

RESEARCH NEWS

e202012574 **How stomatin stops ASIC3 gating**
Ben Short

REVIEW

e201811998 **Structural mechanisms of transient receptor potential ion channels**
Erhu Cao

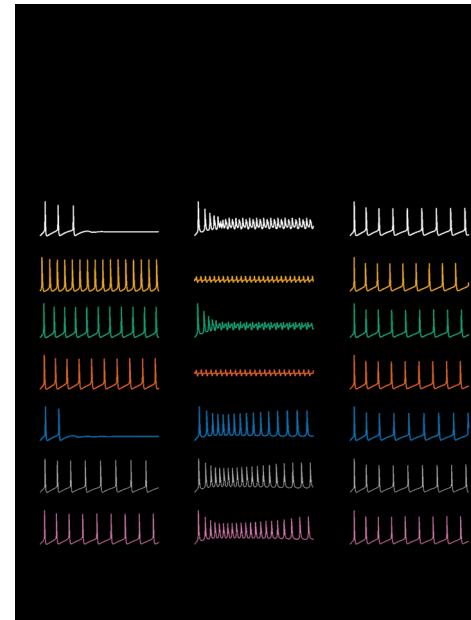
RESEARCH ARTICLES

e201912471 **Insights into the molecular mechanisms underlying the inhibition of acid-sensing ion channel 3 gating by stomatin**
Robert C. Klipp, Megan M. Cullinan, and John R. Bankston

e201912442 **Alternative splicing potentiates dysfunction of early-onset epileptic encephalopathy *SCN2A* variants**
Christopher H. Thompson, Roy Ben-Shalom, Kevin J. Bender, and Alfred L. George Jr.

COMMUNICATION

e201912520 **Membrane conductances of mouse cone photoreceptors**
Norianne T. Ingram, Alapakkam P. Sampath, and Gordon L. Fain



ON THE COVER

Simulated pyramidal neuron action potential firing performed for two developmental stages featuring wild-type or epilepsy-associated Nav1.2 variants expressed at different ratios of neonatal and adult Nav1.2 splice isoforms. Variants associated with early-onset epileptic encephalopathy exhibit greater dysfunction in the neonatal splice isoform, and confer neuronal hyperexcitability in immature neurons where neonatal Nav1.2 is the predominant splice isoform.

Image © Thompson et al., 2020. See <http://doi.org/10.1085/jgp.201912442>