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Patrick A. Fletcher, Arthur Sherman, Stanko S. Stojilkovic

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Common and diverse elements of ion channels and receptors underlying electrical activity in endocrine pituitary cells

Patrick A. Fletcher[1], Arthur Sherman[1], Stanko S. Stojilkovic[2]

[1] Laboratory of Biological Modeling, National Institute of Diabetes, Digestive and Kidney Diseases, NIH, Bethesda, MD, USA.

[2] Section on Cellular Signaling, *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, NIH, Bethesda, MD, USA.

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Corresponding author and person to whom the reprint requests should be addressed:
Patrick A. Fletcher, LBM, NIDDK, NIH, Bethesda, MD, USA, 20892, Email: patrick.fletcher@nih.gov

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Abbreviations: AP, action potential; BK, large-conductance Ca^{2+} and voltage-activated K^+; $[Ca^{2+}]_i$, intracellular calcium concentration; CRHR, corticotropin-releasing hormone receptor; D2DR, D2 dopamine receptor; g, conductance; GHRHR, GH-releasing hormone receptor; GnRHR, gonadotropin-releasing hormone receptor; GPCR, G protein-coupled receptors; HVA, high voltage-activated; HCN, hyperpolarization-activated and cyclic-nucleotide modulated; I, current; IK, intermediate conductance calcium-activated potassium; IP_3, inositol trisphosphate; K_{Ca}, calcium-activated potassium; K_{dr}, delayed rectifier potassium; K_{ir}, inwardly rectifying potassium; K_V, voltage-gated potassium; Na_b, background inward current carried by sodium; Na_V, voltage-gated sodium; PKA, cAMP-dependent protein kinase; POMC, pro-opiomelanocortin; SERCA, sarcoplasmic/endoplasmic reticulum Ca^{2+}-ATPase; SK, small conductance calcium-activated potassium; SSTR, somatostatin receptor; TRHR, thyrotropin-releasing hormone receptor; VGCI, voltage-gated calcium influx.