through analytical investigations, which decipher the molecular and cellular mechanisms underlying biological function at all levels of organization.

The mission of the *Journal of General Physiology* is to publish articles that elucidate important biological, chemical, or physical mechanisms of broad physiological significance.

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- 99 The 61st Symposium of the Society of General Physiologists: *membrane biophysics of fusion, fission, and rafts in health and disease* (organized by Frederic Cohen and Joshua Zimmerberg). J. Kevin Foskett
- 103 Paul F. Cranefield award to Frank T. Horrigan.

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- 137 Modular design of Cys-loop ligand-gated ion channels: functional 5-HT₃ and GABA ρ1 receptors lacking the large cytoplasmic M3M4 loop. Michaela Jansen, Moez Bali, and Myles H. Akabas
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Cover picture: Electrostatic potential landscape of the BK pore and neutralization mutants. Pseudocolors correspond to the electrostatic potential obtained by solving the Poisson-Boltzmann equation (red, negative; blue, positive). Top figure corresponds to the wild-type BK, middle figure is the neutralization mutant E386N/E389N, and the bottom figure corresponds to the D326N/E329Q (see article by Carvacho et al., 147–161).