Publications Supported by the Multiphoton Imaging Core

2007

Ellis-Davies GCR., Matsuzaki M, Paukert M, Kasai H, Bergles DE. 2007. 4-carboxymethoxy-5,7-dinitroindolinyl-glu: an improved caged glutamate for expeditious ultraviolet and two-photon photolysis in brain slices. *J Neurosci* 27:6601-6604.

Lin, D.T., Huganir, R.L. 2007. PICK1 and phosphorylation of the glutamate receptor 2 (GluR2) AMPA receptor subunit regulates GluR2 recycling after NMDA receptor-inducted internatlization. *J Neurosci* 27:13903-8.

Regan MR, Huang YH, Kim YS, Dykes-Hoberg MI, Jin L, Watkins AM, Bergles DE, Rothstein JD. 2007. Variations in promoter activity reveal a differential expression and physiology of glutamate transporters by glia in the developing and mature CNS. *J Neurosci* 27:6607-19.

Tritsch NX, Yi E, Gale JE, Glowatzki E, Bergles DE. 2007. The origin of spontaneous activity in the developing auditory system.  *Nature* 50:50-5.

Ziskin JL, Nishiyama A, Rubio M, Fukaya M, Bergles DE. 2007. Vesicular release of glutamate from unmyelinated axons in white matter.  *Nat Neurosci* 10:321-30. PMCID:PMC2140234.

2008

Faulkner RL, Jang MH, Liu XB, Duran X, Sailor KA, Kim JY, Ge S, Jones EG, Ming GL, Song H, Cheng HJ. 2008. Development of hippocampal mossy fiber synaptic outputs by new neurons in the adult brain. *Proc Natl Acad Sci USA* 105:14157-62. PMCID:PMC2544594.

Heine M, Groc L, Frischknecht R, Beique JC, Lounis B, Rumbaugh G, Huganir RL, Cognet L, Choquet D. 2008.  Surface mobility of postsynaptic AMPARs tunes synaptic transmission.  *Science* 320:201-205. PMCID:PMC2715948.

Park S, Park JM, Kim S, Kim JA, Shepherd JD, Smith-Hicks CL, Chowdhury S, Kaufmann W, Kuhl D, Ryazanov AG, Huganir RL, Linden DJ, Worley PF. 2008. Elongation factor 2 and fragile X mental retardation protein control the dynamic translation of Arc/Arg3.1 essential for mGluR-LTD.  *Neuron* 59:70-83. PMCID:PMC2743934.

Thomas GM, Lin DT, Nuriya M, Huganir RL. 2008. Rapid and bi-directional regulation of AMPA receptor phosphorylation and trafficking by JNK. *EMBO J* 27:361-72. PMCID:PMC2196436.

Zhu X, Bergles DE, Nishiyama A. 2008. NG2 cells generate both oligodendrocytes and gray matter astrocytes.  *Development* 135:145-157.

2009

Do MTH, Kang SH, Xue T, Zhong H, Liao H-W, Bergles DE, Yau K-W. 2009. Photon capture and signaling by melanopsin retinal ganglion cells. *Nature* 457:281-7. PMCID:PMC2794210.

Jiang J, Parameshwaran K, Seibenhener ML, Kang M-G, Suppiramaniam V, Huganir RL, Diaz-Meco MT, Wooten MW. 2009. AMPA receptor trafficking and synaptic plasticity require SQSTMI/p62. *Hippocampus* 19:392-406. PMCID:PMC2745981.

Lin DT, Makino Y, Sharma K, Hayashi T, Neve R, Takamiya K, Huganir RL. 2009. Regulation of AMPA receptor extrasynaptic insertion by 4.1N, phosphorylation and palmitoylation.  *Nat Neurosci* 12:879-87. PMCID:PMC2712131.

Luo W, Enomoto H, Rice FL, Milbrandt J, Ginty DD. 2009. Molecular identification of rapidly adapting mechanoreceptors and their developmental dependence on Ret signaling.  *Neuron* 64:841-856. PMCID:PMC2813518.

Ma DK, Jang MH, Guo JU, Kitabatake Y, Change ML, Pow-Anpongkul N, Flavell RA, Lu B, Ming GL, Song H. 2009. Neuronal activity-induced Gadd45b promotes epigenetic DNA demethylation and adult neurogenesis.  *Science* 323:1074-7. PMCID:PMC2726986 .

Tran TS, Rubio ME, Clem RL, Johnson D, Case L, Tessier-Lavigne M, Huganir RL, Ginty DD, Kolodkin AL. 2009. Secreted semaphorins control spine distribution and morphogenesis in the postnatal CNS.  *Nature* 462:1065-9. PMCID:PMC2842559.

Yang Y, Gozen O, Walkins A, Lorenzini I, Lepore A, Gao Y, Vidensky S, Brennan J, Poulson D, Won Park J, Li Jeon N, Robinson MB, Rothstein JD. 2009.  Presynaptic regulation of astroglial excitatory neurotransmitter transporter GLTI.  *Neuron* 61:880-94. PMCID:PMC2743171.

Zhong H, Sia GM, Sato TR, Gray NW, Mao T, Khuchua Z, Huganir RL, Svoboda K. 2009. Subcellular dynamics of type II PKA in neurons. *Neuron* 62:363-74. PMCID:PMC2702487.

2010

[De Biase LM](http://www.ncbi.nlm.nih.gov/pubmed?term=%22De%20Biase%20LM%22%5BAuthor%5D), [Kang SH](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Kang%20SH%22%5BAuthor%5D), [Baxi EG](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Baxi%20EG%22%5BAuthor%5D), [Fukaya M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Fukaya%20M%22%5BAuthor%5D), [Pucak ML](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Pucak%20ML%22%5BAuthor%5D), [Mishina M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Mishina%20M%22%5BAuthor%5D), [Calabresi PA](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Calabresi%20PA%22%5BAuthor%5D), [Bergles DE](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Bergles%20DE%22%5BAuthor%5D). 2010. NMDA receptor signaling in oligodendrocyte progenitors is not required for oligodendrogenesis and myelination. *J Neurosci* 31:12650-62. PMCID:PMC3179911.

De Biase LM, Nishiyama A, Bergles DE. 2010. Excitability and synaptic communication within the oligodendrocyte lineage. *J Neurosci* 30:3600-3611. PMCID:PMC2838193.

Kang SH, Fukaya M, Yang JK, Rothstein JD, Bergles DE. 2010. NG2+ CNS glial progenitors remain committed to the oligodendrocyte lineage in postnatal life and following neurodegeneration. *Neuron* 68:668-81. PMCID:PMC2989827.

Tritsch NX, Bergles DE. 2010. Developmental regulation of spontaneous activity in the mammalian cochlea.  *J Neurosci* 30:1539-50. PMCID:PMC2814371.

2011

Boersma MC, Dresselhaus EC, De Biase LM, Mihalas AB, Bergles DE, Meffert MK. 2011. [A requirement for nuclear factor-kappaB in developmental and plasticity-associated synaptogenesis](http://www.ncbi.nlm.nih.gov/pubmed/21471377). *J Neurosci* 31:5414-25. PMCID:PMC3113725.

Chang MC, Park JM, Pelkey KA, Grabenstatter HL, Xu D, Linden DJ, Sutula TP, McBain CJ, Worley PF. 2011. Narp regulates homeostatic scaling of excitatory synapses on parvalbumin-expressing interneurons. *Nat Neurosci* 13:1090-7. PMCID:PMC2949072.

Gao Y, Perkins EM, Clarkson YL, Tobia S, Lyndon AR, Jackson M, Rothstein JD. 2011. Β-III spectrin is critical for development of purkinje cell dendritic tree and spine morphogenesis. *J Neurosci* 31:16581-90. PMCID:PMC3374928.

Lanson, N.A., Jr, Maltare, A., King, H., Smith, R., Kim, J.H., Taylor, J.P., Lloyd, T.E., Pandey, U.B. 2011. A Drosophila model of FUS-related neurodegeneration reveals genetic interaction between FUS and TDP-43. *Hum Mol Genet* 20:2510-23.

Li L, Rutlin M, Abraira VE, Cassidy C, Kus L, Gong S, Jankowski MP, Luo W, Heintz N, Koerber HR, Woodbury CJ, Ginty DD. 2011. The functional organization of cutaneous low-threshold mechanosensory neurons. *Cell* 147:1615-27. PMCID:PMC3262167.

Makuch L, Volk L, Anggono V, Johnson RC, Yu Y, Duning K, Kremerskothen J, Xia J, Takamiya K, Huganir RL. 2011. [Regulation of AMPA receptor function by the human memory-associated gene KIBRA.](http://www.ncbi.nlm.nih.gov/pubmed/21943600) *Neuron* 71:1022-9. PMCID:PMC3200575.

Nguyen JF, Soto I, Kim KY, Bushong EA, Oglesby E, Valiente-Soriana FJ, Yang Z, Davis CH, Bedont JL, Son JL, Wei JO, Buchman VL, Zack DJ, Sidal-Sanz M, Ellisman MH, Marsh-Armstrong N. 2011. Myelination transition zone astrocytes are constitutively phagocytic and have synuclein dependent reactivity in glaucoma. *Proc Natl Acad Sci USA* 108:1176-81. PMCID:PMC3024691.

Sabharwal P, Lee C, Park S, Rao M, Sockanathan S. 2011. GDE2 Regulates Subtype-Specific Motor Neuron Generation through Inhibition of Notch Signaling. *Neuron* 71:1058-70. PMCID:PMC3183458.

Wu J, Petralia RS, Kurushima H, Patel H, Jung MY, Volk L, Chowdhury S, Shepherd JD, Dehoff M, Li YM, Kuhl D, Huganir RL, Price DL, Scannevin R, Troncoso JC, Wong PC, Worley PF. 2011. Arc/Arg3.1 regulates an endosomal pathway essential for activity-dependent β-amyloid generation. *Cell* 147:615-628. PMCID:PMC3207263.

[Wu Z](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Wu%20Z%22%5BAuthor%5D), [Sweeney LB](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Sweeney%20LB%22%5BAuthor%5D), [Ayoob JC](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ayoob%20JC%22%5BAuthor%5D), [Chak K](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Chak%20K%22%5BAuthor%5D), [Andreone BJ](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Andreone%20BJ%22%5BAuthor%5D), [Ohyama T](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ohyama%20T%22%5BAuthor%5D), [Kerr R](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Kerr%20R%22%5BAuthor%5D), [Luo L](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Luo%20L%22%5BAuthor%5D), [Zlatic M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zlatic%20M%22%5BAuthor%5D), [Kolodkin AL](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Kolodkin%20AL%22%5BAuthor%5D). 2011. A combinatorial semaphorin code instructs the initial steps of sensory circuit assembly in the Drosophila CNS. *Neuron* 70:281-98. PMCID:PMC3095019.

[Zou J](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zou%20J%22%5BAuthor%5D), [Zhou L](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zhou%20L%22%5BAuthor%5D), [Du XX](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Du%20XX%22%5BAuthor%5D), [Ji Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ji%20Y%22%5BAuthor%5D), [Xu J](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Xu%20J%22%5BAuthor%5D), [Tian J](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Tian%20J%22%5BAuthor%5D), [Jiang W](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Jiang%20W%22%5BAuthor%5D), [Zou Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zou%20Y%22%5BAuthor%5D), [Yu S](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Yu%20S%22%5BAuthor%5D), [Gan L](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Gan%20L%22%5BAuthor%5D), [Luo M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Luo%20M%22%5BAuthor%5D), [Yang Q](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Yang%20Q%22%5BAuthor%5D), [Cui Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Cui%20Y%22%5BAuthor%5D), [Yang W](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Yang%20W%22%5BAuthor%5D), [Xia X](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Xia%20X%22%5BAuthor%5D), [Chen M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Chen%20M%22%5BAuthor%5D), [Zhao X](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zhao%20X%22%5BAuthor%5D), [Shen Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Shen%20Y%22%5BAuthor%5D), [Chen PY](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Chen%20PY%22%5BAuthor%5D), [Worley PF](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Worley%20PF%22%5BAuthor%5D), [Xiao B](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Xiao%20B%22%5BAuthor%5D). 2011. Rheb1 is required for mTORC1 and myelination in postnatal brain development. *Dev Cell* 20:97-108. PMCID:PMC3056331.

2012

Cho JY, Chak K, Andreone BJ, Wooley JR, Kolodkin AK. 2012.  The extracellular matrix proteoglycan perlican facilitates transmembrane semaphorin-mediated repulsive guidance. *Genes and Development* 26:2222-35. PMCID:PMC3465742.

[Hu JH](http://www.ncbi.nlm.nih.gov/pubmed?term=Hu%20JH%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Yang L](http://www.ncbi.nlm.nih.gov/pubmed?term=Yang%20L%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Kammermeier PJ](http://www.ncbi.nlm.nih.gov/pubmed?term=Kammermeier%20PJ%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Moore CG](http://www.ncbi.nlm.nih.gov/pubmed?term=Moore%20CG%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Brakeman PR](http://www.ncbi.nlm.nih.gov/pubmed?term=Brakeman%20PR%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Tu J](http://www.ncbi.nlm.nih.gov/pubmed?term=Tu%20J%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Yu S](http://www.ncbi.nlm.nih.gov/pubmed?term=Yu%20S%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Petralia RS](http://www.ncbi.nlm.nih.gov/pubmed?term=Petralia%20RS%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Li Z](http://www.ncbi.nlm.nih.gov/pubmed?term=Li%20Z%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Zhang PW](http://www.ncbi.nlm.nih.gov/pubmed?term=Zhang%20PW%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Park JM](http://www.ncbi.nlm.nih.gov/pubmed?term=Park%20JM%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [DONG X](http://www.ncbi.nlm.nih.gov/pubmed?term=Dong%20X%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Xiao B](http://www.ncbi.nlm.nih.gov/pubmed?term=Xiao%20B%5BAuthor%5D&cauthor=true&cauthor_uid=22561452), [Worley PF](http://www.ncbi.nlm.nih.gov/pubmed?term=Worley%20PF%5BAuthor%5D&cauthor=true&cauthor_uid=22561452). 2012. Preso1 dynamically regulates group I metabotropic glutamate receptors. *Nat Neurosci* 15:836-44. PMCID:PMC3434267.

[Lee Y](http://www.ncbi.nlm.nih.gov/pubmed?term=Lee%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Morrison BM](http://www.ncbi.nlm.nih.gov/pubmed?term=Morrison%20BM%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Li Y](http://www.ncbi.nlm.nih.gov/pubmed?term=Li%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Lengacher S](http://www.ncbi.nlm.nih.gov/pubmed?term=Lengacher%20S%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Farah MH](http://www.ncbi.nlm.nih.gov/pubmed?term=Farah%20MH%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Hoffman PN](http://www.ncbi.nlm.nih.gov/pubmed?term=Hoffman%20PN%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Liu Y](http://www.ncbi.nlm.nih.gov/pubmed?term=Liu%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Tsingalia A](http://www.ncbi.nlm.nih.gov/pubmed?term=Tsingalia%20A%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Jin L](http://www.ncbi.nlm.nih.gov/pubmed?term=Jin%20L%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Zhang PW](http://www.ncbi.nlm.nih.gov/pubmed?term=Zhang%20PW%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Pellerin L](http://www.ncbi.nlm.nih.gov/pubmed?term=Pellerin%20L%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Magistretti PJ](http://www.ncbi.nlm.nih.gov/pubmed?term=Magistretti%20PJ%5BAuthor%5D&cauthor=true&cauthor_uid=22801498), [Rothstein JD](http://www.ncbi.nlm.nih.gov/pubmed?term=Rothstein%20JD%5BAuthor%5D&cauthor=true&cauthor_uid=22801498). 2012. Oligodendroglia metabolically support axons and contribute to neurodegeneration. *Nature* 487:443-8. PMCID:PMC3408792.

[Liu Q, Liu S, Kodama L, Driscoll MR, Wu MN. 2012. Two dopaminergic neurons signal to the dorsal fan-shaped body to promote wakefulness in Drosophila.](http://www.ncbi.nlm.nih.gov/pubmed/23022067) *Curr Biol* 22:2114-23. PMCID:PMC3505250.

Liu Y, Rutlin M, Huang S, Barrick CA, Wang F, Jones KR, Tessarollo L, Ginty DD. 2012. [Sexually dimorphic BDNF signaling directs sensory innervation of the mammary gland.](http://www.ncbi.nlm.nih.gov/pubmed/23224557) *Science* 338:1357-60. PMCID:PMC3826154.

Lloyd TE, Machamer J, O’Hara K, Kim JH, Collins SE, Wong MY, Sahin B, Imlach W, Yang Y, Levitan ES, McCabe BD, Kolodkin AL. 2012. The p150(Glued) CAP-Gly domain regulates initiation of retrograde transport at synaptic termini. *Neuron* 74:344-60. PMCID:PMC3353876.

Paukert M, Bergles DE. 2012. Reduction of motion artifacts during in vivo two-photon imaging of brain through heartbeat triggered scanning. *J Physiol* 590:2955-63. PMCID:PMC3406383.

Riccomagno M, Hurtado A, Wang H-B, Macopson JGJ, Griner EM, Betz A, Brose N, Kazanietz MG, Kolodkin AL. 2012. The RacGAP b-Chimaerin selectively mediates stereotyped hippocampal axon pruning. *Cell* 149:1594–606. PMCID:PMC3395473.

2013

Anggono V, Koc-Schmitz Y, Widagdo J, Kormann J, Quan A, Chen C-M, Robinson P, Choi S-Y, Linden D, Plomann M, Huganir RL. 2013. PICK1 interacts with PACSIN to regulate AMPA receptor internalization and cerebellar long-term depression. *Proc Natl Acad Sci USA* 110: 13976-81. PMCID:PMC3752261.

Chak K, Kolodkin AL. 2013. Function of the Drosophila receptor guanylyl cyclase Gyc76C in PlexA-mediated motor axon guidance. *Development* 41:136-47. PMCID:PMC3865755.

[Ehmsen JT](http://www.ncbi.nlm.nih.gov/pubmed?term=Ehmsen%20JT%5BAuthor%5D&cauthor=true&cauthor_uid=23884950), [Ma TM](http://www.ncbi.nlm.nih.gov/pubmed?term=Ma%20TM%5BAuthor%5D&cauthor=true&cauthor_uid=23884950), [Sason H](http://www.ncbi.nlm.nih.gov/pubmed?term=Sason%20H%5BAuthor%5D&cauthor=true&cauthor_uid=23884950), [Rosenberg D](http://www.ncbi.nlm.nih.gov/pubmed?term=Rosenberg%20D%5BAuthor%5D&cauthor=true&cauthor_uid=23884950), [Ogo T](http://www.ncbi.nlm.nih.gov/pubmed?term=Ogo%20T%5BAuthor%5D&cauthor=true&cauthor_uid=23884950), [Furuya S](http://www.ncbi.nlm.nih.gov/pubmed?term=Furuya%20S%5BAuthor%5D&cauthor=true&cauthor_uid=23884950), [Snyder SH](http://www.ncbi.nlm.nih.gov/pubmed?term=Snyder%20SH%5BAuthor%5D&cauthor=true&cauthor_uid=23884950), [Wolosker H](http://www.ncbi.nlm.nih.gov/pubmed?term=Wolosker%20H%5BAuthor%5D&cauthor=true&cauthor_uid=23884950). 2013. D-Serine in glia and neurons derives from 3-phosphoglycerate dehydrogenase. *J Neurosci* 33:12464-12469. PMCID:PMC3721849.

Engelhard C, Sarsfield S, Merte J, Wang Q, Li P, Beppu H, Kolodkin AK, Sucov HM, Ginty DD. 2013. MEGF8 is a modifier of BMP signaling in trigeminal sensory neurons. *eLife* 2e01160. PMCID:PMC3776557.

Hughes EG, Kang SH, Fukaya M, Bergles DE. 2013. [Oligodendrocyte progenitors balance growth with self-repulsion to achieve homeostasis in the adult brain.](http://www.ncbi.nlm.nih.gov/pubmed/23624515) *Nat Neurosci* 16:668-76. PMCID:PMC3807738.

Kang SH, Li Y, Fukaya M, Lorenzini I, Cleveland DW, Ostrow LW, Rothstein JD, Bergles DE. 2013. [Degeneration and impaired regeneration of gray matter oligodendrocytes in amyotrophic lateral sclerosis.](http://www.ncbi.nlm.nih.gov/pubmed/23542689) Nat Neurosci. 16:571-9. PMCID:PMC3637847.

Mihalas AB, Araki Y, Huganir RL, Meffert MK. 2013. [Opposing action of nuclear factor κB and Polo-like kinases determines a homeostatic end point for excitatory synaptic adaptation.](http://www.ncbi.nlm.nih.gov/pubmed/24133254) *J Neurosci* 33:16490-501. PMCID:PMC3797372.

[Miranda-Angulo AL](http://www.ncbi.nlm.nih.gov/pubmed?term=Miranda-Angulo%20AL%5BAuthor%5D&cauthor=true&cauthor_uid=23939786), [Byerly MS](http://www.ncbi.nlm.nih.gov/pubmed?term=Byerly%20MS%5BAuthor%5D&cauthor=true&cauthor_uid=23939786), [Mesa J](http://www.ncbi.nlm.nih.gov/pubmed?term=Mesa%20J%5BAuthor%5D&cauthor=true&cauthor_uid=23939786), [Wang H](http://www.ncbi.nlm.nih.gov/pubmed?term=Wang%20H%5BAuthor%5D&cauthor=true&cauthor_uid=23939786), [Blackshaw S](http://www.ncbi.nlm.nih.gov/pubmed?term=Blackshaw%20S%5BAuthor%5D&cauthor=true&cauthor_uid=23939786). 2013. Rax regulates hypothalamic tanycyte differentiation and barrier function in mice. [*J Comp Neurol*](http://www.ncbi.nlm.nih.gov/pubmed/23939786)522:876-99. PMCID:PMC3947139.

Park S, Lee C, Sabharwal P, Zhang M, Meyers CL, Sockanathan S. 2013. [GDE2 promotes neurogenesis by glycosylphosphatidylinositol-anchor cleavage of RECK.](http://www.ncbi.nlm.nih.gov/pubmed/23329048) *Science* 339:324-8. PMCID:PMC3644959.

Sharma K, Choi SY, Zhang Y, Nieland TJ, Long S, Li M, Huganir RL. 2013. [High-throughput genetic screen for synaptogenic factors: identification of LRP6 as critical for excitatory synapse development.](http://www.ncbi.nlm.nih.gov/pubmed/24316074) *Cell Rep* 5:1330-41. PMCID:PMC392421.

Sia GM, Clem RL, Huganir RL. 2013. [The human language-associated gene SRPX2 regulates synapse formation and vocalization in mice.](http://www.ncbi.nlm.nih.gov/pubmed/24179158) *Science* 342:987-91. PMCID:PMC3903157.

Sun LO, Jiang Z, Rivlin-Etzion M, Hand R, Brady C, Matsuoka RL, Yau K-W, Feller MB, Kolodkin AL. 2013. On and off retinal circuit assembly by divergent molecular mechanisms. *Science* 342:1241947. PMCID:PMC3863450.

[Xu D](http://www.ncbi.nlm.nih.gov/pubmed?term=Xu%20D%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Shen W](http://www.ncbi.nlm.nih.gov/pubmed?term=Shen%20W%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Guo R](http://www.ncbi.nlm.nih.gov/pubmed?term=Guo%20R%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Xue Y](http://www.ncbi.nlm.nih.gov/pubmed?term=Xue%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Peng W](http://www.ncbi.nlm.nih.gov/pubmed?term=Peng%20W%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Sima J](http://www.ncbi.nlm.nih.gov/pubmed?term=Sima%20J%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Yang J](http://www.ncbi.nlm.nih.gov/pubmed?term=Yang%20J%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Sharov A](http://www.ncbi.nlm.nih.gov/pubmed?term=Sharov%20A%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Srikantan S](http://www.ncbi.nlm.nih.gov/pubmed?term=Srikantan%20S%5BAuthor%5D&cauthor=true&cauthor_uid=23912945),[Yang J](http://www.ncbi.nlm.nih.gov/pubmed?term=Yang%20J%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Fox D 3rd](http://www.ncbi.nlm.nih.gov/pubmed?term=Fox%20D%203rd%5BAuthor%5D&cauthor=true&cauthor_uid=23912945),[Qian Y](http://www.ncbi.nlm.nih.gov/pubmed?term=Qian%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Martindale JL](http://www.ncbi.nlm.nih.gov/pubmed?term=Martindale%20JL%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Piao Y](http://www.ncbi.nlm.nih.gov/pubmed?term=Piao%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=23912945),[Machamer J](http://www.ncbi.nlm.nih.gov/pubmed?term=Machamer%20J%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Joshi SR](http://www.ncbi.nlm.nih.gov/pubmed?term=Joshi%20SR%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Mohanty S](http://www.ncbi.nlm.nih.gov/pubmed?term=Mohanty%20S%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Shaw AC](http://www.ncbi.nlm.nih.gov/pubmed?term=Shaw%20AC%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Lloyd TE](http://www.ncbi.nlm.nih.gov/pubmed?term=Lloyd%20TE%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Brown GW](http://www.ncbi.nlm.nih.gov/pubmed?term=Brown%20GW%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Ko MS](http://www.ncbi.nlm.nih.gov/pubmed?term=Ko%20MS%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Gorospe M](http://www.ncbi.nlm.nih.gov/pubmed?term=Gorospe%20M%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Zou S](http://www.ncbi.nlm.nih.gov/pubmed?term=Zou%20S%5BAuthor%5D&cauthor=true&cauthor_uid=23912945), [Wang W](http://www.ncbi.nlm.nih.gov/pubmed?term=Wang%20W%5BAuthor%5D&cauthor=true&cauthor_uid=23912945). 2013. Top3β is an RNA topoisomerase that works with fragile X syndrome protein to promote synapse formation. [*Nat Neurosci*](http://www.ncbi.nlm.nih.gov/pubmed/23912945) 16:1238-47. PMCID:PMC3853347.

Zeiler SR, Gibson EM, Hoesch RE, Li MY, Worley PF, O'Brien RJ, Krakauer JW. 2013. [Medial premotor cortex shows a reduction in inhibitory markers and mediates recovery in a mouse model of focal stroke.](http://www.ncbi.nlm.nih.gov/pubmed/23321442) *Stroke* 44:483-9. PMCID:PMC4086919.

2014

[Baxi EG](http://www.ncbi.nlm.nih.gov/pubmed?term=Baxi%20EG%5BAuthor%5D&cauthor=true&cauthor_uid=24863526), [Schott JT](http://www.ncbi.nlm.nih.gov/pubmed?term=Schott%20JT%5BAuthor%5D&cauthor=true&cauthor_uid=24863526), [Fairchild AN](http://www.ncbi.nlm.nih.gov/pubmed?term=Fairchild%20AN%5BAuthor%5D&cauthor=true&cauthor_uid=24863526), [Kirby LA](http://www.ncbi.nlm.nih.gov/pubmed?term=Kirby%20LA%5BAuthor%5D&cauthor=true&cauthor_uid=24863526), [Karani R](http://www.ncbi.nlm.nih.gov/pubmed?term=Karani%20R%5BAuthor%5D&cauthor=true&cauthor_uid=24863526), [Uapinyoying P](http://www.ncbi.nlm.nih.gov/pubmed?term=Uapinyoying%20P%5BAuthor%5D&cauthor=true&cauthor_uid=24863526), [Pardo-Villamizar C](http://www.ncbi.nlm.nih.gov/pubmed?term=Pardo-Villamizar%20C%5BAuthor%5D&cauthor=true&cauthor_uid=24863526), [Rothstine JR](http://www.ncbi.nlm.nih.gov/pubmed?term=Rothstein%20JR%5BAuthor%5D&cauthor=true&cauthor_uid=24863526), [Bergles DE](http://www.ncbi.nlm.nih.gov/pubmed?term=Bergles%20DE%5BAuthor%5D&cauthor=true&cauthor_uid=24863526), [Calabresi PA](http://www.ncbi.nlm.nih.gov/pubmed?term=Calabresi%20PA%5BAuthor%5D&cauthor=true&cauthor_uid=24863526). 2014. A selective thyroid hormone β receptor agonist enhances human and rodent oligodendrocyte differentiation. *Glia* 62:1513-29. PMCID:PMC4107024.

Davis CH, Kim KY, Bushong EA, Mills EA, Boassa D, Shih T, Kinebuchi M, Phan S, Zhou Y, Bihlmeyer NA, Nguyen JV, Jin Y, Ellisman MH, Marsh-Armstrong N. 2014. [Transcellular degradation of axonal mitochondria.](http://www.ncbi.nlm.nih.gov/pubmed/24979790) *Proc Natl Acad Sci USA* 111:9633-8. PMCID:PMC4084443.

Filous A, Howell C, Tran A, Busch S, Evans T, Stallcup W, Kang S, Bergles DE, Lee S, Levine J, and Silver J. 2014. Entrapment via synaptic-like connections between NG2 proteoglycan+ cells and dystrophic axons in the lesion plays a role in regeneration failure after spinal cord injury. *J Neurosci* 34:16369-84. PMCID:PMC4252548.

Issa JB, Haeffele BD, Agarwal A, Bergles DE, Young ED, Yue DT. 2014. [Multiscale optical Ca(2+) imaging of tonal organization in mouse auditory cortex.](http://www.ncbi.nlm.nih.gov/pubmed/25088366) *Neuron* 83:944-59. PMCID:PMC4242551.

[Kim J](http://www.ncbi.nlm.nih.gov/pubmed?term=Kim%20J%5BAuthor%5D&cauthor=true&cauthor_uid=25031405), [Matney CJ](http://www.ncbi.nlm.nih.gov/pubmed?term=Matney%20CJ%5BAuthor%5D&cauthor=true&cauthor_uid=25031405), [Blankenship A](http://www.ncbi.nlm.nih.gov/pubmed?term=Blankenship%20A%5BAuthor%5D&cauthor=true&cauthor_uid=25031405), [Hestrin S](http://www.ncbi.nlm.nih.gov/pubmed?term=Hestrin%20S%5BAuthor%5D&cauthor=true&cauthor_uid=25031405), [Brown SP](http://www.ncbi.nlm.nih.gov/pubmed?term=Brown%20SP%5BAuthor%5D&cauthor=true&cauthor_uid=25031405). 2014. Layer 6 corticothalamic neurons activate a cortical output layer, layer 5a. [*J Neurosci*](http://www.ncbi.nlm.nih.gov/pubmed/25031405) 34:9656-64. PMCID:PMC4099543.

Kim Y, Chu Y, Han L, Li M, Li Z, Sun S, LaVinka PC, Tang, Z, Park K, Caterina M, Dobner R, Wei F, **Dong X**. 2014 Central terminal sensitization of TRPV1 by descending serotonergic facilitation modulates chronic pain. *Neuron* 81:873-887. PMCID:PMC3943838.

Lagarde MM, Wan G, ZhangL, Gigliello A, McInnis J, Zhang YX, BerglesDE, ZuoJ, and Corfas G. 2014. Spontaneous regeneration of cochlear supporting cells after neonatal ablation ensures hearing in the adult mouse. *Proc Natl Acad Sci USA* 111:16919-24. PMC Journal – in process.

Li L, Ginty DD. 2014. [The structure and organization of lanceolate mechanosensory complexes at mouse hair follicles.](http://www.ncbi.nlm.nih.gov/pubmed/24569481) *Elife*:3:e01901. PMCID:PMC3930909.

Liu S, Lamaze A, Liu Q, Tabuchi M, Yang Y, Fowler M, Bharadwaj R, Zhang J, Bedont J, Blackshaw S, Lloyd TE, Montell C, Sehgal A, Koh K, Wu MN. 2014. [WIDE AWAKE mediates the circadian timing of sleep onset.](http://www.ncbi.nlm.nih.gov/pubmed/24631345) *Neuron* 82:151-66. PMCID:PMC3982794.

Machamer JB, Collins SE, Lloyd TE. 2014. The ALS gene FUS regulates synaptic transmission at the Drosophila neuromuscular junction. *Hum Mol Genet* 23:3810-22. PMCID:PMC4065154.

[Paukert M](http://www.ncbi.nlm.nih.gov/pubmed?term=Paukert%20M%5BAuthor%5D&cauthor=true&cauthor_uid=24945771), [Agarwal A](http://www.ncbi.nlm.nih.gov/pubmed?term=Agarwal%20A%5BAuthor%5D&cauthor=true&cauthor_uid=24945771), [Cha J](http://www.ncbi.nlm.nih.gov/pubmed?term=Cha%20J%5BAuthor%5D&cauthor=true&cauthor_uid=24945771), [Doze VA](http://www.ncbi.nlm.nih.gov/pubmed?term=Doze%20VA%5BAuthor%5D&cauthor=true&cauthor_uid=24945771), [Kang JU](http://www.ncbi.nlm.nih.gov/pubmed?term=Kang%20JU%5BAuthor%5D&cauthor=true&cauthor_uid=24945771), [Bergles DE](http://www.ncbi.nlm.nih.gov/pubmed?term=Bergles%20DE%5BAuthor%5D&cauthor=true&cauthor_uid=24945771).. 2014. Norepinephrine controls astroglial responsiveness to local circuit activity. [*Neuron*](http://www.ncbi.nlm.nih.gov/pubmed/24945771) 82:1263-70. PMCID:PMC4080721.

Riccomagno MM, Sun LO, Brady CM, Alexandropoulos, K, Seo S, Kurokawa M, Kolodkin AL. 2014. Cas adaptor proteins organize the retinal ganglion cell layer downstream of integrin signaling. *Neuron* 81:779-86. PMCID:PMC3988023.

Rutlin M, Ho C-Y, Abraira VE, Cassidy C, Woodbury CJ, Ginty DD. 2014. The cellular and molecular basis of direction selectivity of Aσ-LTMRs. *Cell* 159:1640-51. PMCID:PMC4297767.

Wang SH, Celic I, Choi SY, Riccomagno M, Wang Q, Sun LO, Mitchell SP, Vasioukhin V, Huganir RL, Kolodkin AL. 2014. [Dlg5 regulates dendritic spine formation and synaptogenesis by controlling subcellular N-cadherin localization.](http://www.ncbi.nlm.nih.gov/pubmed/25232112) *J Neurosci* 34:12745-61. PMCID:PMC4166160.

2015

Araki Y, Zeng M, Zhang M, Huganir RL. 2015. Rapid dispersion of SynGAP from synaptic spines triggers AMPA receptor insertion and spine enlargement during LTP. *Neuron* 85:173-89. PMCID:PMC4428669.

Hand RA, Khalid S, Tam E, Kolodkin AL. 2015. [Axon dynamics during neocortical laminar innervation.](http://www.ncbi.nlm.nih.gov/pubmed/26146079) *Cell Rep* 12:172-82. PMCID:PMC4517581.

Jin J, Peng Q, Hou Z, Jiang M, Wang X, Langseth AJ, Tao M, Barker PB, Mori S, Bergles DE, Ross CA, Detloff PJ, Zhang J, Duan W. 2015. Early white matter abnormalities, progressive brain pathology and motor deficits in a novel knock-in mouse model of Huntington's disease. *Human Mol Gen* 24:2508-27. PMCID:PMC4383863.

Mills EA, Davis CH, Bushong EA, Boassa D, Kim KY, Ellisman MH, Marsh-Armstrong N. 2015. Astrocytes phagocytose focal dystrophies from shortening myelin segments in the optic nerve of Xenopus laevis at metamorphosis. *Proc Natl Acad Sci* 112:10509-14. PMCID:PMC4547286.

[Ng KL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ng%20KL%5BAuthor%5D&cauthor=true&cauthor_uid=26294676), [Gibson EM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gibson%20EM%5BAuthor%5D&cauthor=true&cauthor_uid=26294676), [Hubbard R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hubbard%20R%5BAuthor%5D&cauthor=true&cauthor_uid=26294676), [Yang J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Yang%20J%5BAuthor%5D&cauthor=true&cauthor_uid=26294676), [Caffo B](https://www.ncbi.nlm.nih.gov/pubmed/?term=Caffo%20B%5BAuthor%5D&cauthor=true&cauthor_uid=26294676), [O'Brien RJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=O'Brien%20RJ%5BAuthor%5D&cauthor=true&cauthor_uid=26294676), [Krakauer JW](https://www.ncbi.nlm.nih.gov/pubmed/?term=Krakauer%20JW%5BAuthor%5D&cauthor=true&cauthor_uid=26294676), [Zeiler SR](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zeiler%20SR%5BAuthor%5D&cauthor=true&cauthor_uid=26294676). 2015. Fluoxetine maintains a state of heightened responsiveness to motor training early after stroke in a mouse model. [*Stroke*](https://www.ncbi.nlm.nih.gov/pubmed/26294676) 46:2951-60. PMCID:[PMC4934654](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4934654/).

Otsu Y, Couchman K, Lyons DG, Collot M, Agarwal A, Mallet J-M, Pfrieger FW, Bergles DE, Charpak S. 2015. Calcium dynamics in astrocyte processes during neurovascular coupling. *Nat Neurosci*. 18:210-8. PMCID:[PMC4651918](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4651918/).

Placone AL, McGuiggan PM, Bergles DE, Guerrero-Cazares H, Quiñones-Hinojosa A, Searson PC. 2015. Human astrocytes develop physiological morphology and remain quiescent in a novel 3D matrix.  *Biomaterials* 42: 134-143. PMCID:PMC4279107.

Rosa JM, Bos R, Sack GS, Fortuny C, Agarwal A, Bergles DE, Flannery JG, and Feller MB. 2015. Neuron-glia signaling in developing retina mediated by neurotransmitter spillover.  *ELife* 4:e09590. PMCID:PMC4566075.

[Rylkova D](https://www.ncbi.nlm.nih.gov/pubmed/?term=Rylkova%20D%5BAuthor%5D&cauthor=true&cauthor_uid=26693178), [Crank AR](https://www.ncbi.nlm.nih.gov/pubmed/?term=Crank%20AR%5BAuthor%5D&cauthor=true&cauthor_uid=26693178)*,* [Linden DJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Linden%20DJ%5BAuthor%5D&cauthor=true&cauthor_uid=26693178). 2015. Chronic in vivo imaging of ponto-cerebellar mossy fibers reveals morphological stability during whisker sensory manipulation in the adult rat. [*eNeuro*](https://www.ncbi.nlm.nih.gov/pubmed/26693178) 2(6): 10.1523/ENEURO.0075-15.2015. PMCID: [PMC4676200](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4676200/).

Sun LO, Brady CM, Cahill H, Al-Khindi T, Sakuta H, Dhande OS, Noda M, Huberman AD, Nathans J, Kolodkin AL. 2015. [Functional assembly of accessory optic system circuitry critical for compensatory eye movements.](http://www.ncbi.nlm.nih.gov/pubmed/25959730) *Neuron* 86:971-84. PMCID:PMC4441577.

Wang H-C, Lin C-C, Cheung R, Zhang-Hooks Y-X, Agarwal A, Ellis-Davies G, Rock J, and Bergles DE. 2015. TMEM16A chloride channels control spontaneous activity in the developing auditory system. *Cell*. 163:1348-59. PMCID:PMC4671825.

Zhang K, [Donnelly CJ](http://www.ncbi.nlm.nih.gov/pubmed/?term=Donnelly%20CJ%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Haeusler AR](http://www.ncbi.nlm.nih.gov/pubmed/?term=Haeusler%20AR%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Grima JC](http://www.ncbi.nlm.nih.gov/pubmed/?term=Grima%20JC%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Machamer JB](http://www.ncbi.nlm.nih.gov/pubmed/?term=Machamer%20JB%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Steinwald P](http://www.ncbi.nlm.nih.gov/pubmed/?term=Steinwald%20P%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Daley EL](http://www.ncbi.nlm.nih.gov/pubmed/?term=Daley%20EL%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Miller SJ](http://www.ncbi.nlm.nih.gov/pubmed/?term=Miller%20SJ%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Cunningham KM](http://www.ncbi.nlm.nih.gov/pubmed/?term=Cunningham%20KM%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Vidensky S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Vidensky%20S%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Gupta S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Gupta%20S%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Thomas MA](http://www.ncbi.nlm.nih.gov/pubmed/?term=Thomas%20MA%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Hong I](http://www.ncbi.nlm.nih.gov/pubmed/?term=Hong%20I%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Chiu SL](http://www.ncbi.nlm.nih.gov/pubmed/?term=Chiu%20SL%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [HUGANIR RL](http://www.ncbi.nlm.nih.gov/pubmed/?term=Huganir%20RL%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Ostrow LW](http://www.ncbi.nlm.nih.gov/pubmed/?term=Ostrow%20LW%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Matunis MJ](http://www.ncbi.nlm.nih.gov/pubmed/?term=Matunis%20MJ%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Wang J](http://www.ncbi.nlm.nih.gov/pubmed/?term=Wang%20J%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [Sattler R](http://www.ncbi.nlm.nih.gov/pubmed/?term=Sattler%20R%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [LLOYD TE](http://www.ncbi.nlm.nih.gov/pubmed/?term=Lloyd%20TE%5BAuthor%5D&cauthor=true&cauthor_uid=26308891), [ROTHSTEIN JD](http://www.ncbi.nlm.nih.gov/pubmed/?term=Rothstein%20JD%5BAuthor%5D&cauthor=true&cauthor_uid=26308891). 2015. The C9orf72 repeat expansion disrupts nucleocytoplasmic transport. [*Nature*](http://www.ncbi.nlm.nih.gov/pubmed/26308891) 525:56-61. PMCID:NIHMSID711045.

2016

Agarwal A, Wu PH, Hughes EG, Tischfield MA, Fukaya M, Tischfield M, Langseth A, Wirtz D, Bergles DE. 2016. Transient opening of the mitochondrial permeability transition pore induces microdomain calcium transients in astrocyte processes. Neuron, 93:587-605. PMCID:PMC5308886.

[Bharadwaj R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bharadwaj%20R%5BAuthor%5D&cauthor=true&cauthor_uid=26662798), [Cunningham KM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cunningham%20KM%5BAuthor%5D&cauthor=true&cauthor_uid=26662798), [Zhang K](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zhang%20K%5BAuthor%5D&cauthor=true&cauthor_uid=26662798), [Lloyd](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lloyd%20TE%5BAuthor%5D&cauthor=true&cauthor_uid=26662798) TE. 2016. FIG4 regulates lysosome membrane homeostasis independent of phosphatase function. [*Hum Mol Genet*](https://www.ncbi.nlm.nih.gov/pubmed/26662798) 25:681-92. PMCID:[PMC4743688](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4743688/).

[Ehmsen JT](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ehmsen%20JT%5BAuthor%5D&cauthor=true&cauthor_uid=27759100), [Liu Y](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liu%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=27759100), [Wang Y](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wang%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=27759100), [Paladugu N](https://www.ncbi.nlm.nih.gov/pubmed/?term=Paladugu%20N%5BAuthor%5D&cauthor=true&cauthor_uid=27759100), [Johnson AE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Johnson%20AE%5BAuthor%5D&cauthor=true&cauthor_uid=27759100), [Rothstein JD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Rothstein%20JD%5BAuthor%5D&cauthor=true&cauthor_uid=27759100), [du Lac S](https://www.ncbi.nlm.nih.gov/pubmed/?term=du%20Lac%20S%5BAuthor%5D&cauthor=true&cauthor_uid=27759100), [Mattson MP](https://www.ncbi.nlm.nih.gov/pubmed/?term=Mattson%20MP%5BAuthor%5D&cauthor=true&cauthor_uid=27759100), [Höke A](https://www.ncbi.nlm.nih.gov/pubmed/?term=H%C3%B6ke%20A%5BAuthor%5D&cauthor=true&cauthor_uid=27759100). 2016. The astrocytic transporter SLC7A10 (Asc-1) mediates glycinergic inhibition of spinal cord motor neurons. *Sci Rep* 6:35592. PMCID: [PMC5069678](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5069678/).

[Jin Y](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jin%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=27499084), [Dougherty SE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dougherty%20SE%5BAuthor%5D&cauthor=true&cauthor_uid=27499084), [Wood K](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wood%20K%5BAuthor%5D&cauthor=true&cauthor_uid=27499084), [Sun L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sun%20L%5BAuthor%5D&cauthor=true&cauthor_uid=27499084), [Cudmore RH](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cudmore%20RH%5BAuthor%5D&cauthor=true&cauthor_uid=27499084), [Abdalla A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Abdalla%20A%5BAuthor%5D&cauthor=true&cauthor_uid=27499084), [Kannan G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kannan%20G%5BAuthor%5D&cauthor=true&cauthor_uid=27499084), [Pletnikov M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pletnikov%20M%5BAuthor%5D&cauthor=true&cauthor_uid=27499084), [Hashemi P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hashemi%20P%5BAuthor%5D&cauthor=true&cauthor_uid=27499084), [Linden DJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Linden%20DJ%5BAuthor%5D&cauthor=true&cauthor_uid=27499084). 2016. Regrowth of serotonin axons in the adult mouse brain following injury. [*Neuron*](https://www.ncbi.nlm.nih.gov/pubmed/27499084) 91:748-62. PMCID: [PMC4990493](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4990493/).

[Kim J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kim%20J%5BAuthor%5D&cauthor=true&cauthor_uid=26791208), [Matney CJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Matney%20CJ%5BAuthor%5D&cauthor=true&cauthor_uid=26791208), [Roth RH](https://www.ncbi.nlm.nih.gov/pubmed/?term=Roth%20RH%5BAuthor%5D&cauthor=true&cauthor_uid=26791208), [Brown SP](https://www.ncbi.nlm.nih.gov/pubmed/?term=Brown%20SP%5BAuthor%5D&cauthor=true&cauthor_uid=26791208). 2016. Synaptic organization of the neuronal circuits of the claustrum. *J Neurosci* 36:773-84. PMCID:[PMC4719014](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4719014/).

[Lagerlöf O](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lagerl%C3%B6f%20O%5BAuthor%5D&cauthor=true&cauthor_uid=26989246), [Slocomb JE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Slocomb%20JE%5BAuthor%5D&cauthor=true&cauthor_uid=26989246), [Hong I](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hong%20I%5BAuthor%5D&cauthor=true&cauthor_uid=26989246), [Aponte Y](https://www.ncbi.nlm.nih.gov/pubmed/?term=Aponte%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=26989246), [Blackshaw S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Blackshaw%20S%5BAuthor%5D&cauthor=true&cauthor_uid=26989246), [Hart GW](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hart%20GW%5BAuthor%5D&cauthor=true&cauthor_uid=26989246), [Huganir RL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Huganir%20RL%5BAuthor%5D&cauthor=true&cauthor_uid=26989246). 2016. The nutrient sensor OGT in PVN neurons regulates feeding. *Science* 351:1293-6. PMCID:[PMC4817221](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4817221/).

[Liu S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liu%20S%5BAuthor%5D&cauthor=true&cauthor_uid=27212237), [Liu Q](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liu%20Q%5BAuthor%5D&cauthor=true&cauthor_uid=27212237), [Tabuchi M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Tabuchi%20M%5BAuthor%5D&cauthor=true&cauthor_uid=27212237), [Wu MN](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wu%20MN%5BAuthor%5D&cauthor=true&cauthor_uid=27212237). 2016. Sleep drive is encoded by neural plastic changes in a dedicated circuit. [*Cell*](https://www.ncbi.nlm.nih.gov/pubmed/27212237) 165:1347-60. PMCID:[PMC4892967](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4892967/).

[Martinez-Monedero R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Martinez-Monedero%20R%5BAuthor%5D&cauthor=true&cauthor_uid=27257620), [Liu C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liu%20C%5BAuthor%5D&cauthor=true&cauthor_uid=27257620), [Weisz C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Weisz%20C%5BAuthor%5D&cauthor=true&cauthor_uid=27257620), [Vyas P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Vyas%20P%5BAuthor%5D&cauthor=true&cauthor_uid=27257620), [Fuchs PA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Fuchs%20PA%5BAuthor%5D&cauthor=true&cauthor_uid=27257620), [Glowatzki E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Glowatzki%20E%5BAuthor%5D&cauthor=true&cauthor_uid=27257620). 2016. GluA2-containing AMPA receptors distinguish ribbon-associated from ribbonless afferent contacts on rat cochlear rair cells. *eNeuro* 3(2):[10.1523/ENEURO.0078-16.2016](https://dx.doi.org/10.1523%2FENEURO.0078-16.2016). PMCID:[PMC4874539](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4874539/).

[Roux I](https://www.ncbi.nlm.nih.gov/pubmed/?term=Roux%20I%5BAuthor%5D&cauthor=true&cauthor_uid=27098031), [Wu JS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wu%20JS%5BAuthor%5D&cauthor=true&cauthor_uid=27098031), [McIntosh JM](https://www.ncbi.nlm.nih.gov/pubmed/?term=McIntosh%20JM%5BAuthor%5D&cauthor=true&cauthor_uid=27098031), [Glowatzki E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Glowatzki%20E%5BAuthor%5D&cauthor=true&cauthor_uid=27098031). 2016. Assessment of the expression and role of the α1-nAChR subunit in efferent cholinergic function during the development of the mammalian cochlea. [*J Neurophysiol*](https://www.ncbi.nlm.nih.gov/pubmed/27098031) 116:479-92.PMCID:[PMC4978794](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4978794/).

[Roy S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Roy%20S%5BAuthor%5D&cauthor=true&cauthor_uid=27903726), [Zhao L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zhao%20L%5BAuthor%5D&cauthor=true&cauthor_uid=27903726), [Wang X](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wang%20X%5BAuthor%5D&cauthor=true&cauthor_uid=27903726). 2016. Distinct neural activities in premotor cortex during natural vocal behaviors in a New World primate, the common marmoset (Callithrix jacchus). [*J Neurosci*](https://www.ncbi.nlm.nih.gov/pubmed/27903726) 36:12168-12179. PMCID: [PMC5148218](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5148218/).

[Vyas P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Vyas%20P%5BAuthor%5D&cauthor=true&cauthor_uid=27696081), [Wu JS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wu%20JS%5BAuthor%5D&cauthor=true&cauthor_uid=27696081), [Zimmerman A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zimmerman%20A%5BAuthor%5D&cauthor=true&cauthor_uid=27696081), [Fuchs P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Fuchs%20P%5BAuthor%5D&cauthor=true&cauthor_uid=27696081), [Glowatzki E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Glowatzki%20E%5BAuthor%5D&cauthor=true&cauthor_uid=27696081). 2016. Tyrosine hydroxylase expression in Type II cochlear afferents in mice. [*J Assoc Res Otolaryngol*.](https://www.ncbi.nlm.nih.gov/pubmed/27696081) 18:139-151. PMCID:[PMC5243262](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5243262/).

Zhang-Hooks Y, Agarwal A, Mishina M, Bergles DE. 2016. [NMDA receptors enhance spontaneous activity and promote neuronal survival in the developing cochlea.](https://www.ncbi.nlm.nih.gov/pubmed/26774161) *Neuron* 89:337-50. PMCID:[PMC4724245](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4724245/).

2017

[Amen AM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Amen%20AM%5BAuthor%5D&cauthor=true&cauthor_uid=28132840), [Ruiz-Garzon CR](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ruiz-Garzon%20CR%5BAuthor%5D&cauthor=true&cauthor_uid=28132840), [Shi J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shi%20J%5BAuthor%5D&cauthor=true&cauthor_uid=28132840), [Subramanian M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Subramanian%20M%5BAuthor%5D&cauthor=true&cauthor_uid=28132840), [Pham DL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pham%20DL%5BAuthor%5D&cauthor=true&cauthor_uid=28132840), [Meffert MK](https://www.ncbi.nlm.nih.gov/pubmed/?term=Meffert%20MK%5BAuthor%5D&cauthor=true&cauthor_uid=28132840). 2017. A rapid induction mechanism for Lin28a in trophic responses. *Mol Cell*, 65:490-503. PMCID: [PMC5325678](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5325678/).

[Baxi EG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Baxi%20EG%5BAuthor%5D&cauthor=true&cauthor_uid=28940645), [DeBruin J](https://www.ncbi.nlm.nih.gov/pubmed/?term=DeBruin%20J%5BAuthor%5D&cauthor=true&cauthor_uid=28940645), [Jin J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jin%20J%5BAuthor%5D&cauthor=true&cauthor_uid=28940645), [Strasburger HJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Strasburger%20HJ%5BAuthor%5D&cauthor=true&cauthor_uid=28940645), [Smith MD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Smith%20MD%5BAuthor%5D&cauthor=true&cauthor_uid=28940645), [Orthmann-Murphy JL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Orthmann-Murphy%20JL%5BAuthor%5D&cauthor=true&cauthor_uid=28940645), [Schott JT](https://www.ncbi.nlm.nih.gov/pubmed/?term=Schott%20JT%5BAuthor%5D&cauthor=true&cauthor_uid=28940645), [Fairchild AN](https://www.ncbi.nlm.nih.gov/pubmed/?term=Fairchild%20AN%5BAuthor%5D&cauthor=true&cauthor_uid=28940645), [Bergles DE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bergles%20DE%5BAuthor%5D&cauthor=true&cauthor_uid=28940645), [Calabresi PA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Calabresi%20PA%5BAuthor%5D&cauthor=true&cauthor_uid=28940645). 2017. Lineage tracing reveals dynamic changes in oligodendrocyte precursor cells following cuprizone-induced demyelination. *Glia*, 65:2087-2098. PMCID:[PMC5761347](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5761347/).

[See comment in PubMed Commons below](https://www.ncbi.nlm.nih.gov/pubmed/28103900#comments)[Cave C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cave%20C%5BAuthor%5D&cauthor=true&cauthor_uid=28103900), [Park S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Park%20S%5BAuthor%5D&cauthor=true&cauthor_uid=28103900), [Rodriguez M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Rodriguez%20M%5BAuthor%5D&cauthor=true&cauthor_uid=28103900), [Nakamura M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Nakamura%20M%5BAuthor%5D&cauthor=true&cauthor_uid=28103900), [Hoke A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hoke%20A%5BAuthor%5D&cauthor=true&cauthor_uid=28103900), [Pletnikov M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pletnikov%20M%5BAuthor%5D&cauthor=true&cauthor_uid=28103900), [Sockanathan S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sockanathan%20S%5BAuthor%5D&cauthor=true&cauthor_uid=28103900). 2017. GDE2 is essential for neuronal survival in the postnatal mammalian spinal cord. *Mol Neurodegener* 12: DOI 10.1186/s13024-017-0148-1. PMCID:[PMC5244531](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5244531/).

[Jeong YH](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jeong%20YH%5BAuthor%5D&cauthor=true&cauthor_uid=28153034), [Ling JP](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ling%20JP%5BAuthor%5D&cauthor=true&cauthor_uid=28153034), [Lin SZ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lin%20SZ%5BAuthor%5D&cauthor=true&cauthor_uid=28153034), [Donde AN](https://www.ncbi.nlm.nih.gov/pubmed/?term=Donde%20AN%5BAuthor%5D&cauthor=true&cauthor_uid=28153034), [Braunstein KE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Braunstein%20KE%5BAuthor%5D&cauthor=true&cauthor_uid=28153034), [Majounie E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Majounie%20E%5BAuthor%5D&cauthor=true&cauthor_uid=28153034), [Traynor BJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Traynor%20BJ%5BAuthor%5D&cauthor=true&cauthor_uid=28153034), [LaClair KD](https://www.ncbi.nlm.nih.gov/pubmed/?term=LaClair%20KD%5BAuthor%5D&cauthor=true&cauthor_uid=28153034), [Lloyd TE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lloyd%20TE%5BAuthor%5D&cauthor=true&cauthor_uid=28153034), [Wong PC](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wong%20PC%5BAuthor%5D&cauthor=true&cauthor_uid=28153034). 2017. Tdp-43 cryptic exons are highly variable between cell types. *Mol Neurodegener*, 12:13. PMCID:[PMC5289002](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5289002/).

[Kim J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kim%20J%5BAuthor%5D&cauthor=true&cauthor_uid=28821643), [Hughes EG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hughes%20EG%5BAuthor%5D&cauthor=true&cauthor_uid=28821643), [Shetty AS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shetty%20AS%5BAuthor%5D&cauthor=true&cauthor_uid=28821643), [Arlotta P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Arlotta%20P%5BAuthor%5D&cauthor=true&cauthor_uid=28821643), [Goff LA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Goff%20LA%5BAuthor%5D&cauthor=true&cauthor_uid=28821643), [Bergles DE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bergles%20DE%5BAuthor%5D&cauthor=true&cauthor_uid=28821643), [Brown SP](https://www.ncbi.nlm.nih.gov/pubmed/?term=Brown%20SP%5BAuthor%5D&cauthor=true&cauthor_uid=28821643). 2017. Changes in the excitability of neocortical neurons in a mouse model of amyotrophic lateral sclerosis are not specific to corticospinal neurons and are modulated by advancing disease. *J Neurosci*, 37:9037-9053. PMCID:[PMC5597984](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5597984/).

[Langseth AJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Langseth%20AJ%5BAuthor%5D&cauthor=true&cauthor_uid=28720882), [Kim J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kim%20J%5BAuthor%5D&cauthor=true&cauthor_uid=28720882), [Ugolino JE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ugolino%20JE%5BAuthor%5D&cauthor=true&cauthor_uid=28720882), [Shah Y](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shah%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=28720882), [Hwang HY](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hwang%20HY%5BAuthor%5D&cauthor=true&cauthor_uid=28720882), [Wang J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wang%20J%5BAuthor%5D&cauthor=true&cauthor_uid=28720882), [Bergles DE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bergles%20DE%5BAuthor%5D&cauthor=true&cauthor_uid=28720882), [Brown SP](https://www.ncbi.nlm.nih.gov/pubmed/?term=Brown%20SP%5BAuthor%5D&cauthor=true&cauthor_uid=28720882). 2017. Cell-type specific differences in promoter activity of the ALS-linked C9orf72 mouse ortholog. *Sci Rep*,7:5685. PMCID:[PMC5515847](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5515847/).

[Li A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Li%20A%5BAuthor%5D&cauthor=true&cauthor_uid=28663888), [Liang W](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liang%20W%5BAuthor%5D&cauthor=true&cauthor_uid=28663888), [Guan H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Guan%20H%5BAuthor%5D&cauthor=true&cauthor_uid=28663888), [Gau YA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gau%20YA%5BAuthor%5D&cauthor=true&cauthor_uid=28663888), [Bergles DE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bergles%20DE%5BAuthor%5D&cauthor=true&cauthor_uid=28663888), [Li X](https://www.ncbi.nlm.nih.gov/pubmed/?term=Li%20X%5BAuthor%5D&cauthor=true&cauthor_uid=28663888). 2017. Focus scanning with feedback-control for fiber-optic nonlinear endomicroscopy. [*Biomed Opt Express*](https://www.ncbi.nlm.nih.gov/pubmed/28663888), 8:2519-2527. PMCID:[PMC5480495](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5480495/).

[Severson KS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Severson%20KS%5BAuthor%5D&cauthor=true&cauthor_uid=28434802), [Xu D](https://www.ncbi.nlm.nih.gov/pubmed/?term=Xu%20D%5BAuthor%5D&cauthor=true&cauthor_uid=28434802), [Van de Loo M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Van%20de%20Loo%20M%5BAuthor%5D&cauthor=true&cauthor_uid=28434802), [Bai L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bai%20L%5BAuthor%5D&cauthor=true&cauthor_uid=28434802), [Ginty DD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ginty%20DD%5BAuthor%5D&cauthor=true&cauthor_uid=28434802), [O'Connor DH](https://www.ncbi.nlm.nih.gov/pubmed/?term=O'Connor%20DH%5BAuthor%5D&cauthor=true&cauthor_uid=28434802). 2017. Active touch and self-motion encoding by Merkel Cell-associated afferents. *Neuron*, 94:666-676. PMCID: [PMC5528144](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5528144/).

[Shevelkin AV](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shevelkin%20AV%5BAuthor%5D&cauthor=true&cauthor_uid=28392471), [Terrillion CE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Terrillion%20CE%5BAuthor%5D&cauthor=true&cauthor_uid=28392471), [Abazyan BN](https://www.ncbi.nlm.nih.gov/pubmed/?term=Abazyan%20BN%5BAuthor%5D&cauthor=true&cauthor_uid=28392471), [Kajstura TJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kajstura%20TJ%5BAuthor%5D&cauthor=true&cauthor_uid=28392471), [Jouroukhin YA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jouroukhin%20YA%5BAuthor%5D&cauthor=true&cauthor_uid=28392471), [Rudow GL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Rudow%20GL%5BAuthor%5D&cauthor=true&cauthor_uid=28392471), [Troncoso JC](https://www.ncbi.nlm.nih.gov/pubmed/?term=Troncoso%20JC%5BAuthor%5D&cauthor=true&cauthor_uid=28392471), [Linden DJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Linden%20DJ%5BAuthor%5D&cauthor=true&cauthor_uid=28392471), [Pletnikov MV](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pletnikov%20MV%5BAuthor%5D&cauthor=true&cauthor_uid=28392471). 2017. Expression of mutant DISC1 in Purkinje cells increases their spontaneous activity and impairs cognitive and social behaviors in mice. *Neurobiol Dis*, 103:144-153. PMCID:[PMC5442447](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5442447/).

Wang Q, Chiu S-L, Koropouli E, Hong I, Mitchell SP, Easwaran TP, Hamilton NR, Gustina AS, Zhu Q, Ginty DD, Huganir RL, and Kolodkin AL. 2017. Neuropilin-2/PplexA3 receptors associate with GluA1 and mediate Sema3F-dependent homeostatic scaling in cortical neurons. *Neuron*, 96:1084-1098. PMCID:[PMC5726806](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5726806/).

Xie X, Tabuchi M, Brown MP, Mitchell SP, Wu MN, and Kolodkin AL 2017. The laminar organization of the Drosophila ellipsoid body is semaphorin-dependent and prevents the formation of ectopic synaptic connections*. eLife*, 6:e25328. PMCID:PMC5511011.

2018

Chevée M, Robertson JJ, Cannon GH, Brown SP, Goff LA. 2018. [Variation in activity state, axonal projection, and position define the transcriptional identity of individual neocortical projection neurons.](https://www.ncbi.nlm.nih.gov/pubmed/29320739) *Cell Rep*. 22:441-455.

Hughes EG, Orthmann-Murphy JL, Lanseth AJ, Bergles DE. In press. Myelin remodeling through experience-dependent oligodendrogenesis in the adult somatosensory cortex. *Nature Neurosci,* PMCID:PMC Journal in Process.

[Kajstura TJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kajstura%20TJ%5BAuthor%5D&cauthor=true&cauthor_uid=28485037), [Dougherty SE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dougherty%20SE%5BAuthor%5D&cauthor=true&cauthor_uid=28485037), [Linden DJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Linden%20DJ%5BAuthor%5D&cauthor=true&cauthor_uid=28485037). 2018. Serotonin axons in the neocortex of the adult female mouse regrow after traumatic brain injury. *J Neurosci Res*, 96:512-526. PMCID: [PMC5680161](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5680161/).

Liu K, Kim J, Kim DW, Zhang YS, Bao H, Denaxa M, Lim S-A, Kim E, Liu C, Wickersham IR, Pachinis V, Hattar S,Song J, Brown SP, Blackshaw S. (2017) Lhx6-positive GABAergic neurons of the zona incerta promote sleep. *Nature*. 548:582-587.