

Henry M. Colecraft, Ph.D.: “Engineering ion channel regulation: from mechanisms to translation”

Henry M. Colecraft, Ph.D. is the John C. Dalton Professor and Associate Vice Chair in the Department of Physiology and Cellular Biophysics at Columbia University Irving Medical Center. The Colecraft laboratory focuses on the molecular physiology of ion channel proteins that underlie signaling in nerve cells and the heart. His research group has contributed seminal advances to understanding molecular mechanisms underlying regulation of voltage-dependent Ca^{2+} and K^{+} channels by accessory subunits, posttranslational modifications, and signaling molecules. His group also studies how inherited mutations in ion channels lead to devastating diseases that span the cardiovascular, neurological, and respiratory systems, and seeking new therapies for them.

