

SUGGESTED ADDITIONAL READINGS FROM JEFF NOEBELS

Gene Control of Network Excitability

Toledo-Rodriguez M, El Manira A, Wallén, P, Svirskis G, Hounsgaard J. (2005) Cellular signalling properties in microcircuits. *Trends Neurosci*, 28: 534-540

Toledo-Rodriguez M, Blumenfeld B, Wu C, Luo J, Attali B, Goodman P, Markram H. (2004) Correlation maps allow neuronal electrical properties to be predicted from single-cell gene expression profiles in rat neocortex. *Cereb Cortex*, 14:1310-1327.

George AL Jr. (2005) Inherited disorders of voltage-gated sodium channels. *J Clin Invest*, 115:1990-1999.

Gene Control of Cortical Network Development

Gaitanis JN, Walsh CA. (2004) Genetics of disorders of cortical development. *Neuroimaging Clin N Am*, 14:219-229.

Recent Gene Models

Cobos I, Calcagnotto ME, Vilaythong A, Thwin MT, Noebels JL, Baraban SC, Rubenstein JLR. (2005) Mice lacking *Dlx1* show subtype-specific loss of interneurons, reduced inhibition and epilepsy. *Nat Neurosci*, 8:1059-1068.

Brenner R, Chen QH, Vilaythong A, Toney GM, Noebels JL, Aldrich RW (2005) BK channel $\beta 4$ subunit reduces dentate gyrus excitability and protects against temporal lobe seizures. *Nat Neurosci*, 8:1752-1759.

Yu FH, Mantegazza M, Westenbroek RE, Robbins CA, Kalume F, Burton KA, Spain WJ, McKnight GS, Scheuer T, Catterall WA (2006) Reduced sodium current in GABAergic interneurons in a mouse model of severe myoclonic epilepsy in infancy. *Nat Neurosci*, 9:1142-1149.

Klaassen A, Glykys J, Maguire J, Labarca C, Mody I, Boulter J. (2006) Seizures and enhanced cortical GABAergic inhibition in two mouse models of human autosomal dominant nocturnal frontal lobe epilepsy. *Proc Natl Acad Sci U S A*, 103:19152-19157

Wang D, Pascual JM, Yang H, Engelstad K, Mao X, Cheng J, Yoo J, Noebels JL, De Vivo DC. (2006) A mouse model for Glut-1 haploinsufficiency. *Hum Mol Genet*, 15:1169-1179.