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### References

1. Abdelfattah AS, Zheng J, Singh A, Huang YC, Reep D, Tsegaye G, Tsang A, Arthur BJ, Rehorova M, Olson CVL, Shuai Y, Zhang L, Fu TM, Milkie DE, Moya MV, Weber TD, Lemire AL, Baker CA, Falco N, Zheng Q, Grimm JB, Yip MC, Walpita D, Chase M, Campagnola L, Murphy GJ, Wong AM, Forest CR, Mertz J, Economo MN, Turner GC, Koyama M, Lin BJ, Betzig E, Novak O, Lavis LD, Svoboda K, Korff W, Chen TW, Schreiter ER, Hasseman JP, Kolb I. Sensitivity optimization of rhodopsin-based fluorescent voltage indicator. *Neuron*. 2023 May 17;111(10):1547-1563.e9. Epub 2023 Apr 3. PMID: 37015225; PMCID: PMC10280807.
2. Abdunour RE, Sham HP, Douda DN, Colas RA, Dalli J, Bai Y, Ai X, Serhan CN, Levy BD. Aspirin-triggered resolvins D1 is produced during self-resolving gram-negative bacterial pneumonia and regulates host immune responses for the resolution of lung inflammation. *Mucosal Immunol*. 2016 Sep;9(5):1278-87. Epub 2015 Dec 9. PMID: 26647716; PMCID: PMC5107310.
3. Adel SS, Clarke VRJ, Evans-Strong A, Maguire J, Paradis S. Semaphorin 4D induced inhibitory synaptogenesis decreases epileptiform activity and alters progression to Status Epilepticus in mice. *Epilepsy Res*. 2023 Jul;193:107156. Epub 2023 Apr 27. PMID: 37163910; PMCID: PMC10247425.
4. Aggarwal N, Deerkake ME, DiPalma D, Shahi SK, Gaggioli MR, Mangalam AK, Shinohara ML. Secreted osteopontin from CD4<sup>+</sup> T cells limits acute graft-versus-host disease. *Cell Rep*. 2021 Dec 28;37(13):110170. PMID: 34965439; PMCID: PMC8759344.
5. Ahangari F, Price NL, Malik S, Chioccioli M, Bärnthaler T, Adams TS, Kim J, Pradeep SP, Ding S, Cosmos C Jr, Rose KS, McDonough JE, Aurelien NR, Ibarra G, Omote N, Schupp JC, Deluliis G, Villalba Nunez JA, Sharma L, Ryu C, Dela Cruz CS, Liu X, Prasse A, Rosas

- I, Bahal R, Fernández-Hernando C, Kaminski N. microRNA-33 deficiency in macrophages enhances autophagy, improves mitochondrial homeostasis, and protects against lung fibrosis. *JCI Insight*. 2023 Feb 22;8(4):e158100. PMID: 36626225; PMCID: PMC9977502.
6. Akram KM, Yates LL, Mongey R, Rothery S, Gaboriau DCA, Sanderson J, Hind M, Griffiths M, Dean CH. Live imaging of alveologenesis in precision-cut lung slices reveals dynamic epithelial cell behaviour. *Nat Commun*. 2019 Mar 12;10(1):1178. PMID: 30862802; PMCID: PMC6414680.
  7. Akram KM, Yates LL, Mongey R, Rothery S, Gaboriau DCA, Sanderson J, Hind M, Griffiths M, Dean CH. Time-lapse Imaging of Alveologenesis in Mouse Precision- cut Lung Slices. *Bio Protoc*. 2019 Oct 20;9(20):e3403. PMID: 33654904; PMCID: PMC7853931.
  8. Al Fayez N, Böttger R, Rouhollahi E, Cullis PR, Witzigmann D, Li SD. Improved Liver Delivery of Primaquine by Phospholipid-Free Small Unilamellar Vesicles with Reduced Hemolytic Toxicity. *Mol Pharm*. 2022 Jun 6;19(6):1778-1785. Epub 2021 Sep 21. PMID: 34546758.
  9. Al Fayez N, Rouhollahi E, Ong CY, Wu J, Nguyen A, Böttger R, Cullis PR, Witzigmann D, Li SD. Hepatocyte-targeted delivery of imiquimod reduces hepatitis B virus surface antigen. *J Control Release*. 2022 Oct;350:630-641. Epub 2022 Sep 7. PMID: 36058352.
  10. Al Fayez N, Böttger R, Brown J, Rouhollahi E, Li SD. The mechanism of Hepatocyte-Targeting and safety profile of Phospholipid-Free small unilamellar vesicles. *Int J Pharm*. 2022 Nov 25;628:122269. Epub 2022 Oct 8. PMID: 36220590.
  11. Alsafadi HN, Uhl FE, Pineda RH, Bailey KE, Rojas M, Wagner DE, Königshoff M. Applications and Approaches for Three-Dimensional Precision-Cut Lung Slices. *Disease Modeling and Drug Discovery*. *Am J Respir Cell Mol Biol*. 2020 Jun;62(6):681-691. PMID: 31991090; PMCID: PMC7401444.
  12. Amarelle L, Katzen J, Shigemura M, Welch LC, Cajigas H, Peteranderl C, Celli D, Herold S, Lecuona E, Sznajder JI. Cardiac glycosides decrease influenza virus replication by inhibiting cell protein translational machinery. *Am J Physiol Lung Cell Mol Physiol*. 2019 Jun 1;316(6):L1094-L1106. PMID: 30892074; PMCID: PMC6620673.
  13. Anderson AG, Kulkarni A, Harper M, Konopka G. Single-Cell Analysis of Foxp1-Driven Mechanisms Essential for Striatal Development. *Cell Rep*. 2020 Mar 3;30(9):3051-3066.e7. PMID: 32130906; PMCID: PMC7137930.
  14. Askoxylakis V, Ferraro GB, Kodack DP, Badeaux M, Shankaraiah RC, Seano G, Kloepper J, Vardam T, Martin JD, Naxerova K, Bezwada D, Qi X, Selig MK, Brachtel E, Duda DG, Huang P, Fukumura D, Engelman JA, Jain RK. Preclinical Efficacy of Ado-trastuzumab

Emtansine in the Brain Microenvironment. *J Natl Cancer Inst.* 2015 Nov 7;108(2):djv313. PMID: 26547932; PMCID: PMC4862418.

15. Askoxylakis V, Ferraro GB, Badeaux M, Kodack DP, Kirst I, Shankaraiah RC, Wong CSF, Duda DG, Fukumura D, Jain RK. Dual endothelin receptor inhibition enhances T-DM1 efficacy in brain metastases from HER2-positive breast cancer. *NPJ Breast Cancer.* 2019 Jan 15;5:4. PMID: 30675514; PMCID: PMC6333771.
16. Avelar AJ, Akers AT, Baumgard ZJ, Cooper SY, Casinelli GP, Henderson BJ. Why flavored vape products may be attractive: Green apple tobacco flavor elicits reward-related behavior, upregulates nAChRs on VTA dopamine neurons, and alters midbrain dopamine and GABA neuron function. *Neuropharmacology.* 2019 Nov 1;158:107729. Epub 2019 Jul 29. PMID: 31369741; PMCID: PMC6751572.
17. Aven L, Paez-Cortez J, Achey R, Krishnan R, Ram-Mohan S, Cruikshank WW, Fine A, Ai X. An NT4/TrkB-dependent increase in innervation links early-life allergen exposure to persistent airway hyperreactivity. *FASEB J.* 2014 Feb;28(2):897-907. Epub 2013 Nov 12. PMID: 24221086; PMCID: PMC3898648.
18. Bai Y, Li G, Yung L, Yu PB, Ai X. Intrapulmonary arterial contraction assay reveals region-specific deregulation of vasoreactivity to lung injuries. *Am J Physiol Lung Cell Mol Physiol.* 2023 Aug 1;325(2):L114-L124. Epub 2023 Jun 6. PMID: 37278410; PMCID: PMC10393320.
19. Bakken TE, Hodge RD, Miller JA, Yao Z, Nguyen TN, Aevermann B, Barkan E, Bertagnoli D, Casper T, Dee N, Garren E, Goldy J, Graybuck LT, Kroll M, Lasken RS, Lathia K, Parry S, Rimorin C, Scheuermann RH, Schork NJ, Shehata SI, Tieu M, Phillips JW, Bernard A, Smith KA, Zeng H, Lein ES, Tasic B. Single-nucleus and single-cell transcriptomes compared in matched cortical cell types. *PLoS One.* 2018 Dec 26;13(12):e0209648. PMID: 30586455; PMCID: PMC6306246.
20. Baldominos P, Barbera-Mourelle A, Barreiro O, Huang Y, Wight A, Cho JW, Zhao X, Estivill G, Adam I, Sanchez X, McCarthy S, Schaller J, Khan Z, Ruzo A, Pastorello R, Richardson ET, Dillon D, Montero-Llopis P, Barroso-Sousa R, Forman J, Shukla SA, Tolaney SM, Mittendorf EA, von Andrian UH, Wucherpfennig KW, Hemberg M, Agudo J. Quiescent cancer cells resist T cell attack by forming an immunosuppressive niche. *Cell.* 2022 May 12;185(10):1694-1708.e19. dEpub 2022 Apr 20. PMID: 35447074.
21. Baldominos P, Barreiro O, von Andrian U, Sirera R, Montero-Llopis P, Agudo J. Protocol to isolate live single cells while retaining spatial information by combining cell photolabeling and FACS. *STAR Protoc.* 2022 Oct 28;3(4):101795. PMID: 36325581; PMCID: PMC9619724.
22. Barclay WE, Aggarwal N, Deerhake ME, Inoue M, Nonaka T, Nozaki K, Luzum NA, Miao EA, Shinohara ML. The AIM2 inflammasome is activated in astrocytes during the late phase of EAE. *JCI Insight.* 2022 Apr 22;7(8):e155563. PMID: 35451371; PMCID: PMC9089781.

23. Bariselli S, Miyazaki NL, Creed MC, Kravitz AV. Orbitofrontal-striatal potentiation underlies cocaine-induced hyperactivity. *Nat Commun.* 2020 Aug 10;11(1):3996. PMID: 32778725; PMCID: PMC7417999.
24. Barnes CN, Wallace CW, Jacobowitz BS, Fordahl SC. Reduced phasic dopamine release and slowed dopamine uptake occur in the nucleus accumbens after a diet high in saturated but not unsaturated fat. *Nutr Neurosci.* 2022 Jan;25(1):33-45. Epub 2020 Jan 9. PMID: 31914869; PMCID: PMC7343597.
25. Barrios J, Patel KR, Aven L, Achey R, Minns MS, Lee Y, Trinkaus-Randall VE, Ai X. Early life allergen-induced mucus overproduction requires augmented neural stimulation of pulmonary neuroendocrine cell secretion. *FASEB J.* 2017 Sep;31(9):4117-4128. Epub 2017 May 31. PMID: 28566470; PMCID: PMC5572694.
26. Barry KC, Hsu J, Broz ML, Cueto FJ, Binnewies M, Combes AJ, Nelson AE, Loo K, Kumar R, Rosenblum MD, Alvarado MD, Wolf DM, Bogunovic D, Bhardwaj N, Daud AI, Ha PK, Ryan WR, Pollack JL, Samad B, Asthana S, Chan V, Krummel MF. A natural killer-dendritic cell axis defines checkpoint therapy-responsive tumor microenvironments. *Nat Med.* 2018 Aug;24(8):1178-1191. Epub 2018 Jun 25. PMID: 29942093; PMCID: PMC6475503.
27. Ben-Hamo R, Jacob Berger A, Gavert N, Miller M, Pines G, Oren R, Pikarsky E, Benes CH, Neuman T, Zwang Y, Efroni S, Getz G, Straussman R. Predicting and affecting response to cancer therapy based on pathway-level biomarkers. *Nat Commun.* 2020 Jul 3;11(1):3296. PMID: 32620799; PMCID: PMC7335104.
28. Benavidez NL, Bienkowski MS, Zhu M, Garcia LH, Fayzullina M, Gao L, Bowman I, Gou L, Khanjani N, Cotter KR, Korobkova L, Becerra M, Cao C, Song MY, Zhang B, Yamashita S, Tugangui AJ, Zingg B, Rose K, Lo D, Foster NN, Boesen T, Mun HS, Aquino S, Wickersham IR, Ascoli GA, Hintiryan H, Dong HW. Organization of the inputs and outputs of the mouse superior colliculus. *Nat Commun.* 2021 Jun 28;12(1):4004. PMID: 34183678; PMCID: PMC8239028.
29. Benites NM, Rodrigues B, da Silveira CH, Kushmerick C, Leão RM. Development of electrophysiological properties of fusiform neurons from the dorsal cochlear nucleus of mice before and after hearing onset. *J Neurophysiol.* 2023 Jul 1;130(1):5-22. Epub 2023 May 24. PMID: 37222444.
30. Berg J, Sorensen SA, Ting JT, Miller JA, Chartrand T, Buchin A, Bakken TE, Budzillo A, Dee N, Ding SL, Gouwens NW, Hodge RD, Kalmbach B, Lee C, Lee BR, Alfiler L, Baker K, Barkan E, Beller A, Berry K, Bertagnolli D, Bickley K, Bomben J, Braun T, Brouner K, Casper T, Chong P, Crichton K, Dalley R, de Frates R, Desta T, Lee SD, D'Orazi F, Dotson N, Egdorf T, Enstrom R, Farrell C, Feng D, Fong O, Furdan S, Galakhova AA, Gamlin C, Gary A, Glandon A, Goldy J, Gorham M, Goriounova NA, Gratiy S, Graybuck L, Gu H, Hadley K, Hansen N, Heistek TS, Henry AM, Heyer DB, Hill D, Hill C, Hupp M, Jarsky T, Kebede S, Keene L, Kim L, Kim MH, Kroll M, Latimer C, Levi BP, Link KE, Mallory M, Mann

R, Marshall D, Maxwell M, McGraw M, McMillen D, Melief E, Mertens EJ, Mezei L, Mihut N, Mok S, Molnar G, Mukora A, Ng L, Ngo K, Nicovich PR, Nyhus J, Olah G, Oldre A, Omstead V, Ozsvar A, Park D, Peng H, Pham T, Pom CA, Potekhina L, Rajanbabu R, Ransford S, Reid D, Rimorin C, Ruiz A, Sandman D, Sulc J, Sunkin SM, Szafer A, Szemenyei V, Thomsen ER, Tieu M, Torkelson A, Trinh J, Tung H, Wakeman W, Waleboer F, Ward K, Wilbers R, Williams G, Yao Z, Yoon JG, Anastassiou C, Arkhipov A, Barzo P, Bernard A, Cobbs C, de Witt Hamer PC, Ellenbogen RG, Esposito L, Ferreira M, Gwinn RP, Hawrylycz MJ, Hof PR, Idema S, Jones AR, Keene CD, Ko AL, Murphy GJ, Ng L, Ojemann JG, Patel AP, Phillips JW, Silbergeld DL, Smith K, Tasic B, Yuste R, Segev I, de Kock CPJ, Mansvelder HD, Tamas G, Zeng H, Koch C, Lein ES. Human neocortical expansion involves glutamatergic neuron diversification. *Nature*. 2021 Oct;598(7879):151-158. Epub 2021 Oct 6. Erratum in: *Nature*. 2022 Jan;601(7893):E12. PMID: 34616067; PMCID: PMC8494638.

31. Bienkowski MS, Bowman I, Song MY, Gou L, Ard T, Cotter K, Zhu M, Benavidez NL, Yamashita S, Abu-Jaber J, Azam S, Lo D, Foster NN, Hintiryan H, Dong HW. Integration of gene expression and brain-wide connectivity reveals the multiscale organization of mouse hippocampal networks. *Nat Neurosci*. 2018 Nov;21(11):1628-1643. Epub 2018 Oct 8. PMID: 30297807; PMCID: PMC6398347.
32. Bienkowski MS, Benavidez NL, Wu K, Gou L, Becerra M, Dong HW. Extrastriate connectivity of the mouse dorsal lateral geniculate thalamic nucleus. *J Comp Neurol*. 2019 May 15;527(9):1419-1442. Epub 2019 Feb 4. PMID: 30620046; PMCID: PMC6992387.
33. Bittar A, Bhatt N, Hasan TF, Montalbano M, Puangmalai N, McAllen S, Ellsworth A, Carretero Murillo M, Tagliatalata G, Lucke-Wold B, Logsdon A, Rosen C, Turner RC, Kaye R. Neurotoxic tau oligomers after single versus repetitive mild traumatic brain injury. *Brain Commun*. 2019;1(1):fcz004. Epub 2019 Jun 28. PMID: 31608324; PMCID: PMC6777515.
34. Bittar A, Al-Lahham R, Bhatt N, Moore K, Montalbano M, Jerez C, Fung L, McAllen S, Ellsworth A, Kaye R. Passive Immunotherapy Targeting Tau Oligomeric Strains Reverses Tauopathy Phenotypes in Aged Human-Tau Mice in a Mouse Model-Specific Manner. *J Alzheimers Dis*. 2022;90(3):1103-1122. PMID: 36189593.
35. Blanco-Centurion C, Bendell E, Zou B, Sun Y, Shiromani PJ, Liu M. VGAT and VGLUT2 expression in MCH and orexin neurons in double transgenic reporter mice. *IBRO Rep*. 2018 May 12;4:44-49. PMID: 30155524; PMCID: PMC6111069.
36. Boldajipour B, Nelson A, Krummel MF. Tumor-infiltrating lymphocytes are dynamically desensitized to antigen but are maintained by homeostatic cytokine. *JCI Insight*. 2016 Dec 8;1(20):e89289. PMID: 27942588; PMCID: PMC5135268.
37. Boeshaghi AS, Yao Z, van Velthoven C, Smith K, Tasic B, Zeng H, Pachter L. Isoform cell-type specificity in the mouse primary motor cortex. *Nature*. 2021 Oct;598(7879):195-199. Epub 2021 Oct 6. PMID: 34616073; PMCID: PMC8494650.

38. Boone PG, Rochelle LK, Ginzel JD, Lubkov V, Roberts WL, Nicholls PJ, Bock C, Flowers ML, von Furstenberg RJ, Stripp BR, Agarwal P, Borowsky AD, Cardiff RD, Barak LS, Caron MG, Lyerly HK, Snyder JC. A cancer rainbow mouse for visualizing the functional genomics of oncogenic clonal expansion. *Nat Commun.* 2019 Dec 2;10(1):5490. PMID: 31792216; PMCID: PMC6889384.
39. Bose SK, White BM, Kashyap MV, Dave A, De Bie FR, Li H, Singh K, Menon P, Wang T, Teerdhala S, Swaminathan V, Hartman HA, Jayachandran S, Chandrasekaran P, Musunuru K, Jain R, Frank DB, Zoltick P, Peranteau WH. In utero adenine base editing corrects multi-organ pathology in a lethal lysosomal storage disease. *Nat Commun.* 2021 Jul 13;12(1):4291. PMID: 34257302; PMCID: PMC8277817.
40. Bourne KZ, Natarajan C, Perez CXM, Tumurbaatar B, Tagliatalata G, Krishnan B. Suppressing aberrant phospholipase D1 signaling in 3xTg Alzheimer's disease mouse model promotes synaptic resilience. *Sci Rep.* 2019 Dec 4;9(1):18342. PMID: 31797996; PMCID: PMC6892889.
41. Branchett WJ, Stölting H, Oliver RA, Walker SA, Puttur F, Gregory LG, Gabryšová L, Wilson MS, O'Garra A, Lloyd CM. A T cell-myeloid IL-10 axis regulates pathogenic IFN- $\gamma$ -dependent immunity in a mouse model of type 2-low asthma. *J Allergy Clin Immunol.* 2020 Feb;145(2):666-678.e9. Epub 2019 Aug 22. PMID: 31445933; PMCID: PMC7014588.
42. Brymer KJ, Hurley EP, Barron JC, Mukherjee B, Barnes JR, Nafar F, Parsons MP. Asymmetric dysregulation of glutamate dynamics across the synaptic cleft in a mouse model of Alzheimer's disease. *Acta Neuropathol Commun.* 2023 Feb 14;11(1):27. PMID: 36788598; PMCID: PMC9926626.
43. Buffington SA, Di Prisco GV, Auchtung TA, Ajami NJ, Petrosino JF, Costa-Mattioli M. Microbial Reconstitution Reverses Maternal Diet-Induced Social and Synaptic Deficits in Offspring. *Cell.* 2016 Jun 16;165(7):1762-1775. PMID: 27315483; PMCID: PMC5102250.
44. Bui CB, Kolodziej M, Lamanna E, Elgass K, Sehgal A, Rudloff I, Schwenke DO, Tsuchimochi H, Kroon MAGM, Cho SX, Maksimenko A, Cholewa M, Berger PJ, Young MJ, Bourke JE, Pearson JT, Nold MF, Nold-Petry CA. Interleukin-1 Receptor Antagonist Protects Newborn Mice Against Pulmonary Hypertension. *Front Immunol.* 2019 Jul 11;10:1480. PMID: 31354700; PMCID: PMC6637286.
45. Bunner W, Landry T, Laing BT, Li P, Rao Z, Yuan Y, Huang H. ARC<sup>AgRP/NPY</sup> Neuron Activity Is Required for Acute Exercise-Induced Food Intake in Un-Trained Mice. *Front Physiol.* 2020 May 6;11:411. PMID: 32435204; PMCID: PMC7218131.
46. Burman RJ, Selfe JS, Lee JH, van den Berg M, Calin A, Codadu NK, Wright R, Newey SE, Parrish RR, Katz AA, Wilmshurst JM, Akerman CJ, Trevelyan AJ, Raimondo JV. Excitatory GABAergic signalling is associated with benzodiazepine resistance in status epilepticus. *Brain.* 2019 Nov 1;142(11):3482-3501. PMID: 31553050; PMCID: PMC6904319.

47. Buttrick TS, Wang W, Yung C, Trieu KG, Patel K, Khoury SJ, Ai X, Elyaman W. Foxo1 Promotes Th9 Cell Differentiation and Airway Allergy. *Sci Rep*. 2018 Jan 16;8(1):818. PMID: 29339772; PMCID: PMC5770389.
48. Caballero-Florán RN, Bendahmane M, Gupta JP, Chen X, Wu X, Morales A, Anantharam A, Jenkins PM. Synaptotagmin-7 facilitates acetylcholine release in splanchnic nerve-chromaffin cell synapses during nerve activity. *Neurosci Lett*. 2023 Mar 13;800:137129. Epub 2023 Feb 14. PMID: 36796621; PMCID: PMC10145958.
49. Calovi S, Mut-Arbona P, Tod P, Iring A, Nicke A, Mato S, Vizi ES, Tønnesen J, Sperlagh B. P2X7 Receptor-Dependent Layer-Specific Changes in Neuron-Microglia Reactivity in the Prefrontal Cortex of a Phencyclidine Induced Mouse Model of Schizophrenia. *Front Mol Neurosci*. 2020 Nov 11;13:566251. PMID: 33262687; PMCID: PMC7686553.
50. Cao JW, Guan W, Yu YC, Fu Y. Synaptic Transmission from Somatostatin-expressing Interneurons to Excitatory Neurons Mediated by  $\alpha 5$ -subunit-containing GABA<sub>A</sub> Receptors in the Developing Visual Cortex. *Neuroscience*. 2020 Nov 21;449:147-156. Epub 2020 Sep 11. PMID: 32926954.
51. Cao P, Tan X, Donovan G, Sanderson MJ, Sneyd J. A deterministic model predicts the properties of stochastic calcium oscillations in airway smooth muscle cells. *PLoS Comput Biol*. 2014 Aug 14;10(8):e1003783.. PMID: 25121766; PMCID: PMC4133161.
52. Caputo A, Liang Y, Raabe TD, Lo A, Horvath M, Zhang B, Brown HJ, Stieber A, Luk KC. *SncA*-GFP Knock-In Mice Reflect Patterns of Endogenous Expression and Pathological Seeding. *eNeuro*. 2020 Aug 27;7(4):ENEURO.0007-20.2020. PMID: 32788297; PMCID: PMC7470929.
53. Carr GV, Chen J, Yang F, Ren M, Yuan P, Tian Q, Bebensee A, Zhang GY, Du J, Glineburg P, Xun R, Akhile O, Akuma D, Pickel J, Barrow JC, Papaleo F, Weinberger DR. KCNH2-3.1 expression impairs cognition and alters neuronal function in a model of molecular pathology associated with schizophrenia. *Mol Psychiatry*. 2016 Nov;21(11):1517-1526.. Epub 2016 Feb 9. PMID: 26857598; PMCID: PMC4980295.
54. Castro-Piedras I, Perez-Zoghbi JF. Hydrogen sulphide inhibits Ca<sup>2+</sup> release through InsP3 receptors and relaxes airway smooth muscle. *J Physiol*. 2013 Dec 1;591(23):5999-6015. Epub 2013 Oct 21. PMID: 24144878; PMCID: PMC3872766.
55. Cautivo KM, Matatia PR, Lizama CO, Mroz NM, Dahlgren MW, Yu X, Sbierski-Kind J, Taruselli MT, Brooks JF, Wade-Vallance A, Caryotakis SE, Chang AA, Liang HE, Zikherman J, Locksley RM, Molofsky AB. Interferon gamma constrains type 2 lymphocyte niche boundaries during mixed inflammation. *Immunity*. 2022 Feb 8;55(2):254-271.e7. PMID: 35139352; PMCID: PMC8852844.

56. Cetin A, Callaway EM. Optical control of retrogradely infected neurons using drug-regulated "TLoop" lentiviral vectors. *J Neurophysiol.* 2014 May;111(10):2150-9. Epub 2014 Feb 26. PMID: 24572099; PMCID: PMC4044340.
57. Chadwick SR, Güler AD. Local Drd1-neurons input to subgroups of arcuate AgRP/NPY-neurons. *iScience.* 2022 Jun 15;25(7):104605. PMID: 35789850; PMCID: PMC9250019.
58. Chang AJ, Ortega FE, Riegler J, Madison DV, Krasnow MA. Oxygen regulation of breathing through an olfactory receptor activated by lactate. *Nature.* 2015 Nov 12;527(7577):240-4. PMID: 26560302; PMCID: PMC4765808.
59. Chen-Roetling J, Lu X, Regan KA, Regan RF. A rapid fluorescent method to quantify neuronal loss after experimental intracerebral hemorrhage. *J Neurosci Methods.* 2013 Jun 15;216(2):128-36. Epub 2013 Apr 10. PMID: 23583700; PMCID: PMC3679307.
60. Cheng M, Ye C, Tian C, Zhao D, Li H, Sun Z, Miao Y, Zhang Q, Wang J, Dou Y. Engineered macrophage-biomimetic versatile nanoantidotes for inflammation-targeted therapy against Alzheimer's disease by neurotoxin neutralization and immune recognition suppression. *Bioact Mater.* 2023 Mar 15;26:337-352. PMID: 36950153; PMCID: PMC10027514.
61. Chen G, Lai S, Bao G, Ke J, Meng X, Lu S, Wu X, Xu H, Wu F, Xu Y, Xu F, Bi GQ, Peng G, Zhou K, Zhu Y. Distinct reward processing by subregions of the nucleus accumbens. *Cell Rep.* 2023 Feb 6;42(2):112069. Epub ahead of print. PMID: 36753418.
62. Chen J, Sanderson MJ. Store-operated calcium entry is required for sustained contraction and  $Ca^{2+}$  oscillations of airway smooth muscle. *J Physiol.* 2017 May 15;595(10):3203-3218. Epub 2016 Aug 2. PMID: 27396568; PMCID: PMC5430234.
63. Chen J, Miller M, Unno H, Rosenthal P, Sanderson MJ, Broide DH. Orosomucoid-like 3 (ORMDL3) upregulates airway smooth muscle proliferation, contraction, and  $Ca^{2+}$  oscillations in asthma. *J Allergy Clin Immunol.* 2018 Jul;142(1):207-218.e6. Epub 2017 Sep 7. PMID: 28889952; PMCID: PMC5842097.
64. Chen S, Kadakia F, Davidson S. Group II metabotropic glutamate receptor expressing neurons in anterior cingulate cortex become sensitized after inflammatory and neuropathic pain. *Mol Pain.* 2020 Jan-Dec;16: 1744806920915339. PMID: 32326814; PMCID: PMC7227149.
65. Cheong SS, Akram KM, Matellan C, Kim SY, Gaboriau DCA, Hind M, Del Río Hernández AE, Griffiths M, Dean CH. The Planar Polarity Component VANG2 Is a Key Regulator of Mechanosignaling. *Front Cell Dev Biol.* 2020 Oct 29;8:577201. PMID: 33195213; PMCID: PMC7658195.



66. Chou SM, Li KX, Huang MY, Chen C, Lin King YH, Li GG, Zhou W, Teo CF, Jan YN, Jan LY, Yang SB. Kv1.1 channels regulate early postnatal neurogenesis in mouse hippocampus via the TrkB signaling pathway. *Elife*. 2021 May 21;10:e58779. PMID: 34018923; PMCID: PMC8208815.
67. Chun YS, Kim MY, Lee SY, Kim MJ, Hong TJ, Jeon JK, Ganbat D, Kim HT, Kim SS, Kam TI, Han S. MEK1/2 inhibition rescues neurodegeneration by TFEB-mediated activation of autophagic lysosomal function in a model of Alzheimer's Disease. *Mol Psychiatry*. 2022 Nov;27(11):4770-4780. Epub 2022 Aug 10. PMID: 35948663; PMCID: PMC9734062.
68. Colon LM, Poulos AM. Contextual processing elicits sex differences in dorsal hippocampus activation following footshock and context fear retrieval. *Behav Brain Res*. 2020 Sep 1;393:112771. Epub 2020 Jun 16. PMID: 32561387; PMCID: PMC8710230.
69. Comerota MM, Tumurbaatar B, Krishnan B, Kayed R, Taglialatela G. Near Infrared Light Treatment Reduces Synaptic Levels of Toxic Tau Oligomers in Two Transgenic Mouse Models of Human Tauopathies. *Mol Neurobiol*. 2019 May;56(5):3341-3355. Epub 2018 Aug 17. PMID: 30120733; PMCID: PMC6476871.
70. Cooper JG, Sicard D, Sharma S, Van Gulden S, McGuire TL, Cajiao MP, Tschumperlin DJ, Kessler JA. Spinal Cord Injury Results in Chronic Mechanical Stiffening. *J Neurotrauma*. 2020 Feb 1;37(3):494-506. Epub 2019 Oct 18. PMID: 31516087; PMCID: PMC6978780.
71. Cooper SY, Akers AT, Henderson BJ. Green Apple e-Cigarette Flavorant Farnesene Triggers Reward-Related Behavior by Promoting High-Sensitivity nAChRs in the Ventral Tegmental Area. *eNeuro*. 2020 Aug 12;7(4):ENEURO.0172-20.2020. PMID: 32747456; PMCID: PMC7433896.
72. Cooper SY, Willis CV, Richardson MR, Hill SP, Wright SK, Elmore MB, Mitchell ZB, González Castro AK, Henderson BJ. Chemical Flavorants in Vaping Products Alter Neurobiology in a Sex-Dependent Manner to Promote Vaping-Related Behaviors. *J Neurosci*. 2023 Feb 22;43(8):1360-1374. Epub 2023 Jan 23. PMID: 36690450; PMCID: PMC9987575.
73. Copits BA, Gowrishankar R, O'Neill PR, Li JN, Girven KS, Yoo JJ, Meshik X, Parker KE, Spangler SM, Elerding AJ, Brown BJ, Shirley SE, Ma KKL, Vasquez AM, Stander MC, Kalyanaraman V, Vogt SK, Samineni VK, Patriarchi T, Tian L, Gautam N, Sunahara RK, Gereau RW 4th, Bruchas MR. A photoswitchable GPCR-based opsin for presynaptic inhibition. *Neuron*. 2021 Jun 2;109(11):1791-1809.e11. Epub 2021 May 11. PMID: 33979635; PMCID: PMC8194251.
74. Co M, Hickey SL, Kulkarni A, Harper M, Konopka G. Cortical Foxp2 Supports Behavioral Flexibility and Developmental Dopamine D1 Receptor Expression. *Cereb Cortex*. 2020 Mar 14;30(3):1855-1870. PMID: 31711176; PMCID: PMC7132914.

75. Cuddy LK, Alia AO, Salvo MA, Chandra S, Grammatopoulos TN, Justman CJ, Lansbury PT Jr, Mazzulli JR, Vassar R. Farnesyltransferase inhibitor LNK-754 attenuates axonal dystrophy and reduces amyloid pathology in mice. *Mol Neurodegener.* 2022 Aug 20;17(1):54. PMID: 35987691; PMCID: PMC9392365.
76. Dahlgren MW, Jones SW, Cautivo KM, Dubinin A, Ortiz-Carpena JF, Farhat S, Yu KS, Lee K, Wang C, Molofsky AV, Tward AD, Krummel MF, Peng T, Molofsky AB. Adventitial Stromal Cells Define Group 2 Innate Lymphoid Cell Tissue Niches. *Immunity.* 2019 Mar 19;50(3):707-722.e6. Epub 2019 Feb 26. PMID: 30824323; PMCID: PMC6553479.
77. Danielsson J, Perez-Zoghbi J, Bernstein K, Barajas MB, Zhang Y, Kumar S, Sharma PK, Gallos G, Emala CW. Antagonists of the TMEM16A calcium-activated chloride channel modulate airway smooth muscle tone and intracellular calcium. *Anesthesiology.* 2015 Sep;123(3):569-81. PMID: 26181339; PMCID: PMC4543527.
78. Dao NC, Brockway DF, Crowley NA. In Vitro Optogenetic Characterization of Neuropeptide Release from Prefrontal Cortical Somatostatin Neurons. *Neuroscience.* 2019 Nov 1;419:1-4. Epub 2019 Sep 2. PMID: 31487544.
79. Dao NC, Suresh Nair M, Magee SN, Moyer JB, Sendao V, Brockway DF, Crowley NA. Forced Abstinence From Alcohol Induces Sex-Specific Depression-Like Behavioral and Neural Adaptations in Somatostatin Neurons in Cortical and Amygdalar Regions. *Front Behav Neurosci.* 2020 May 27;14:86. PMID: 32536856; PMCID: PMC7266989.
80. Deshet-Unger N, Horn G, Rawet-Slobodkin M, Waks T, Laskov I, Michaan N, Raz Y, Bar V, Zundeleovich A, Aharon S, Turovsky L, Mallel G, Salpeter S, Neev G, Hollander KS, Katz BZ, Grisaru D, Globerson Levin A. Comparing Intraperitoneal and Intravenous Personalized ErbB2CAR-T for the Treatment of Epithelial Ovarian Cancer. *Biomedicines.* 2022 Sep 7;10(9):2216. PMID: 36140319; PMCID: PMC9496506.
81. Díaz-García CM, Meyer DJ, Nathwani N, Rahman M, Martínez-François JR, Yellen G. The distinct roles of calcium in rapid control of neuronal glycolysis and the tricarboxylic acid cycle. *Elife.* 2021 Feb 8;10:e64821. PMID: 33555254; PMCID: PMC7870136.
82. Ding SL, Yao Z, Hirokawa KE, Nguyen TN, Graybuck LT, Fong O, Bohn P, Ngo K, Smith KA, Koch C, Phillips JW, Lein ES, Harris JA, Tasic B, Zeng H. Distinct Transcriptomic Cell Types and Neural Circuits of the Subiculum and Prosubiculum along the Dorsal-Ventral Axis. *Cell Rep.* 2020 May 19;31(7):107648. PMID: 32433957; PMCID: PMC7394561.
83. Dongelmans M, Durand-de Cuttoli R, Nguyen C, Come M, Duranté EK, Lemoine D, Brito R, Ahmed Yahia T, Mondoloni S, Didiene S, Bousseyl E, Hanneke B, Reynolds LM, Torquet N, Dalkara D, Marti F, Mourot A, Naudé J, Faure P. Chronic nicotine increases midbrain dopamine neuron activity and biases individual strategies towards reduced exploration in mice. *Nat Commun.* 2021 Nov 26;12(1):6945. PMID: 34836948; PMCID: PMC8635406.

84. Dorofeikova M, Borkar CD, Weissmuller K, Smith-Osborne L, Basavanhalli S, Bean E, Smith A, Duong A, Resendez A, Fadok JP. Effects of footshock stress on social behavior and neuronal activation in the medial prefrontal cortex and amygdala of male and female mice. *PLoS One*. 2023 Feb 9;18(2):e0281388. PMID: 36757923; PMCID: PMC9910713.
85. Doyle S, Hansen DB, Vella J, Bond P, Harper G, Zammit C, Valentino M, Fern R. Vesicular glutamate release from central axons contributes to myelin damage. *Nat Commun*. 2018 Mar 12;9(1):1032. PMID: 29531223; PMCID: PMC5847599.
86. Dragunas G, Woest ME, Nijboer S, Bos ST, van Asselt J, de Groot AP, Vohlídalová E, Vermeulen CJ, Ditz B, Vonk JM, Koppelman GH, van den Berge M, Ten Hacken NHT, Timens W, Munhoz CD, Prakash YS, Gosens R, Kistemaker LEM. Cholinergic neuroplasticity in asthma driven by TrkB signaling. *FASEB J*. 2020 Jun;34(6):7703-7717. Epub 2020 Apr 11. PMID: 32277855; PMCID: PMC7302963.
87. Duncan J, Kersigo J, Gray B, Fritzscht B. Combining lipophilic dye, in situ hybridization, immunohistochemistry, and histology. *J Vis Exp*. 2011 Mar 17;(49):2451. PMID: 21445047; PMCID: PMC3197290.
88. Durand-de Cuttoli R, Mondoloni S, Marti F, Lemoine D, Nguyen C, Naudé J, d'Izarny-Gargas T, Pons S, Maskos U, Trauner D, Kramer RH, Faure P, Mourot A. Manipulating midbrain dopamine neurons and reward-related behaviors with light- controllable nicotinic acetylcholine receptors. *Elife*. 2018 Sep 4;7:e37487. PMID: 30176987; PMCID: PMC6122951.
89. Egawa K, Watanabe M, Shiraishi H, Sato D, Takahashi Y, Nishio S, Fukuda A. Imbalanced expression of cation-chloride cotransporters as a potential therapeutic target in an Angelman syndrome mouse model. *Sci Rep*. 2023 Apr 17;13(1):5685. PMID: 37069177; PMCID: PMC10110603.
90. Eleftheriadis N, Neochoritis CG, Leus NG, van der Wouden PE, Dömling A, Dekker FJ. Rational Development of a Potent 15-Lipoxygenase-1 Inhibitor with in Vitro and ex Vivo Anti-inflammatory Properties. *J Med Chem*. 2015 Oct 8;58(19):7850-62. Epub 2015 Sep 16. PMID: 26331552; PMCID: PMC4872822.
91. Eleftheriadis N, Poelman H, Leus NGJ, Honrath B, Neochoritis CG, Dolga A, Dömling A, Dekker FJ. Design of a novel thiophene inhibitor of 15-lipoxygenase-1 with both anti-inflammatory and neuroprotective properties. *Eur J Med Chem*. 2016 Oct 21;122:786-801. Epub 2016 Jul 9. PMID: 27477687; PMCID: PMC5010146.
92. Elliott KL, Kersigo J, Lee JH, Yamoah EN, Fritzscht B. Sustained Loss of *Bdnf* Affects Peripheral but Not Central Vestibular Targets. *Front Neurol*. 2021 Dec 16;12:768456. PMID: 34975728; PMCID: PMC8716794.

93. Emmons HA, Wallace CW, Fordahl SC. Interleukin-6 and tumor necrosis factor- $\alpha$  attenuate dopamine release in mice fed a high-fat diet, but not medium or low- fat diets. *Nutr Neurosci*. 2023 Sep;26(9):864-874. Epub 2022 Jul 28. PMID: 35900193; PMCID: PMC9883593.
94. Entwistle LJ, Puttur F, Gregory LG, Lloyd CM. Group 2 ILC Functional Assays in Allergic Airway Inflammation. *Methods Mol Biol*. 2020;2121:99-114. PMID: 32147790.
95. Farias A, Soto A, Puttur F, Goldin CJ, Sosa S, Gil C, Goldbaum FA, Berguer PM. A TLR4 agonist improves immune checkpoint blockade treatment by increasing the ratio of effector to regulatory cells within the tumor microenvironment. *Sci Rep*. 2021 Jul 28;11(1):15406. PMID: 34321536; PMCID: PMC8319313.
96. Feng M, Crowley NA, Patel A, Guo Y, Bugni SE, Luscher B. Reversal of a Treatment-Resistant, Depression-Related Brain State with the Kv7 Channel Opener Retigabine. *Neuroscience*. 2019 May 15;406:109-125. Epub 2019 Mar 8. PMID: 30858110; PMCID: PMC6511483.
97. Feng T, Alicea C, Pham V, Kirk A, Pieraut S. Experience-Dependent Inhibitory Plasticity Is Mediated by CCK+ Basket Cells in the Developing Dentate Gyrus. *J Neurosci*. 2021 May 26;41(21):4607-4619. Epub 2021 Apr 27. PMID: 33906898; PMCID: PMC8260240.
98. Ferraro GB, Ali A, Luengo A, Kodack DP, Deik A, Abbott KL, Bezwada D, Blanc L, Prideaux B, Jin X, Posada JM, Chen J, Chin CR, Amoozgar Z, Ferreira R, Chen IX, Naxerova K, Ng C, Westermarck AM, Duquette M, Roberge S, Lindeman NI, Lyssiotis CA, Nielsen J, Housman DE, Duda DG, Brachtel E, Golub TR, Cantley LC, Asara JM, Davidson SM, Fukumura D, Dartois VA, Clish CB, Jain RK, Vander Heiden MG. FATTY ACID SYNTHESIS IS REQUIRED FOR BREAST CANCER BRAIN METASTASIS. *Nat Cancer*. 2021 Apr;2(4):414-428. Epub 2021 Apr 1. Erratum in: *Nat Cancer*. 2021 Nov;2(11):1243. PMID: 34179825; PMCID: PMC8223728.
99. Ferreira P, Vaja R, Lopes-Pires M, Crescente M, Yu H, Nüsing R, Liu B, Zhou Y, Yaqoob M, Zhang A, Rickman M, Longhurst H, White WE, Knowles RB, Chan MV, Warner TD, Want E, Kirkby NS, Mitchell JA. Renal Function Underpins the Cyclooxygenase-2: Asymmetric Dimethylarginine Axis in Mouse and Man. *Kidney Int Rep*. 2023 Mar 23;8(6):1231-1238. PMID: 37284684; PMCID: PMC10239776.
100. Finetti F, Capitani N, Manganaro N, Tatangelo V, Libonati F, Panattoni G, Calaresu I, Ballerini L, Baldari CT, Patrussi L. Optimization of Organotypic Cultures of Mouse Spleen for Staining and Functional Assays. *Front Immunol*. 2020 Mar 24;11:471. PMID: 32265925; PMCID: PMC7105700.
101. Fisher NM, Gogliotti RG, Vermudez SAD, Stansley BJ, Conn PJ, Niswender CM. Genetic Reduction or Negative Modulation of mGlu<sub>7</sub> Does Not Impact Anxiety and Fear Learning Phenotypes in a Mouse Model of MECP2 Duplication Syndrome. *ACS Chem*

Neurosci. 2018 Sep 19;9(9):2210-2217. Epub 2017 Dec 14. PMID: 29227625; PMCID: PMC6002927.

102. Fisher NM, Gould RW, Gogliotti RG, McDonald AJ, Badivuku H, Chennareddy S, Buch AB, Moore AM, Jenkins MT, Robb WH, Lindsley CW, Jones CK, Conn PJ, Niswender CM. Phenotypic profiling of mGlu<sub>7</sub> knockout mice reveals new implications for neurodevelopmental disorders. *Genes Brain Behav.* 2020 Sep;19(7):e12654. Epub 2020 Apr 14. PMID: 32248644; PMCID: PMC8034495.
103. Friedrichsen K, Ramakrishna P, Hsiang JC, Valkova K, Kerschensteiner D, Morgan JL. Reconstructing neural circuits using multiresolution correlated light and electron microscopy. *Front Neural Circuits.* 2022 Oct 21;16:753496. PMID: 36338333; PMCID: PMC9635852.
104. Fritsch B, Duncan JS, Kersigo J, Gray B, Elliott KL. Neuroanatomical Tracing Techniques in the Ear: History, State of the Art, and Future Developments. *Methods Mol Biol.* 2016;1427:243-62. PMID: 27259931; PMCID: PMC4993453.
105. Gaige S, Barbouche R, Barbot M, Boularand S, Dallaporta M, Abysique A, Troadec JD. Constitutively active microglial populations limit anorexia induced by the food contaminant deoxynivalenol. *J Neuroinflammation.* 2022 Nov 19;19(1):280. PMID: 36403004; PMCID: PMC9675145.
106. Gallos G, Yocum GT, Siviski ME, Yim PD, Fu XW, Poe MM, Cook JM, Harrison N, Perez-Zoghbi J, Emala CW Sr. Selective targeting of the  $\alpha 5$ -subunit of GABAA receptors relaxes airway smooth muscle and inhibits cellular calcium handling. *Am J Physiol Lung Cell Mol Physiol.* 2015 May 1;308(9):L931-42. Epub 2015 Feb 6. PMID: 25659897; PMCID: PMC4421780.
107. Garcia I, Huang L, Ung K, Arenkiel BR. Tracing synaptic connectivity onto embryonic stem cell-derived neurons. *Stem Cells.* 2012 Oct;30(10):2140-51. PMID: 22996827; PMCID: PMC3458586.
108. Garcia I, Bhullar PK, Tepe B, Ortiz-Guzman J, Huang L, Herman AM, Chaboub L, Deneen B, Justice NJ, Arenkiel BR. Local corticotropin releasing hormone (CRH) signals to its receptor CRHR1 during postnatal development of the mouse olfactory bulb. *Brain Struct Funct.* 2016 Jan;221(1):1-20. Epub 2014 Sep 16. PMID: 25224546; PMCID: PMC4362939.
109. Gavert N, Zwang Y, Weiser R, Greenberg O, Halperin S, Jacobi O, Mallel G, Sandler O, Berger AJ, Stossel E, Rotin D, Grinshpun A, Kamer I, Bar J, Pines G, Saidian D, Bar I, Golan S, Rosenbaum E, Nadu A, Ben-Ami E, Weitzen R, Nechushtan H, Golan T, Brenner B, Nissan A, Margalit O, Hershkovitz D, Lahat G, Straussman R. Ex vivo organotypic cultures for synergistic therapy prioritization identify patient-specific responses to combined MEK and Src inhibition in colorectal cancer. *Nat Cancer.* 2022 Feb;3(2):219-231. Epub 2022 Feb 10. PMID: 35145327.

110. George NM, Gentile Polese A, Merle L, Macklin WB, Restrepo D. Excitable Axonal Domains Adapt to Sensory Deprivation in the Olfactory System. *J Neurosci*. 2022 Feb 23;42(8):1491-1509. Epub 2022 Jan 12. PMID: 35022219; PMCID: PMC8883855.
111. Godino A, Sallery M, Durand-de Cuttoli R, Estill MS, Holt LM, Futamura R, Browne CJ, Mews P, Hamilton PJ, Neve RL, Shen L, Russo SJ, Nestler EJ. Transcriptional control of nucleus accumbens neuronal excitability by retinoid X receptor alpha tunes sensitivity to drug rewards. *Neuron*. 2023 May 3;111(9):1453-1467.e7. Epub 2023 Mar 7. PMID: 36889314; PMCID: PMC10164098.
112. Goldklang MP, Perez-Zoghbi JF, Trischler J, Nkyimbeng T, Zakharov SI, Shiomi T, Zelonina T, Marks AR, D'Armiento JM, Marx SO. Treatment of experimental asthma using a single small molecule with anti-inflammatory and BK channel-activating properties. *FASEB J*. 2013 Dec;27(12):4975-86. Epub 2013 Aug 30. PMID: 23995289; PMCID: PMC3834782.
113. Goussakov I, Synowiec S, Yarnykh V, Drobyshevsky A. Immediate and delayed decrease of long term potentiation and memory deficits after neonatal intermittent hypoxia. *Int J Dev Neurosci*. 2019 May;74:27-37. Epub 2019 Mar 9. PMID: 30858028; PMCID: PMC6461389.
114. Gouwens NW, Sorensen SA, Berg J, Lee C, Jarsky T, Ting J, Sunkin SM, Feng D, Anastassiou CA, Barkan E, Bickley K, Blesie N, Braun T, Brouner K, Budzillo A, Caldejon S, Casper T, Castelli D, Chong P, Crichton K, Cuhaciyani C, Daigle TL, Dalley R, Dee N, Desta T, Ding SL, Dingman S, Doperalski A, Dotson N, Egdorf T, Fisher M, de Frates RA, Garren E, Garwood M, Gary A, Gaudreault N, Godfrey K, Gorham M, Gu H, Habel C, Hadley K, Harrington J, Harris JA, Henry A, Hill D, Josephsen S, Kebede S, Kim L, Kroll M, Lee B, Lemon T, Link KE, Liu X, Long B, Mann R, McGraw M, Mihalas S, Mukora A, Murphy GJ, Ng L, Ngo K, Nguyen TN, Nicovich PR, Oldre A, Park D, Parry S, Perkins J, Potekhina L, Reid D, Robertson M, Sandman D, Schroedter M, Slaughterbeck C, Soler-Llavina G, Sulc J, Szafer A, Tasic B, Taskin N, Teeter C, Thatra N, Tung H, Wakeman W, Williams G, Young R, Zhou Z, Farrell C, Peng H, Hawrylycz MJ, Lein E, Ng L, Arkhipov A, Bernard A, Phillips JW, Zeng H, Koch C. Classification of electrophysiological and morphological neuron types in the mouse visual cortex. *Nat Neurosci*. 2019 Jul;22(7):1182-1195. Epub 2019 Jun 17. PMID: 31209381; PMCID: PMC8078853.
115. Gouwens NW, Sorensen SA, Baftizadeh F, Budzillo A, Lee BR, Jarsky T, Alfiler L, Baker K, Barkan E, Berry K, Bertagnolli D, Bickley K, Bomben J, Braun T, Brouner K, Casper T, Crichton K, Daigle TL, Dalley R, de Frates RA, Dee N, Desta T, Lee SD, Dotson N, Egdorf T, Ellingwood L, Enstrom R, Esposito L, Farrell C, Feng D, Fong O, Gala R, Gamlin C, Gary A, Glandon A, Goldy J, Gorham M, Graybuck L, Gu H, Hadley K, Hawrylycz MJ, Henry AM, Hill D, Hupp M, Kebede S, Kim TK, Kim L, Kroll M, Lee C, Link KE, Mallory M, Mann R, Maxwell M, McGraw M, McMillen D, Mukora A, Ng L, Ngo K, Nicovich PR, Oldre A, Park D, Peng H, Penn O, Pham T, Pom A, Popović Z, Potekhina L, Rajanbabu R, Ransford S, Reid D, Rimorin C, Robertson M, Ronellenfitch K, Ruiz A, Sandman D, Smith K, Sulc J, Sunkin SM, Szafer A, Tieu M, Torkelson A, Trinh J, Tung H, Wakeman W, Ward K, Williams G, Zhou Z, Ting JT, Arkhipov A, Sümbül U, Lein ES, Koch C, Yao Z, Tasic B, Berg J, Murphy GJ, Zeng H. Integrated Morphoelectric and Transcriptomic Classification of Cortical GABAergic Cells. *Cell*. 2020 Nov 12;183(4):935-953.e19. PMID: 33186530; PMCID: PMC7781065.

116. Grannan MD, Mielnik CA, Moran SP, Gould RW, Ball J, Lu Z, Bubser M, Ramsey AJ, Abe M, Cho HP, Nance KD, Blobaum AL, Niswender CM, Conn PJ, Lindsley CW, Jones CK. Prefrontal Cortex-Mediated Impairments in a Genetic Model of NMDA Receptor Hypofunction Are Reversed by the Novel M<sup>1</sup> PAM VU6004256. *ACS Chem Neurosci*. 2016 Dec 21;7(12):1706-1716. Epub 2016 Oct 5. PMID: 27617634; PMCID: PMC5231396.
117. Graybuck LT, Daigle TL, Sedeño-Cortés AE, Walker M, Kalmbach B, Lenz GH, Morin E, Nguyen TN, Garren E, Bendrick JL, Kim TK, Zhou T, Mortrud M, Yao S, Siverts LA, Larsen R, Gore BB, Szelenyi ER, Trader C, Balaram P, van Velthoven CTJ, Chiang M, Mich JK, Dee N, Goldy J, Cetin AH, Smith K, Way SW, Esposito L, Yao Z, Gradinaru V, Sunkin SM, Lein E, Levi BP, Ting JT, Zeng H, Tasic B. Enhancer viruses for combinatorial cell-subclass-specific labeling. *Neuron*. 2021 May 5;109(9):1449-1464.e13. Epub 2021 Mar 30. PMID: 33789083; PMCID: PMC8610077.
118. Gray SR, Ye L, Ye JY, Paukert M. Noradrenergic terminal short-term potentiation enables modality-selective integration of sensory input and vigilance state. *Sci Adv*. 2021 Dec 17;7(51):eabk1378. Epub 2021 Dec 17. PMID: 34919424; PMCID: PMC8682997.
119. Grifasi IR, Evans WA, Rexha AD, Sako LW, Marshall SA. A comparison of hippocampal microglial responses in aged and young rodents following dependent and non-dependent binge drinking. *Int Rev Neurobiol*. 2019;148:305-343. Epub 2019 Nov 1. PMID: 31733666; PMCID: PMC9875180.
120. Griffiths KK, Wang A, Wang L, Tracey M, Kleiner G, Quinzii CM, Sun L, Yang G, Perez-Zoghbi JF, Licznerski P, Yang M, Jonas EA, Levy RJ. Inefficient thermogenic mitochondrial respiration due to futile proton leak in a mouse model of fragile X syndrome. *FASEB J*. 2020 Jun;34(6):7404-7426. Epub 2020 Apr 20. PMID: 32307754; PMCID: PMC7692004.
121. Grippo RM, Tang Q, Zhang Q, Chadwick SR, Gao Y, Altherr EB, Sipe L, Purohit AM, Purohit NM, Sunkara MD, Cios KJ, Sidikpramana M, Spano AJ, Campbell JN, Steele AD, Hirsh J, Deppmann CD, Wu M, Scott MM, Güler AD. Dopamine Signaling in the Suprachiasmatic Nucleus Enables Weight Gain Associated with Hedonic Feeding. *Curr Biol*. 2020 Jan 20;30(2):196-208.e8. Epub 2020 Jan 2. Erratum in: *Curr Biol*. 2020 Apr 6;30(7):1352-1355. PMID: 31902720; PMCID: PMC6981074.
122. Guan W, Cao JW, Liu LY, Zhao ZH, Fu Y, Yu YC. Eye opening differentially modulates inhibitory synaptic transmission in the developing visual cortex. *Elife*. 2017 Dec 11;6:e32337. PMID: 29227249; PMCID: PMC5746341.
123. Guidi R, Xu D, Choy DF, Ramalingam TR, Lee WP, Modrusan Z, Liang Y, Marsters S, Ashkenazi A, Huynh A, Mills J, Flanagan S, Hambro S, Nunez V, Leong L, Cook A, Tran TH, Austin CD, Cao Y, Clarke C, Panettieri RA Jr, Koziol-White C, Jester WF Jr, Wang F, Wilson MS. Steroid-induced fibroblast growth factors drive an epithelial-mesenchymal inflammatory

axis in severe asthma. *Sci Transl Med*. 2022 Apr 20;14(641):eabl8146. Epub 2022 Apr 20. PMID: 35442706; PMCID: PMC10301263.

124. Gusachenko I, Nylk J, Tello JA, Dholakia K. Multimode fibre based imaging for optically cleared samples. *Biomed Opt Express*. 2017 Oct 23;8(11):5179-5190. PMID: 29188112; PMCID: PMC5695962.
125. Haddad-Tóvulli R, Heide M, Zhou X, Blaess S, Alvarez-Bolado G. Mouse thalamic differentiation: gli-dependent pattern and gli-independent prepattern. *Front Neurosci*. 2012 Feb 22;6:27. PMID: 22371696; PMCID: PMC3283895.
126. Haddad-Tóvulli R, Szabó NE, Zhou X, Alvarez-Bolado G. Genetic manipulation of the mouse developing hypothalamus through in utero electroporation. *J Vis Exp*. 2013 Jul 24; (77):50412. PMID: 23912701; PMCID: PMC3846160.
127. Hage TA, Bosma-Moody A, Baker CA, Kratz MB, Campagnola L, Jarsky T, Zeng H, Murphy GJ. Synaptic connectivity to L2/3 of primary visual cortex measured by two-photon optogenetic stimulation. *Elife*. 2022 Jan 21;11:e711103. PMID: 35060903; PMCID: PMC8824465.
128. Hahn JD, Gao L, Boesen T, Gou L, Hintiryan H, Dong HW. Macroscale connections of the mouse lateral preoptic area and anterior lateral hypothalamic area. *J Comp Neurol*. 2022 Sep;530(13):2254-2285. Epub 2022 May 17. PMID: 35579973; PMCID: PMC9283274.
129. Harischandra DS, Kondru N, Martin DP, Kanthasamy A, Jin H, Anantharam V, Kanthasamy AG. Role of proteolytic activation of protein kinase C $\delta$  in the pathogenesis of prion disease. *Prion*. 2014 Jan-Feb;8(1):143-53. PMID: 24576946; PMCID: PMC4988799.
130. Hatter JA, Scott MM. Selective ablation of VIP interneurons in the rodent prefrontal cortex results in increased impulsivity. *PLoS One*. 2023 Jun 2;18(6):e0286209. PMID: 37267385; PMCID: PMC10237669.
131. Hausmann A, Felmy B, Kunz L, Kroon S, Berthold DL, Ganz G, Sandu I, Nakamura T, Zangger NS, Zhang Y, Dolowschiak T, Fattinger SA, Furter M, Müller-Hauser AA, Barthel M, Vlantis K, Wachsmuth L, Kisielow J, Tortola L, Heide D, Heikenwälder M, Oxenius A, Kopf M, Schroeder T, Pasparakis M, Sellin ME, Hardt WD. Intercrypt sentinel macrophages tune antibacterial NF- $\kappa$ B responses in gut epithelial cells via TNF. *J Exp Med*. 2021 Nov 1;218(11):e20210862. Epub 2021 Sep 16. PMID: 34529751; PMCID: PMC8480669.
132. Heras AF, Veerappan A, Silver RB, Emala CW, Worgall TS, Perez-Zoghbi J, Worgall S. Increasing Sphingolipid Synthesis Alleviates Airway Hyperreactivity. *Am J Respir Cell Mol Biol*. 2020 Nov;63(5):690-698. PMID: 32706610; PMCID: PMC7605160.



133. Herman AM, Huang L, Murphey DK, Garcia I, Arenkiel BR. Cell type-specific and time-dependent light exposure contribute to silencing in neurons expressing Channelrhodopsin-2. *Elife*. 2014;3:e01481. Epub 2014 Jan 28. PMID: 24473077; PMCID: PMC3904216.
134. Hettiarachchi SU, Li YH, Roy J, Zhang F, Puchulu-Campanella E, Lindeman SD, Srinivasarao M, Tsoyi K, Liang X, Ayoub EA, Nickerson-Nutter C, Rosas IO, Low PS. Targeted inhibition of PI3 kinase/mTOR specifically in fibrotic lung fibroblasts suppresses pulmonary fibrosis in experimental models. *Sci Transl Med*. 2020 Oct 28;12(567):eaay3724. PMID: 33115948.
135. Hintiryan H, Foster NN, Bowman I, Bay M, Song MY, Gou L, Yamashita S, Bienkowski MS, Zingg B, Zhu M, Yang XW, Shih JC, Toga AW, Dong HW. The mouse cortico-striatal projectome. *Nat Neurosci*. 2016 Aug;19(8):1100-14. Epub 2016 Jun 20. PMID: 27322419; PMCID: PMC5564682.
136. Hintiryan H, Bowman I, Johnson DL, Korobkova L, Zhu M, Khanjani N, Gou L, Gao L, Yamashita S, Bienkowski MS, Garcia L, Foster NN, Benavidez NL, Song MY, Lo D, Cotter KR, Becerra M, Aquino S, Cao C, Cabeen RP, Stanis J, Fayzullina M, Ustrell SA, Boesen T, Tugangui AJ, Zhang ZG, Peng B, Fanselow MS, Golshani P, Hahn JD, Wickersham IR, Ascoli GA, Zhang LI, Dong HW. Connectivity characterization of the mouse basolateral amygdalar complex. *Nat Commun*. 2021 May 17;12(1):2859. PMID: 34001873; PMCID: PMC8129205.
137. Hiorns JE, Bidan CM, Jensen OE, Gosens R, Kistemaker LE, Fredberg JJ, Butler JP, Krishnan R, Brook BS. Airway and Parenchymal Strains during Bronchoconstriction in the Precision Cut Lung Slice. *Front Physiol*. 2016 Jul 21;7:309. Erratum in: *Front Physiol*. 2017 Feb 28;8:117. PMID: 27559314; PMCID: PMC4989902.
138. Hodge RD, Miller JA, Novotny M, Kalmbach BE, Ting JT, Bakken TE, Aebermann BD, Barkan ER, Berkowitz-Cerasano ML, Cobbs C, Diez-Fuertes F, Ding SL, McCorrison J, Schork NJ, Shehata SI, Smith KA, Sunkin SM, Tran DN, Venepally P, Yanny AM, Steemers FJ, Phillips JW, Bernard A, Koch C, Lasken RS, Scheuermann RH, Lein ES. Transcriptomic evidence that von Economo neurons are regionally specialized extratelencephalic-projecting excitatory neurons. *Nat Commun*. 2020 Mar 3;11(1):1172. PMID: 32127543; PMCID: PMC7054400.
139. Hoffpauir BK, Kolson DR, Mathers PH, Spirou GA. Maturation of synaptic partners: functional phenotype and synaptic organization tuned in synchrony. *J Physiol*. 2010 Nov 15;588(Pt 22):4365-85. Epub 2010 Sep 20. PMID: 20855433; PMCID: PMC3008845.
140. Holcomb PS, Hoffpauir BK, Hoyson MC, Jackson DR, Deerinck TJ, Marrs GS, Dehoff M, Wu J, Ellisman MH, Spirou GA. Synaptic inputs compete during rapid formation of the calyx of Held: a new model system for neural development. *J Neurosci*. 2013 Aug 7;33(32):12954-69. PMID: 23926251; PMCID: PMC3735879.

141. Hori K, Tsujikawa S, Novakovic MM, Yamashita M, Prakriya M. Regulation of chemoconvulsant-induced seizures by store-operated Orai1 channels. *J Physiol*. 2020 Dec;598(23):5391-5409. Epub 2020 Sep 17. PMID: 32851638; PMCID: PMC7896430.
142. Howell RD, Dominguez-Lopez S, Ocañas SR, Freeman WM, Beckstead MJ. Female mice are resilient to age-related decline of substantia nigra dopamine neuron firing parameters. *Neurobiol Aging*. 2020 Nov;95:195-204. Epub 2020 Aug 3. PMID: 32846275; PMCID: PMC7606778.
143. Hsieh CY, Hong CT, Cramer KS. Deletion of EphA4 enhances deafferentation-induced ipsilateral sprouting in auditory brainstem projections. *J Comp Neurol*. 2007 Oct 10;504(5):508-18. PMID: 17702003.
144. Huang L, Garcia I, Jen HI, Arenkiel BR. Reciprocal connectivity between mitral cells and external plexiform layer interneurons in the mouse olfactory bulb. *Front Neural Circuits*. 2013 Mar 1;7:32. PMID: 23459611; PMCID: PMC3584718.
145. Huang L, Ung K, Garcia I, Quast KB, Cordiner K, Saggau P, Arenkiel BR. Task Learning Promotes Plasticity of Interneuron Connectivity Maps in the Olfactory Bulb. *J Neurosci*. 2016 Aug 24;36(34):8856-71. PMID: 27559168; PMCID: PMC4995301.
146. Huang W, Placzek AN, Viana Di Prisco G, Khatiwada S, Sidrauski C, Krnjević K, Walter P, Dani JA, Costa-Mattioli M. Translational control by eIF2 $\alpha$  phosphorylation regulates vulnerability to the synaptic and behavioral effects of cocaine. *Elife*. 2016 Mar 1;5:e12052. PMID: 26928234; PMCID: PMC4786430.
147. Hu KH, Eichorst JP, McGinnis CS, Patterson DM, Chow ED, Kersten K, Jameson SC, Gartner ZJ, Rao AA, Krummel MF. ZipSeq: barcoding for real-time mapping of single cell transcriptomes. *Nat Methods*. 2020 Aug;17(8):833-843. Epub 2020 Jul 6. PMID: 32632238; PMCID: PMC7891292.
148. Intskirveli I, Metherate R. Nicotinic neuromodulation in auditory cortex requires MAPK activation in thalamocortical and intracortical circuits. *Neurophysiol*. 2012 May;107(10):2782-93. Epub 2012 Feb 22. PMID: 22357798; PMCID: PMC3362282.
149. Jaafari N, Henson M, Graham J, Canepari M. Economic and simple system to combine single-spot photolysis and whole-field fluorescence imaging. *J Biomed Opt*. 2013 Jun;18(6):60505. PMID: 23764747; PMCID: PMC3894447.
150. Jaafari N, De Waard M, Canepari M. Imaging fast calcium currents beyond the limitations of electrode techniques. *Biophys J*. 2014 Sep 16;107(6):1280-8. PMID: 25229136; PMCID: PMC4167530.

151. Jaafari N, Marret E, Canepari M. Using simultaneous voltage and calcium imaging to study fast Ca(2+) channels. *Neurophotonics*. 2015 Apr;2(2):021010. Epub 2015 Feb 11. PMID: 26158000; PMCID: PMC4479034.
152. Jacob Berger A, Gigi E, Kupersmidt L, Meir Z, Gavert N, Zwang Y, Prior A, Gilad S, Harush U, Haviv I, Stemmer SM, Blum G, Merquiol E, Mardamshina M, Kaminski Strauss S, Friedlander G, Bar J, Kamer I, Reizel Y, Geiger T, Pilpel Y, Levin Y, Tanay A, Barzel B, Reuveni H, Straussman R. IRS1 phosphorylation underlies the non-stochastic probability of cancer cells to persist during EGFR inhibition therapy. *Nat Cancer*. 2021 Oct;2(10):1055-1070. Epub 2021 Oct 21. PMID: 35121883.
153. Jalan-Sakrikar N, Field JR, Klar R, Mattmann ME, Gregory KJ, Zamorano R, Engers DW, Bollinger SR, Weaver CD, Days EL, Lewis LM, Utley TJ, Hurtado M, Rigault D, Acher F, Walker AG, Melancon BJ, Wood MR, Lindsley CW, Conn PJ, Xiang Z, Hopkins CR, Niswender CM. Identification of positive allosteric modulators VU0155094 (ML397) and VU0422288 (ML396) reveals new insights into the biology of metabotropic glutamate receptor 7. *ACS Chem Neurosci*. 2014 Dec 17;5(12):1221-37. Epub 2014 Oct 9. PMID: 25225882; PMCID: PMC4306484.
154. Jameson H, Bateman R, Byrne P, Dyavanapalli J, Wang X, Jain V, Mendelowitz D. Oxytocin neuron activation prevents hypertension that occurs with chronic intermittent hypoxia/hypercapnia in rats. *Am J Physiol Heart Circ Physiol*. 2016 Jun 1;310(11):H1549-57. Epub 2016 Mar 25. PMID: 27016581; PMCID: PMC4935509.
155. Jhang J, Lee H, Kang MS, Lee HS, Park H, Han JH. Anterior cingulate cortex and its input to the basolateral amygdala control innate fear response. *Nat Commun*. 2018 Jul 16;9(1):2744. PMID: 30013065; PMCID: PMC6048069.
156. Jiang SN, Cao JW, Liu LY, Zhou Y, Shan GY, Fu YH, Shao YC, Yu YC. Sncg, Mybpc1, and Parm1 Classify subpopulations of VIP-expressing interneurons in layers 2/3 of the somatosensory cortex. *Cereb Cortex*. 2023 Apr 4;33(8):4293-4304. PMID: 36030380.
157. Jin H, Kanthasamy A, Harischandra DS, Kondru N, Ghosh A, Panicker N, Anantharam V, Rana A, Kanthasamy AG. Histone hyperacetylation up-regulates protein kinase C $\delta$  in dopaminergic neurons to induce cell death: relevance to epigenetic mechanisms of neurodegeneration in Parkinson disease. *J Biol Chem*. 2014 Dec 12;289(50):34743-67. Epub 2014 Oct 23. PMID: 25342743; PMCID: PMC4263877.
158. Joseph DJ, Liu C, Peng J, Liang G, Wei H. Isoflurane mediated neuropathological and cognitive impairments in the triple transgenic Alzheimer's mouse model are associated with hippocampal synaptic deficits in an age- dependent manner. *PLoS One*. 2019 Oct 10;14(10):e0223509. PMID: 31600350; PMCID: PMC6786564.
159. Kalmbach BE, Hodge RD, Jorstad NL, Owen S, de Frates R, Yanny AM, Dalley R, Mallory M, Graybuck LT, Radaelli C, Keene CD, Gwinn RP, Silbergeld DL, Cobbs C, Ojemann JG,

Ko AL, Patel AP, Ellenbogen RG, Bakken TE, Daigle TL, Dee N, Lee BR, McGraw M, Nicovich PR, Smith K, Sorensen SA, Tasic B, Zeng H, Koch C, Lein ES, Ting JT. Signature morpho-electric, transcriptomic, and dendritic properties of human layer 5 neocortical pyramidal neurons. *Neuron*. 2021 Sep 15;109(18):2914-2927.e5. PMID: 34534454; PMCID: PMC8570452.

160. Kamari Y, Cohen H, Shaish A, Bitzur R, Afek A, Shen S, Vainshtein A, Harats D. Characterisation of atherosclerotic lesions with scanning electron microscopy (SEM) of wet tissue. *Diab Vasc Dis Res*. 2008 Mar;5(1):44-7. PMID: 18398812.

161. Kaneko K, Osada T, Morse MA, Gwin WR, Ginzler JD, Snyder JC, Yang XY, Liu CX, Diniz MA, Bodoor K, Hughes PF, Haystead TA, Lyerly HK. Heat shock protein 90-targeted photodynamic therapy enables treatment of subcutaneous and visceral tumors. *Commun Biol*. 2020 May 8;3(1):226. PMID: 32385408; PMCID: PMC7210113.

162. Kasaragod DK, Aizawa H. Deep ultraviolet fluorescence microscopy of three-dimensional structures in the mouse brain. *Sci Rep*. 2023 May 26;13(1):8553. PMID: 37237102; PMCID: PMC10219975.

163. Kersten K, Hu KH, Combes AJ, Samad B, Harwin T, Ray A, Rao AA, Cai E, Marchuk K, Artchoker J, Courau T, Shi Q, Belk J, Satpathy AT, Krummel MF. Spatiotemporal co-dependency between macrophages and exhausted CD8<sup>+</sup> T cells in cancer. *Cancer Cell*. 2022 Jun 13;40(6):624-638.e9. Epub 2022 May 26. PMID: 35623342; PMCID: PMC9197962.

164. Kiffmeyer EA, Cosgrove JA, Siganos JK, Bien HE, Vipond JE, Vogt KR, Kloth AD. Deficits in cerebellum-dependent learning and cerebellar morphology in male and female BTBR autism model mice. *NeuroSci*. 2022 Dec;3(4):624-644. Epub 2022 Nov 9. PMID: 37366488; PMCID: PMC10292658.

165. Kim EJ, Zhang Z, Huang L, Ito-Cole T, Jacobs MW, Juavinett AL, Senturk G, Hu M, Ku M, Ecker JR, Callaway EM. Extraction of Distinct Neuronal Cell Types from within a Genetically Continuous Population. *Neuron*. 2020 Jul 22;107(2):274-282.e6. Epub 2020 May 11. PMID: 32396852; PMCID: PMC7381365.

166. Kim JH, Schaible N, Hall JK, Bartolák-Suki E, Deng Y, Herrmann J, Sonnenberg A, Behrsing HP, Lutchen KR, Krishnan R, Suki B. Multiscale stiffness of human emphysematous precision cut lung slices. *Sci Adv*. 2023 May 19;9(20):eadf2535. Epub 2023 May 19. PMID: 37205750; PMCID: PMC10198632.

167. Kim SY, Mongey R, Wang P, Rothery S, Gaboriau DCA, Hind M, Griffiths M, Dean CH. The acid injury and repair (AIR) model: A novel ex-vivo tool to understand lung repair. *Biomaterials*. 2021 Jan;267:120480. Epub 2020 Oct 21. PMID: 33157373.

168. Kim SY, Mongey R, Griffiths M, Hind M, Dean CH. An Ex Vivo Acid Injury and Repair (AIR) Model Using Precision-Cut Lung Slices to Understand Lung Injury and Repair. *Curr Protoc Mouse Biol.* 2020 Dec;10(4):e85. PMID: 33217226.
169. Kim S, Ma L, Yu CR. Requirement of calcium-activated chloride channels in the activation of mouse vomeronasal neurons. *Nat Commun.* 2011 Jun 21;2:365. PMID: 21694713; PMCID: PMC3156823.
170. Kim S, Ma L, Jensen KL, Kim MM, Bond CT, Adelman JP, Yu CR. Paradoxical contribution of SK3 and GIRK channels to the activation of mouse vomeronasal organ. *Nat Neurosci.* 2012 Sep;15(9):1236-44. Epub 2012 Jul 29. PMID: 22842147; PMCID: PMC3431453.
171. Kim S, Ma L, Unruh J, McKinney S, Yu CR. Intracellular chloride concentration of the mouse vomeronasal neuron. *BMC Neurosci.* 2015 Dec 15;16:90. PMID: 26667019; PMCID: PMC4678706.
172. Kim Y, Jang YN, Kim JY, Kim N, Noh S, Kim H, Queenan BN, Bellmore R, Mun JY, Park H, Rah JC, Pak DTS, Lee KJ. Microtubule-associated protein 2 mediates induction of long-term potentiation in hippocampal neurons. *FASEB J.* 2020 May;34(5):6965-6983. Epub 2020 Apr 1. PMID: 32237183.
173. Klar R, Walker AG, Ghose D, Grueter BA, Engers DW, Hopkins CR, Lindsley CW, Xiang Z, Conn PJ, Niswender CM. Activation of Metabotropic Glutamate Receptor 7 Is Required for Induction of Long-Term Potentiation at SC-CA1 Synapses in the Hippocampus. *J Neurosci.* 2015 May 13;35(19):7600-15. PMID: 25972184; PMCID: PMC4429158.
174. Kolb I, Landry CR, Yip MC, Lewallen CF, Stoy WA, Lee J, Felouzis A, Yang B, Boyden ES, Rozell CJ, Forest CR. PatcherBot: a single-cell electrophysiology robot for adherent cells and brain slices. *J Neural Eng.* 2019 Aug;16(4):046003. Epub 2019 Apr 10. PMID: 30970335; PMCID: PMC7144284.
175. Kole K, Celikel T. Neocortical Microdissection at Columnar and Laminar Resolution for Molecular Interrogation. *Curr Protoc Neurosci.* 2019 Jan;86(1):e55. Epub 2018 Oct 4. PMID: 30285322.
176. Kole K, Zhang Y, Jansen EJ, Brouns T, Bijlsma A, Calcini N, Yan X, Lantyer ADS, Celikel T. Assessing the utility of Magneto to control neuronal excitability in the somatosensory cortex. *Nat Neurosci.* 2020 Sep;23(9):1044-1046. Epub 2019 Sep 30. PMID: 31570861.
177. Kolson DR, Wan J, Wu J, Dehoff M, Brandebura AN, Qian J, Mathers PH, Spirou GA. Temporal patterns of gene expression during calyx of held development. *Dev Neurobiol.* 2016 Feb;76(2):166-89. Epub 2015 Jul 8. PMID: 26014473; PMCID: PMC4851834.

178. Kondru N, Manne S, Greenlee J, West Greenlee H, Anantharam V, Halbur P, Kanthasamy A, Kanthasamy A. Integrated Organotypic Slice Cultures and RT-QuIC (OSCAR) Assay: Implications for Translational Discovery in Protein Misfolding Diseases. *Sci Rep.* 2017 Feb 24;7:43155. PMID: 28233859; PMCID: PMC5324099.
179. Kondru N, Manne S, Kokemuller R, Greenlee J, Greenlee MHW, Nichols T, Kong Q, Anantharam V, Kanthasamy A, Halbur P, Kanthasamy AG. An Ex Vivo Brain Slice Culture Model of Chronic Wasting Disease: Implications for Disease Pathogenesis and Therapeutic Development. *Sci Rep.* 2020 May 6;10(1):7640. PMID: 32376941; PMCID: PMC7203233.
180. Koveal D, Rosen PC, Meyer DJ, Díaz-García CM, Wang Y, Cai LH, Chou PJ, Weitz DA, Yellen G. A high-throughput multiparameter screen for accelerated development and optimization of soluble genetically encoded fluorescent biosensors. *Nat Commun.* 2022 May 25;13(1):2919. PMID: 35614105; PMCID: PMC9133083.
181. Ko J, Wilkovitsch M, Oh J, Kohler RH, Bolli E, Pittet MJ, Vinegoni C, Sykes DB, Mikula H, Weissleder R, Carlson JCT. Spatiotemporal multiplexed immunofluorescence imaging of living cells and tissues with bioorthogonal cycling of fluorescent probes. *Nat Biotechnol.* 2022 Nov;40(11):1654-1662. Epub 2022 Jun 2. PMID: 35654978; PMCID: PMC9669087.
182. Krishnan B, Kaye R, Taglialatela G. Elevated phospholipase D isoform 1 in Alzheimer's disease patients' hippocampus: Relevance to synaptic dysfunction and memory deficits. *Alzheimers Dement (N Y).* 2018 Feb 14;4:89-102. PMID: 29560412; PMCID: PMC5857521.
183. Krishnan B, Sallam HS, Tumurbataar B, Saieva S, Baymon D, Tuvdendorj D, Micci MA, Abate N, Taglialatela G. Amelioration of hippocampal dysfunction by adipose tissue-targeted stem cell transplantation in a mouse model of type 2 diabetes. *J Neurochem.* 2020 Apr;153(1):51-62. Epub 2020 Jan 19. PMID: 31730234.
184. Krishnan B, Natarajan C, Bourne KZ, Alikhani L, Wang J, Sowa A, Groen K, Perry B, Dickstein DL, Baulch JE, Limoli CL, Britten RA. Chronic Low Dose Neutron Exposure Results in Altered Neurotransmission Properties of the Hippocampus-Prefrontal Cortex Axis in Both Mice and Rats. *Int J Mol Sci.* 2021 Apr 1;22(7):3668. PMID: 33915974; PMCID: PMC8036585.
185. Kubota J, Mikami Y, Kanemaru K, Sekiya H, Okubo Y, Iino M. Whisker experience-dependent mGluR signaling maintains synaptic strength in the mouse adolescent cortex. *Eur J Neurosci.* 2016 Aug;44(3):2004-14. Epub 2016 Jun 13. PMID: 27225340.
186. Kuo CS, Krasnow MA. Formation of a Neurosensory Organ by Epithelial Cell Slithering. *Cell.* 2015 Oct 8;163(2):394-405. Epub 2015 Oct 1. PMID: 26435104; PMCID: PMC4597318.

187. Laing BT, Li P, Schmidt CA, Bunner W, Yuan Y, Landry T, Prete A, McClung JM, Huang H. AgRP/NPY Neuron Excitability Is Modulated by Metabotropic Glutamate Receptor 1 During Fasting. *Front Cell Neurosci.* 2018 Sep 3;12:276. PMID: 30233321; PMCID: PMC6129575.
188. Lam M, Lamanna E, Organ L, Donovan C, Bourke JE. Perspectives on precision cut lung slices-powerful tools for investigation of mechanisms and therapeutic targets in lung diseases. *Front Pharmacol.* 2023 May 16;14:1162889. PMID: 37261291; PMCID: PMC10228656.
189. Lazrak A, Song W, Yu Z, Zhang S, Nellore A, Hoopes CW, Woodworth BA, Matalon S. Low molecular weight hyaluronan inhibits lung epithelial ion channels by activating the calcium-sensing receptor. *Matrix Biol.* 2023 Feb;116:67-84. Epub 2023 Feb 8. PMID: 36758905; PMCID: PMC10012407.
190. Lee JH, Kim JY, Noh S, Lee H, Lee SY, Mun JY, Park H, Chung WS. Astrocytes phagocytose adult hippocampal synapses for circuit homeostasis. *Nature.* 2021 Feb;590(7847):612-617. Epub 2020 Dec 23. PMID: 33361813.
191. Lewis TR, Shores CR, Cady MA, Hao Y, Arshavsky VY, Burns ME. The F220C and F45L rhodopsin mutations identified in retinitis pigmentosa patients do not cause pathology in mice. *Sci Rep.* 2020 May 5;10(1):7538. PMID: 32371886; PMCID: PMC7200662.
192. Libovner Y, Fariborzi M, Tabba D, Ozgur A, Jafar T, Lur G. Repeated Exposure to Multiple Concurrent Stresses Induce Circuit Specific Loss of Inputs to the Posterior Parietal Cortex. *J Neurosci.* 2020 Feb 26;40(9):1849-1861. Epub 2020 Jan 16. PMID: 31949108; PMCID: PMC7046453.
193. Linghu C, Johnson SL, Valdes PA, Shemesh OA, Park WM, Park D, Piatkevich KD, Wassie AT, Liu Y, An B, Barnes SA, Celiker OT, Yao CC, Yu CJ, Wang R, Adamala KP, Bear MF, Keating AE, Boyden ES. Spatial Multiplexing of Fluorescent Reporters for Imaging Signaling Network Dynamics. *Cell.* 2020 Dec 10;183(6):1682-1698.e24. Epub 2020 Nov 23. PMID: 33232692; PMCID: PMC7771521.
194. Ling B, Lee J, Maresca D, Lee-Gosselin A, Malounda D, Swift MB, Shapiro MG. Biomolecular Ultrasound Imaging of Phagolysosomal Function. *ACS Nano.* 2020 Sep 22;14(9):12210-12221. Epub 2020 Sep 14. PMID: 32902951; PMCID: PMC7685203.
195. Lin X, Fisher NM, Dogra S, Senter RK, Reed CW, Kalbfleisch JJ, Lindsley CW, Asher WB, Xiang Z, Niswender CM, Javitch JA. Differential activity of mGlu<sub>7</sub> allosteric modulators provides evidence for mGlu<sub>7/8</sub> heterodimers at hippocampal Schaffer collateral-CA1 synapses. *J Biol Chem.* 2022 Oct;298(10):102458. Epub 2022 Sep 5. PMID: 36063995; PMCID: PMC9531177.

196. Liu CH, Yang J, Ren JQ, Liu CM, You Z, Liu PK. MRI reveals differential effects of amphetamine exposure on neuroglia in vivo. *FASEB J.* 2013 Feb;27(2):712-24. Epub 2012 Nov 12. PMID: 23150521; PMCID: PMC3545538.
197. Liu H, Caballero-Florán RN, Hergenreder T, Yang T, Hull JM, Pan G, Li R, Veling MW, Isom LL, Kwan KY, Huang ZJ, Fuerst PG, Jenkins PM, Ye B. DSCAM gene triplication causes excessive GABAergic synapses in the neocortex in Down syndrome mouse models. *PLoS Biol.* 2023 Apr 20;21(4):e3002078. PMID: 37079499; PMCID: PMC10118173.
198. Liu L, Yang C, Lavayen BP, Tishko RJ, Larochelle J, Candelario-Jalil E. Targeted BRD4 protein degradation by dBET1 ameliorates acute ischemic brain injury and improves functional outcomes associated with reduced neuroinflammation and oxidative stress and preservation of blood-brain barrier integrity. *J Neuroinflammation.* 2022 Jun 27;19(1):168. PMID: 35761277; PMCID: PMC9237998.
199. Liu P, Dodson M, Li H, Schmidlin CJ, Shakya A, Wei Y, Garcia JGN, Chapman E, Kiela PR, Zhang QY, White E, Ding X, Ooi A, Zhang DD. Non-canonical NRF2 activation promotes a pro-diabetic shift in hepatic glucose metabolism. *Mol Metab.* 2021 Sep;51:101243. Epub 2021 Apr 30. PMID: 33933676; PMCID: PMC8164084.
200. Liu P, Anandhan A, Chen J, Shakya A, Dodson M, Ooi A, Chapman E, White E, Garcia JG, Zhang DD. Decreased autophagosome biogenesis, reduced NRF2, and enhanced ferroptotic cell death are underlying molecular mechanisms of non-alcoholic fatty liver disease. *Redox Biol.* 2023 Feb;59:102570. Epub 2022 Dec 5. PMID: 36495698; PMCID: PMC9731892.
201. Liu YT, Sliter DA, Shammass MK, Huang X, Wang C, Calvelli H, Maric DS, Narendra DP. Mt-Keima detects PINK1-PRKN mitophagy *in vivo* with greater sensitivity than mito-QC. *Autophagy.* 2021 Nov;17(11):3753-3762. Epub 2021 Mar 8. PMID: 33685343; PMCID: PMC8632312.
202. Liu Y, Du S, Lv L, Lei B, Shi W, Tang Y, Wang L, Zhong Y. Hippocampal Activation of Rac1 Regulates the Forgetting of Object Recognition Memory. *Curr Biol.* 2016 Sep 12;26(17):2351-7. Epub 2016 Sep 1. PMID: 27593377.
203. Liu Y, Lv L, Wang L, Zhong Y. Social Isolation Induces Rac1-Dependent Forgetting of Social Memory. *Cell Rep.* 2018 Oct 9;25(2):288-295.e3. PMID: 30304669.
204. Liu Y, Wang HY, Zhou L, Su Y, Shen WC. Biodistribution, activation, and retention of proinsulin-transferrin fusion protein in the liver: Mechanism of liver-targeting as an insulin prodrug. *J Control Release.* 2018 Apr 10;275:186-191. Epub 2018 Feb 20. PMID: 29471040.



205. Li G, Cohen JA, Martines C, Ram-Mohan S, Brain JD, Krishnan R, Ai X, Bai Y. Preserving Airway Smooth Muscle Contraction in Precision-Cut Lung Slices. *Sci Rep.* 2020 Apr 15;10(1):6480. PMID: 32296115; PMCID: PMC7160136.
206. Li L, Durand-de Cuttoli R, Aubry AV, Burnett CJ, Cathomas F, Parise LF, Chan KL, Morel C, Yuan C, Shimo Y, Lin HY, Wang J, Russo SJ. Social trauma engages lateral septum circuitry to occlude social reward. *Nature.* 2023 Jan;613(7945):696-703. Epub 2022 Nov 30. PMID: 36450985; PMCID: PMC9876792.
207. Li S, Mwakalundwa G, Skinner PJ. In Situ MHC-tetramer Staining and Quantitative Analysis to Determine the Location, Abundance, and Phenotype of Antigen-specific CD8 T Cells in Tissues. *J Vis Exp.* 2017 Sep 22;(127):56130. PMID: 28994787; PMCID: PMC5752327.
208. Li X, Kang L, Zhang Y, Wong TTW. High-speed label-free ultraviolet photoacoustic microscopy for histology-like imaging of unprocessed biological tissues. *Opt Lett.* 2020 Oct 1;45(19):5401-5404. PMID: 33001904.
209. Li Z, Solomonidis EG, Berkeley B, Tang MNH, Stewart KR, Perez-Vicencio D, McCracken IR, Spiroski AM, Gray GA, Barton AK, Sellers SL, Riley PR, Baker AH, Brittan M. Multi-species meta-analysis identifies transcriptional signatures associated with cardiac endothelial responses in the ischaemic heart. *Cardiovasc Res.* 2023 Mar 17;119(1):136-154. PMID: 36082978; PMCID: PMC10022865.
210. Lloyd JT, Martini A, McDouall A, Sood R, Freestone PS, Mercuri NB, Lipski J. Electrophysiological Characterization of Novel Effects of the Uptake-2 Blocker Decynium-22 (D-22) on Dopaminergic Neurons in the Substantia Nigra Pars Compacta. *Neuroscience.* 2019 Jan 1;396:154-165. Epub 2018 Nov 14. PMID: 30447392.
211. Lovelace JW, Corches A, Vieira PA, Hiroto AS, Mackie K, Korzus E. An animal model of female adolescent cannabinoid exposure elicits a long-lasting deficit in presynaptic long-term plasticity. *Neuropharmacology.* 2015 Dec;99:242-55. Epub 2015 May 13. PMID: 25979486; PMCID: PMC4644105.
212. Luković E, Perez-Zoghbi JF, Zhang Y, Zhu Y, Sang S, Emala CW. Ginger metabolites and metabolite-inspired synthetic products modulate intracellular calcium and relax airway smooth muscle. *Am J Physiol Lung Cell Mol Physiol.* 2021 Nov 1;321(5):L912-L924. Epub 2021 Sep 22. PMID: 34549600; PMCID: PMC8616613.
213. Lu P, Chen J, Zhang C, Saur D, Baer CE, Lifshitz LM, Fogarty KE, ZhuGe R. Oscillating calcium signals in smooth muscle cells underlie the persistent basal tone of internal anal sphincter. *J Cell Physiol.* 2021 Aug;236(8):5937-5952. Epub 2021 Jan 16. PMID: 33452672; PMCID: PMC8132622.

214. Lu P, ElMallah MK, Liu Z, Wu C, Chen J, Lifshitz LM, ZhuGe R. Genetic deletion of the Tas2r143/Tas2r135/Tas2r126 cluster reveals that TAS2Rs may not mediate bitter tastant-induced bronchodilation. *J Cell Physiol.* 2021 Sep;236(9):6407-6423. Epub 2021 Feb 8. PMID: 33559206; PMCID: PMC8223514.
215. Lu RA, Zeki AA, Ram-Mohan S, Nguyen N, Bai Y, Chmiel K, Pecic S, Ai X, Krishnan R, Ghosh CC. Inhibiting Airway Smooth Muscle Contraction Using Pitavastatin: A Role for the Mevalonate Pathway in Regulating Cytoskeletal Proteins. *Front Pharmacol.* 2020 May 6;11:469. PMID: 32435188; PMCID: PMC7218099.
216. Lv L, Liu Y, Xie J, Wu Y, Zhao J, Li Q, Zhong Y. Interplay between  $\alpha$ 2-chimaerin and Rac1 activity determines dynamic maintenance of long-term memory. *Nat Commun.* 2019 Nov 22;10(1):5313. PMID: 31757963; PMCID: PMC6876637.
217. Lyons-Cohen MR, Thomas SY, Cook DN, Nakano H. Precision-cut Mouse Lung Slices to Visualize Live Pulmonary Dendritic Cells. *J Vis Exp.* 2017 Apr 5;(122):55465. PMID: 28448013; PMCID: PMC5512285.
218. Lyons-Cohen MR, Nakano H, Thomas SY, Cook DN. Imaging Precision-Cut Lung Slices to Visualize Leukocyte Localization and Trafficking. *Methods Mol Biol.* 2018;1799:237-246. PMID: 29956156; PMCID: PMC6773260.
219. Maciąg F, Majewski Ł, Boguszewski PM, Gupta RK, Wasilewska I, Wojtaś B, Kuznicki J. Behavioral and electrophysiological changes in female mice overexpressing ORAI1 in neurons. *Biochim Biophys Acta Mol Cell Res.* 2019 Jul;1866(7):1137-1150. Epub 2019 Jan 16. PMID: 30659848.
220. Majewski L, Maciąg F, Boguszewski PM, Kuznicki J. Transgenic Mice Overexpressing Human *STIM2* and *ORAI1* in Neurons Exhibit Changes in Behavior and Calcium Homeostasis but Show No Signs of Neurodegeneration. *Int J Mol Sci.* 2020 Jan 28;21(3):842. PMID: 32012922; PMCID: PMC7037127.
221. Mamani S, Shi L, Ahmed T, Karnik R, Rodríguez-Contreras A, Nolan D, Alfano R. Transmission of classically entangled beams through mouse brain tissue. *J Biophotonics.* 2018 Dec;11(12):e201800096. Epub 2018 Sep 5. PMID: 30027681.
222. Mancía Leon WR, Spatazza J, Rakela B, Chatterjee A, Pande V, Maniatis T, Hasenstaub AR, Stryker MP, Alvarez-Buylla A. Clustered gamma-protocadherins regulate cortical interneuron programmed cell death. *Elife.* 2020 Jul 7;9:e55374. PMID: 32633719; PMCID: PMC7373431.
223. Maneshi MM, Toth AB, Ishii T, Hori K, Tsujikawa S, Shum AK, Shrestha N, Yamashita M, Miller RJ, Radulovic J, Swanson GT, Prakriya M. Orai1 Channels Are Essential for Amplification of Glutamate-Evoked  $Ca^{2+}$  Signals in Dendritic Spines to

Regulate Working and Associative Memory. *Cell Rep.* 2020 Dec 1;33(9):108464. Erratum in: *Cell Rep.* 2021 Mar 30;34(13):108911. PMID: 33264616; PMCID: PMC7832685.

224. Marcatti M, Fracassi A, Montalbano M, Natarajan C, Krishnan B, Kaye R, Tagliavola G. A $\beta$ /tau oligomer interplay at human synapses supports shifting therapeutic targets for Alzheimer's disease. *Cell Mol Life Sci.* 2022 Apr 4;79(4):222. PMID: 35377002; PMCID: PMC8979934.
225. Marrs GS, Spirou GA. Embryonic assembly of auditory circuits: spiral ganglion and brainstem. *J Physiol.* 2012 May 15;590(10):2391-408. Epub 2012 Feb 27. PMID: 22371481; PMCID: PMC3424760.
226. Mason HD, Johnson AM, Mihelson NA, Mastorakos P, McGavern DB. Glia limitans superficialis oxidation and breakdown promote cortical cell death after repetitive head injury. *JCI Insight.* 2021 Oct 8;6(19):e149229. PMID: 34428178; PMCID: PMC8525634.
227. Mason H, Rai G, Kozyr A, De Jonge N, Gliniewicz E, Berg LJ, Wald G, Dorrier C, Henderson MJ, Zakharov A, Dyson T, Audley J, Pettinato AM, Padilha EC, Shah P, Xu X, Leto TL, Simeonov A, Zarembek KA, McGavern DB, Gallin JI. Development of an improved and specific inhibitor of NADPH oxidase 2 to treat traumatic brain injury. *Redox Biol.* 2023 Apr;60:102611. Epub 2023 Jan 18. PMID: 36709665; PMCID: PMC9894920.
228. Massey N, Shrestha D, Bhat SM, Kondru N, Charli A, Karriker LA, Kanthasamy AG, Charavaryamath C. Organic dust-induced mitochondrial dysfunction could be targeted via cGAS-STING or cytoplasmic NOX-2 inhibition using microglial cells and brain slice culture models. *Cell Tissue Res.* 2021 May;384(2):465-486. Epub 2021 Mar 9. PMID: 33687557; PMCID: PMC8154696.
229. Mastorakos P, Mihelson N, Luby M, Burks SR, Johnson K, Hsia AW, Witko J, Frank JA, Latour L, McGavern DB. Temporally distinct myeloid cell responses mediate damage and repair after cerebrovascular injury. *Nat Neurosci.* 2021 Feb;24(2):245-258. Epub 2021 Jan 18. PMID: 33462481; PMCID: PMC7854523.
230. Mastorakos P, Russo MV, Zhou T, Johnson K, McGavern DB. Antimicrobial immunity impedes CNS vascular repair following brain injury. *Nat Immunol.* 2021 Oct;22(10):1280-1293. Epub 2021 Sep 23. PMID: 34556874; PMCID: PMC8488012.
231. Mathis VP, Williams M, Fillinger C, Kenny PJ. Networks of habenula- projecting cortical neurons regulate cocaine seeking. *Sci Adv.* 2021 Nov 5;7(45):eabj2225. Epub 2021 Nov 5. PMID: 34739312; PMCID: PMC8570600.
232. Mayer FP, Iwamoto H, Hahn MK, Grumbar GJ, Stewart A, Li Y, Blakely RD. There's no place like home? Return to the home cage triggers dopamine release in the mouse nucleus

accumbens. *Neurochem Int.* 2021 Jan;142:104894. Epub 2020 Nov 5. PMID: 33161093; PMCID: PMC7779706.

233. Ma L, Haga-Yamanaka S, Yu QE, Qiu Q, Kim S, Yu CR. Imaging neuronal responses in slice preparations of vomeronasal organ expressing a genetically encoded calcium sensor. *J Vis Exp.* 2011 Dec 6;(58):3404. PMID: 22157702; PMCID: PMC3369649.
234. Meyer DJ, Díaz-García CM, Nathwani N, Rahman M, Yellen G. The Na<sup>+</sup>/K<sup>+</sup> pump dominates control of glycolysis in hippocampal dentate granule cells. *Elife.* 2022 Oct 12;11:e81645. PMID: 36222651; PMCID: PMC9592084.
235. Micci MA, Krishnan B, Bishop E, Zhang WR, Guptarak J, Grant A, Zolochovska O, Tumurbaatar B, Franklin W, Marino C, Widen SG, Luthra A, Kernie SG, Tagliatela G. Hippocampal stem cells promotes synaptic resistance to the dysfunctional impact of amyloid beta oligomers via secreted exosomes. *Mol Neurodegener.* 2019 Jun 14;14(1):25. PMID: 31200742; PMCID: PMC6570890.
236. Michalaki C, Dean C, Johansson C. The Use of Precision-Cut Lung Slices for Studying Innate Immunity to Viral Infections. *Curr Protoc.* 2022 Aug;2(8):e505. PMID: 35938685; PMCID: PMC9545600.
237. Micheva KD, Kiraly M, Perez MM, Madison DV. Conduction Velocity Along the Local Axons of Parvalbumin Interneurons Correlates With the Degree of Axonal Myelination. *Cereb Cortex.* 2021 Jun 10;31(7):3374-3392. PMID: 33704414; PMCID: PMC8196249.
238. Micheva KD, Kiraly M, Perez MM, Madison DV. Extensive Structural Remodeling of the Axonal Arbors of Parvalbumin Basket Cells during Development in Mouse Neocortex. *J Neurosci.* 2021 Nov 10;41(45):9326-9339. Epub 2021 Sep 28. PMID: 34583957; PMCID: PMC8580153.
239. Mich JK, Graybuck LT, Hess EE, Mahoney JT, Kojima Y, Ding Y, Somasundaram S, Miller JA, Kalmbach BE, Radaelli C, Gore BB, Weed N, Omstead V, Bishaw Y, Shapovalova NV, Martinez RA, Fong O, Yao S, Mortrud M, Chong P, Loftus L, Bertagnolli D, Goldy J, Casper T, Dee N, Opitz-Araya X, Cetin A, Smith KA, Gwinn RP, Cobbs C, Ko AL, Ojemann JG, Keene CD, Silbergeld DL, Sunkin SM, Gradinaru V, Horwitz GD, Zeng H, Tasic B, Lein ES, Ting JT, Levi BP. Functional enhancer elements drive subclass-selective expression from mouse to primate neocortex. *Cell Rep.* 2021 Mar 30;34(13):108754. PMID: 33789096; PMCID: PMC8163032.
240. Mikami M, Perez-Zoghbi JF, Zhang Y, Emala CW Sr. Attenuation of murine and human airway contraction by a peptide fragment of the cytoskeleton regulatory protein gelsolin. *Am J Physiol Lung Cell Mol Physiol.* 2019 Jan 1;316(1):L105-L113. Epub 2018 Nov 8. PMID: 30407863; PMCID: PMC6383498.

241. Milde S, van Tartwijk FW, Vilalta A, Hornik TC, Dundee JM, Puigdellívol M, Brown GC. Inflammatory neuronal loss in the substantia nigra induced by systemic lipopolysaccharide is prevented by knockout of the P2Y<sub>6</sub> receptor in mice. *J Neuroinflammation*. 2021 Oct 11;18(1):225. PMID: 34635136; PMCID: PMC8504061.
242. Milde S, Brown GC. Knockout of the P2Y<sub>6</sub> Receptor Prevents Peri-Infarct Neuronal Loss after Transient, Focal Ischemia in Mouse Brain. *Int J Mol Sci*. 2022 Feb 19;23(4):2304. PMID: 35216419; PMCID: PMC8879728.
243. Miller OH, Bruns A, Ben Ammar I, Mueggler T, Hall BJ. Synaptic Regulation of a Thalamocortical Circuit Controls Depression-Related Behavior. *Cell Rep*. 2017 Aug 22;20(8):1867-1880. PMID: 28834750.
244. Min JY, Park S, Cho J, Huh Y. The anterior insular cortex processes social recognition memory. *Sci Rep*. 2023 Jul 5;13(1):10853. PMID: 37407809; PMCID: PMC10322941.
245. Moehle MS, Pancani T, Byun N, Yohn SE, Wilson GH 3rd, Dickerson JW, Remke DH, Xiang Z, Niswender CM, Wess J, Jones CK, Lindsley CW, Rook JM, Conn PJ. Cholinergic Projections to the Substantia Nigra Pars Reticulata Inhibit Dopamine Modulation of Basal Ganglia through the M<sub>4</sub> Muscarinic Receptor. *Neuron*. 2017 Dec 20;96(6):1358-1372.e4. PMID: 29268098; PMCID: PMC5753765.
246. Mondoloni S, Nguyen C, Vicq E, Ciscato M, Jehl J, Durand-de Cuttoli R, Torquet N, Tolu S, Pons S, Maskos U, Marti F, Faure P, Mouro A. Prolonged nicotine exposure reduces aversion to the drug in mice by altering nicotinic transmission in the interpeduncular nucleus. *Elife*. 2023 May 30;12:e80767. PMID: 37249215; PMCID: PMC10259488.
247. Mukherjee S, Trice J, Shinde P, Willis RE, Pressley TA, Perez-Zoghbi JF. Ca<sup>2+</sup> oscillations, Ca<sup>2+</sup> sensitization, and contraction activated by protein kinase C in small airway smooth muscle. *J Gen Physiol*. 2013 Feb;141(2):165-78. PMID: 23359281; PMCID: PMC3557311.
248. Naffaa MM, Khan RR, Kuo CT, Yin HH. Cortical regulation of neurogenesis and cell proliferation in the ventral subventricular zone. *Cell Rep*. 2023 Jul 25;42(7):112783. Epub 2023 Jul 8. PMID: 37422764.
249. Nakano H, Lyons-Cohen MR, Whitehead GS, Nakano K, Cook DN. Distinct functions of CXCR4, CCR2, and CX3CR1 direct dendritic cell precursors from the bone marrow to the lung. *J Leukoc Biol*. 2017 May;101(5):1143-1153. Epub 2017 Feb 1. PMID: 28148720; PMCID: PMC5380375.
250. Nakano Y, Wiechert S, Bánfi B. Overlapping Activities of Two Neuronal Splicing Factors Switch the GABA Effect from Excitatory to Inhibitory by Regulating REST. *Cell Rep*. 2019 Apr 16;27(3):860-871.e8. PMID: 30995482; PMCID: PMC6556397.

251. Natarajan C, Cook C, Ramaswamy K, Krishnan B. Phospholipase D1 Attenuation Therapeutics Promotes Resilience against Synaptotoxicity in 12-Month-Old 3xTg-AD Mouse Model of Progressive Neurodegeneration. *Int J Mol Sci.* 2023 Feb 8;24(4):3372. PMID: 36834781; PMCID: PMC9967100.
252. Na D, Zhang J, Beaulac HJ, Piekna-Przybylska D, Nicklas PR, Kiernan AE, White PM. Increased central auditory gain in 5xFAD Alzheimer's disease mice as an early biomarker candidate for Alzheimer's disease diagnosis. *Front Neurosci.* 2023 May 26;17:1106570. Erratum in: *Front Neurosci.* 2023 Jul 18;17:1250244. PMID: 37304021; PMCID: PMC10250613.
253. Nelson AD, Caballero-Florán RN, Rodríguez Díaz JC, Hull JM, Yuan Y, Li J, Chen K, Walder KK, Lopez-Santiago LF, Bennett V, McInnis MG, Isom LL, Wang C, Zhang M, Jones KS, Jenkins PM. Ankyrin-G regulates forebrain connectivity and network synchronization via interaction with GABARAP. *Mol Psychiatry.* 2020 Nov;25(11):2800-2817. Epub 2018 Nov 30. Erratum in: *Mol Psychiatry.* 2019 Jan 31;: PMID: 30504823; PMCID: PMC6542726.
254. Nguyen C, Mondoloni S, Le Borgne T, Centeno I, Come M, Jehl J, Solié C, Reynolds LM, Durand-de Cuttoli R, Tolu S, Valverde S, Didienne S, Hanneke B, Fiancette JF, Pons S, Maskos U, Deroche-Gamonet V, Dalkara D, Hardelin JP, Mourot A, Marti F, Faure P. Nicotine inhibits the VTA-to-amygdala dopamine pathway to promote anxiety. *Neuron.* 2021 Aug 18;109(16):2604-2615.e9. Epub 2021 Jul 8. PMID: 34242565.
255. Nia HT, Datta M, Seano G, Huang P, Munn LL, Jain RK. Quantifying solid stress and elastic energy from excised or in situ tumors. *Nat Protoc.* 2018 May;13(5):1091-1105. Epub 2018 Apr 19. PMID: 29674756; PMCID: PMC6546092.
256. Nickl V, Schulz E, Salvador E, Trautmann L, Diener L, Kessler AF, Monoranu CM, Dehghani F, Ernestus RI, Löhr M, Hagemann C. Glioblastoma-Derived Three-Dimensional Ex Vivo Models to Evaluate Effects and Efficacy of Tumor Treating Fields (TTFields). *Cancers (Basel).* 2022 Oct 22;14(21):5177. PMID: 36358594; PMCID: PMC9658171.
257. Norton ES, Whaley LA, Ulloa-Navas MJ, García-Tárraga P, Meneses KM, Lara-Velazquez M, Zarco N, Carrano A, Quiñones-Hinojosa A, García-Verdugo JM, Guerrero-Cázares H. Glioblastoma disrupts the ependymal wall and extracellular matrix structures of the subventricular zone. *Fluids Barriers CNS.* 2022 Jul 11;19(1):58. PMID: 35821139; PMCID: PMC9277938.
258. Nwachukwu KN, Evans WA, Sides TR, Trevisani CP, Davis A, Marshall SA. Chemogenetic manipulation of astrocytic signaling in the basolateral amygdala reduces binge-like alcohol consumption in male mice. *J Neurosci Res.* 2021 Aug;99(8):1957-1972. Epub 2021 Apr 12. PMID: 33844860; PMCID: PMC9012956.

259. Nylk J, McCluskey K, Aggarwal S, Tello JA, Dholakia K. Enhancement of image quality and imaging depth with Airy light-sheet microscopy in cleared and non-cleared neural tissue. *Biomed Opt Express*. 2016 Sep 14;7(10):4021-4033. PMID: 27867712; PMCID: PMC5102539.
260. Nylk J, McCluskey K, Preciado MA, Mazilu M, Yang Z, Gunn-Moore FJ, Aggarwal S, Tello JA, Ferrier DEK, Dholakia K. Light-sheet microscopy with attenuation-compensated propagation-invariant beams. *Sci Adv*. 2018 Apr 6;4(4):eaar4817. PMID: 29740614; PMCID: PMC5938225.
261. Ozgur A, Park SB, Flores AY, Oijala M, Lur G. A Comprehensive, Affordable, Open-Source Hardware-Software Solution for Flexible Implementation of Complex Behaviors in Head-Fixed Mice. *eNeuro*. 2023 Jun 27;10(6):ENEURO.0018-23.2023. PMID: 37286343; PMCID: PMC10306125.
262. Paletzki RF, Gerfen CR. Basic Neuroanatomical Methods. *Curr Protoc Neurosci*. 2019 Dec;90(1):e84. PMID: 31756028.
263. Papaleo F, Yang F, Paterson C, Palumbo S, Carr GV, Wang Y, Floyd K, Huang W, Thomas CJ, Chen J, Weinberger DR, Law AJ. Behavioral, Neurophysiological, and Synaptic Impairment in a Transgenic Neuregulin1 (NRG1-IV) Murine Schizophrenia Model. *J Neurosci*. 2016 Apr 27;36(17):4859-75. PMID: 27122041; PMCID: PMC4846677.
264. Parlakgöl G, Arruda AP, Pang S, Cagampan E, Min N, Güney E, Lee GY, Inouye K, Hess HF, Xu CS, Hotamışlıgil GS. Regulation of liver subcellular architecture controls metabolic homeostasis. *Nature*. 2022 Mar;603(7902):736-742. Epub 2022 Mar 9. PMID: 35264794; PMCID: PMC9014868.
265. Pathania M, De Jay N, Maestro N, Harutyunyan AS, Nitarska J, Pahlavan P, Henderson S, Mikael LG, Richard-Londt A, Zhang Y, Costa JR, Hébert S, Khazaei S, Ibrahim NS, Herrero J, Riccio A, Albrecht S, Ketteler R, Brandner S, Kleinman CL, Jabado N, Salomoni P. H3.3<sup>K27M</sup> Cooperates with Trp53 Loss and PDGFRA Gain in Mouse Embryonic Neural Progenitor Cells to Induce Invasive High- Grade Gliomas. *Cancer Cell*. 2017 Nov 13;32(5):684-700.e9. Epub 2017 Oct 26. PMID: 29107533; PMCID: PMC5687892.
266. Patiño M, Lagos WN, Patne NS, Tasic B, Zeng H, Callaway EM. Single-cell transcriptomic classification of rabies-infected cortical neurons. *Proc Natl Acad Sci U S A*. 2022 May 31;119(22):e2203677119. Epub 2022 May 24. PMID: 35609197; PMCID: PMC9295789.
267. Peça J, Feliciano C, Ting JT, Wang W, Wells MF, Venkatraman TN, Lascola CD, Fu Z, Feng G. Shank3 mutant mice display autistic-like behaviours and striatal dysfunction. *Nature*. 2011 Apr 28;472(7344):437-42. Epub 2011 Mar 20. PMID: 21423165; PMCID: PMC3090611.

268. Perez-Zoghbi JF, Sajorda DR, Webb DA, Arnold LA, Emala CW, Yocum GT. Imidazobenzodiazepine PI320 Relaxes Mouse Peripheral Airways by Inhibiting Calcium Mobilization. *Am J Respir Cell Mol Biol*. 2022 Oct;67(4):482-490. PMID: 35776523; PMCID: PMC9564932.
269. Piatkevich KD, Bensussen S, Tseng HA, Shroff SN, Lopez-Huerta VG, Park D, Jung EE, Shemesh OA, Straub C, Gritton HJ, Romano MF, Costa E, Sabatini BL, Fu Z, Boyden ES, Han X. Population imaging of neural activity in awake behaving mice. *Nature*. 2019 Oct;574(7778):413-417. Epub 2019 Oct 9. PMID: 31597963; PMCID: PMC6858559.
270. Placzek AN, Molfese DL, Khatiwada S, Viana Di Prisco G, Huang W, Sidrauski C, Krnjević K, Amos CL, Ray R, Dani JA, Walter P, Salas R, Costa-Mattioli M. Translational control of nicotine-evoked synaptic potentiation in mice and neuronal responses in human smokers by eIF2 $\alpha$ . *Elife*. 2016 Mar 1;5:e12056. PMID: 26928076; PMCID: PMC4786418.
271. Placzek AN, Prisco GV, Khatiwada S, Sgritta M, Huang W, Krnjević K, Kaufman RJ, Dani JA, Walter P, Costa-Mattioli M. eIF2 $\alpha$ -mediated translational control regulates the persistence of cocaine-induced LTP in midbrain dopamine neurons. *Elife*. 2016 Dec 13;5:e17517. PMID: 27960077; PMCID: PMC5154759.
272. Poobalasingam T, Yates LL, Walker SA, Pereira M, Gross NY, Ali A, Kolatsi-Joannou M, Jarvelin MR, Pekkanen J, Papakrivopoulou E, Long DA, Griffiths M, Wagner D, Königshoff M, Hind M, Minelli C, Lloyd CM, Dean CH. Heterozygous *Vangl2* Looptail mice reveal novel roles for the planar cell polarity pathway in adult lung homeostasis and repair. *Dis Model Mech*. 2017 Apr 1;10(4):409-423. Epub 2017 Feb 24. PMID: 28237967; PMCID: PMC5399569.
273. Pozhidayeva DY, Farris SP, Goeke CM, Firsick EJ, Townsley KG, Guizzetti M, Ozburn AR. Chronic Chemogenetic Stimulation of the Nucleus Accumbens Produces Lasting Reductions in Binge Drinking and Ameliorates Alcohol-Related Morphological and Transcriptional Changes. *Brain Sci*. 2020 Feb 18;10(2):109. PMID: 32085427; PMCID: PMC7071376.
274. Priya R, Rakela B, Kaneko M, Spatazza J, Larimer P, Hoseini MS, Hasenstaub AR, Alvarez-Buylla A, Stryker MP. Vesicular GABA Transporter Is Necessary for Transplant-Induced Critical Period Plasticity in Mouse Visual Cortex. *J Neurosci*. 2019 Apr 3;39(14):2635-2648. Epub 2019 Jan 31. PMID: 30705101; PMCID: PMC6445995.
275. Puigdellívol M, Milde S, Vilalta A, Cockram TOJ, Allendorf DH, Lee JY, Dundee JM, Pampuščenko K, Borutaite V, Nuthall HN, Brelstaff JH, Spillantini MG, Brown GC. The microglial P2Y<sub>6</sub> receptor mediates neuronal loss and memory deficits in neurodegeneration. *Cell Rep*. 2021 Dec 28;37(13):110148. PMID: 34965424; PMCID: PMC8733854.
276. Puttur F, Denney L, Gregory LG, Vuononvirta J, Oliver R, Entwistle LJ, Walker SA, Headley MB, McGhee EJ, Pease JE, Krummel MF, Carlin LM, Lloyd CM. Pulmonary



environmental cues drive group 2 innate lymphoid cell dynamics in mice and humans. *Sci Immunol*. 2019 Jun 7;4(36):eaav7638. PMID: 31175176; PMCID: PMC6744282.

277. Qian Y, Piatkevich KD, Mc Larney B, Abdelfattah AS, Mehta S, Murdock MH, Gottschalk S, Molina RS, Zhang W, Chen Y, Wu J, Drobizhev M, Hughes TE, Zhang J, Schreiter ER, Shoham S, Razansky D, Boyden ES, Campbell RE. A genetically encoded near-infrared fluorescent calcium ion indicator. *Nat Methods*. 2019 Feb;16(2):171-174. Epub 2019 Jan 21. PMID: 30664778; PMCID: PMC6393164.
278. Qian Y, Cosio DMO, Piatkevich KD, Aufmkolk S, Su WC, Celiker OT, Schohl A, Murdock MH, Aggarwal A, Chang YF, Wiseman PW, Ruthazer ES, Boyden ES, Campbell RE. Improved genetically encoded near-infrared fluorescent calcium ion indicators for in vivo imaging. *PLoS Biol*. 2020 Nov 24;18(11):e3000965. PMID: 33232322; PMCID: PMC7723245.
279. Quigley LD, Pendry R, Mendoza ML, Pfeiffer BE, Volk LJ. Experience alters hippocampal and cortical network communication via a KIBRA-dependent mechanism. *Cell Rep*. 2023 Jun 20;42(6):112662. Epub ahead of print. PMID: 37347662.
280. Qu M, Lu P, Bellve K, Lifshitz LM, ZhuGe R. Mode Switch of Ca<sup>2+</sup> Oscillation-Mediated Uterine Peristalsis and Associated Embryo Implantation Impairments in Mouse Adenomyosis. *Front Physiol*. 2021 Nov 4;12:744745. PMID: 34803733; PMCID: PMC8599363.
281. Reitz SL, Wasilczuk AZ, Beh GH, Proekt A, Kelz MB. Activation of Preoptic Tachykinin 1 Neurons Promotes Wakefulness over Sleep and Volatile Anesthetic-Induced Unconsciousness. *Curr Biol*. 2021 Jan 25;31(2):394-405.e4. Epub 2020 Nov 13. PMID: 33188746; PMCID: PMC7855813.
282. Rietdorf K, Bootman MD, Sanderson MJ. Spontaneous, pro-arrhythmic calcium signals disrupt electrical pacing in mouse pulmonary vein sleeve cells. *PLoS One*. 2014 Feb 20;9(2):e88649. PMID: 24586364; PMCID: PMC3930634.
283. Rindner DJ, Proddatur A, Lur G. Cell-type-specific integration of feedforward and feedback synaptic inputs in the posterior parietal cortex. *Neuron*. 2022 Nov 16;110(22):3760-3773.e5. Epub 2022 Sep 9. PMID: 36087582; PMCID: PMC9671855.
284. Rochon PL, Theriault C, Rangel Olguin AG, Krishnaswamy A. The cell adhesion molecule Sdk1 shapes assembly of a retinal circuit that detects localized edges. *Elife*. 2021 Sep 21;10:e70870. PMID: 34545809; PMCID: PMC8514235.
285. Rose HM, Ferrán B, Ranjit R, Masingale AM, Owen DB, Hussong S, Kinter MT, Galvan V, Logan S, Díaz-García CM. Mitochondrial calcium uniporter deficiency in dentate granule

cells remodels neuronal metabolism and impairs reversal learning. *J Neurochem.* 2023 Jul 6. Epub ahead of print. PMID: 37415312.

286. Rosner SR, Ram-Mohan S, Paez-Cortez JR, Lavoie TL, Dowell ML, Yuan L, Ai X, Fine A, Aird WC, Solway J, Fredberg JJ, Krishnan R. Airway contractility in the precision-cut lung slice after cryopreservation. *Am J Respir Cell Mol Biol.* 2014 May;50(5):876-81. PMID: 24313705; PMCID: PMC4068941.
287. Rosner SR, Pascoe CD, Blankman E, Jensen CC, Krishnan R, James AL, Elliot JG, Green FH, Liu JC, Seow CY, Park JA, Beckerle MC, Paré PD, Fredberg JJ, Smith MA. The actin regulator zyxin reinforces airway smooth muscle and accumulates in airways of fatal asthmatics. *PLoS One.* 2017 Mar 9;12(3):e0171728. PMID: 28278518; PMCID: PMC5344679.
288. Royce SG, Nold MF, Bui C, Donovan C, Lam M, Lamanna E, Rudloff I, Bourke JE, Nold-Petry CA. Airway Remodeling and Hyperreactivity in a Model of Bronchopulmonary Dysplasia and Their Modulation by IL-1 Receptor Antagonist. *Am J Respir Cell Mol Biol.* 2016 Dec;55(6):858-868. PMID: 27482635.
289. Ruiz-Garcia H, Zarco N, Watanabe F, De Araujo Farias V, Suarez-Meade P, Guerrero-Cazares H, Imitola J, Quinones-Hinojosa A, Trifiletti D. Development of Experimental Three-Dimensional Tumor Models to Study Glioblastoma Cancer Stem Cells and Tumor Microenvironment. *Methods Mol Biol.* 2023;2572:117-127. PMID: 36161412.
290. Rukundo P, Feng T, Pham V, Pieraut S. Moderate effect of early-life experience on dentate gyrus function. *Mol Brain.* 2022 Nov 21;15(1):92. PMID: 36411441; PMCID: PMC9677655.
291. Russo S, Cathomas F, Lin HY, Chan K, Li L, Cuttoli RD, Parise L, Aubry A, Muhareb S, Desland F, Shimo Y, Ramakrishnan A, Estill M, Ferrer-Perez C, Parise E, Wang J, Sowa A, Janssen W, Costi S, Rahman A, Fernandez N, Swirski F, Nestler E, Shen L, Merad M, Murrough J. Peripheral immune-derived matrix metalloproteinase promotes stress susceptibility. *Res Sq [Preprint].* 2023 Jan 30:rs.3.rs-1647827. PMID: 36778505; PMCID: PMC9915787.
292. Salile SS, Lee HJ, Alberts PSF, Abula T, Raimondo JV, Stafford GI. In vitro and in vivo anti-seizure activity of hydromethanolic extract and fractions of *Pterolobium stellatum*. *J Ethnopharmacol.* 2023 Mar 25;304:116073. Epub 2022 Dec 18. PMID: 36543277.
293. Sarkar A, Jin Y, DeFelice BC, Logan CY, Yang Y, Anbarchian T, Wu P, Morri M, Neff NF, Nguyen H, Rulifson E, Fish M, Kaye AG, Martínez Jaimes AM, Nusse R. Intermittent fasting induces rapid hepatocyte proliferation to restore the hepatostat in the mouse liver. *Elife.* 2023 Jan 31;12:e82311. PMID: 36719070; PMCID: PMC9889086.

294. Saviuk N, Chong Y, Wang P, Bermudez S, Zhao Z, Bhaskaran AA, Bowie D, Sonenberg N, Cooper E, Haghghi AP. Loss of 4E-BP converts cerebellar long-term depression to long-term potentiation. *Cell Rep.* 2022 Jun 7;39(10):110911. PMID: 35675781.
295. Schepelmann M, Yarova PL, Lopez-Fernandez I, Davies TS, Brennan SC, Edwards PJ, Aggarwal A, Graça J, Rietdorf K, Matchkov V, Fenton RA, Chang W, Krssak M, Stewart A, Broadley KJ, Ward DT, Price SA, Edwards DH, Kemp PJ, Riccardi D. The vascular Ca<sup>2+</sup>-sensing receptor regulates blood vessel tone and blood pressure. *Am J Physiol Cell Physiol.* 2016 Feb 1;310(3):C193-204. Epub 2015 Nov 4. PMID: 26538090; PMCID: PMC5243220.
296. Seeman SC, Campagnola L, Davoudian PA, Hoggarth A, Hage T, Bosma-Moody A, Baker CA, Lee JH, Mihalas S, Teeter C, Ko AL, Ojemann JG, Gwinn RP, Silbergeld DL, Cobbs C, Phillips J, Lein E, Murphy G, Koch C, Zeng H, Jarsky T. Sparse recurrent excitatory connectivity in the microcircuit of the adult mouse and human cortex. *Elife.* 2018 Sep 26;7:e37349. PMID: 30256194; PMCID: PMC6158007.
297. Selever J, Kong JQ, Arenkiel BR. A rapid approach to high-resolution fluorescence imaging in semi-thick brain slices. *J Vis Exp.* 2011 Jul 26;(53):2807. PMID: 21841756; PMCID: PMC3197438.
298. Shalaby KH, Lyons-Cohen MR, Whitehead GS, Thomas SY, Prinz I, Nakano H, Cook DN. Pathogenic T<sub>H</sub>17 inflammation is sustained in the lungs by conventional dendritic cells and Toll-like receptor 4 signaling. *J Allergy Clin Immunol.* 2018 Oct;142(4):1229-1242.e6. Epub 2017 Nov 14. PMID: 29154958; PMCID: PMC5951733.
299. Shandra O, Winemiller AR, Heithoff BP, Munoz-Ballester C, George KK, Benko MJ, Zuidhoek IA, Besser MN, Curley DE, Edwards GF 3rd, Mey A, Harrington AN, Kitchen JP, Robel S. Repetitive Diffuse Mild Traumatic Brain Injury Causes an Atypical Astrocyte Response and Spontaneous Recurrent Seizures. *J Neurosci.* 2019 Mar 6;39(10):1944-1963. Epub 2019 Jan 21. PMID: 30665946; PMCID: PMC6407295.
300. Shemesh OA, Linghu C, Piatkevich KD, Goodwin D, Celiker OT, Gritton HJ, Romano MF, Gao R, Yu CJ, Tseng HA, Bensussen S, Narayan S, Yang CT, Freifeld L, Siciliano CA, Gupta I, Wang J, Pak N, Yoon YG, Ullmann JFP, Guner-Ataman B, Noamany H, Sheinkopf ZR, Park WM, Asano S, Keating AE, Trimmer JS, Reimer J, Tolia AS, Bear MF, Tye KM, Han X, Ahrens MB, Boyden ES. Precision Calcium Imaging of Dense Neural Populations via a Cell-Body-Targeted Calcium Indicator. *Neuron.* 2020 Aug 5;107(3):470-486.e11. Epub 2020 Jun 26. PMID: 32592656; PMCID: PMC7415598.
301. Shigemura M, Lecuona E, Angulo M, Homma T, Rodríguez DA, Gonzalez-Gonzalez FJ, Welch LC, Amarelle L, Kim SJ, Kaminski N, Budinger GRS, Solway J, Sznajder JI. Hypercapnia increases airway smooth muscle contractility via caspase-7-mediated miR-133a-RhoA signaling. *Sci Transl Med.* 2018 Sep 5;10(457):eaat1662. PMID: 30185650; PMCID: PMC6889079.

302. Shi W, Xue M, Wu F, Fan K, Chen QY, Xu F, Li XH, Bi GQ, Lu JS, Zhuo M. Whole-brain mapping of efferent projections of the anterior cingulate cortex in adult male mice. *Mol Pain*. 2022 Jan-Dec;18:17448069221094529. PMID: 35354345; PMCID: PMC9083044.
303. Shi Y, Lv J, Chen L, Luo G, Tao M, Pan J, Hu X, Sheng J, Zhang S, Zhou M, Fan H. Phosphodiesterase-4D Knockdown in the Prefrontal Cortex Alleviates Memory Deficits and Synaptic Failure in Mouse Model of Alzheimer's Disease. *Front Aging Neurosci*. 2021 Sep 3;13:722580. PMID: 34539384; PMCID: PMC8446525.
304. Shrestha D, Massey N, Bhat SM, Jelesijević T, Sahin O, Zhang Q, Bailey KL, Poole JA, Charavaryamath C. Nrf2 Activation Protects Against Organic Dust and Hydrogen Sulfide Exposure Induced Epithelial Barrier Loss and *K. pneumoniae* Invasion. *Front Cell Infect Microbiol*. 2022 Apr 19;12:848773. PMID: 35521223; PMCID: PMC9062039.
305. Shrestha S, Cho W, Stump B, Imani J, Lamattina AM, Louis PH, Pazzanese J, Rosas IO, Visner G, Perrella MA, El-Chemaly S. FK506 induces lung lymphatic endothelial cell senescence and downregulates LYVE-1 expression, with associated decreased hyaluronan uptake. *Mol Med*. 2020 Jul 31;26(1):75. PMID: 32736525; PMCID: PMC7395348.
306. Sicher AR, Starnes WD, Griffith KR, Dao NC, Smith GC, Brockway DF, Crowley NA. Adolescent binge drinking leads to long-lasting changes in cortical microcircuits in mice. *Neuropharmacology*. 2023 Aug 15;234:109561. Epub 2023 May 1. PMID: 37137354; PMCID: PMC10386078.
307. Siewiera J, McIntyre TI, Cautivo KM, Mahiddine K, Rideaux D, Molofsky AB, Erlebacher A. Circumvention of luteolysis reveals parturition pathways in mice dependent upon innate type 2 immunity. *Immunity*. 2023 Mar 14;56(3):606-619.e7. Epub 2023 Feb 6. PMID: 36750100; PMCID: PMC10023352.
308. Singh M, Sapkota K, Sakimura K, Kano M, Cowell RM, Overstreet-Wadiche L, Hablitz JJ, Nakazawa K. Maturation of GABAergic Synaptic Transmission From Neocortical Parvalbumin Interneurons Involves N-methyl-D-aspartate Receptor Recruitment of Cav2.1 Channels. *Neuroscience*. 2023 Mar 1;513:38-53. Epub 2023 Jan 20. PMID: 36682446.
309. Smith-Osborne L, Duong A, Resendez A, Palme R, Fadok JP. Female dominance hierarchies influence responses to psychosocial stressors. *Curr Biol*. 2023 Apr 24;33(8):1535-1549.e5. Epub 2023 Mar 31. PMID: 37003262; PMCID: PMC10321215.
310. Srivastava AK, Roy Choudhury S, Karmakar S. Melatonin/polydopamine nanostructures for collective neuroprotection-based Parkinson's disease therapy. *Biomater Sci*. 2020 Mar 7;8(5):1345-1363. Epub 2020 Jan 8. PMID: 31912833.
311. Srivastava AK, Roy Choudhury S, Karmakar S. Near-Infrared Responsive Dopamine/Melatonin-Derived Nanocomposites Abrogating in Situ Amyloid  $\beta$  Nucleation,

Propagation, and Ameliorate Neuronal Functions. *ACS Appl Mater Interfaces*. 2020 Feb 5;12(5):5658-5670. Epub 2020 Jan 27. PMID: 31986005.

312. Stansley BJ, Fisher NM, Gogliotti RG, Lindsley CW, Conn PJ, Niswender CM. Contextual Fear Extinction Induces Hippocampal Metaplasticity Mediated by Metabotropic Glutamate Receptor 5. *Cereb Cortex*. 2018 Dec 1;28(12):4291-4304. PMID: 29136107; PMCID: PMC6454528.
313. Sullivan BJ, Kipnis PA, Carter BM, Shao LR, Kadam SD. Targeting ischemia-induced KCC2 hypofunction rescues refractory neonatal seizures and mitigates epileptogenesis in a mouse model. *Sci Signal*. 2021 Nov 9;14(708):eabg2648. Epub 2021 Nov 9. PMID: 34752143; PMCID: PMC8763016.
314. Sun Y, Blanco-Centurion C, Zou B, Bendell E, Shiromani PJ, Liu M. Amygdala GABA Neurons Project To vIPAG And mPFC. *IBRO Rep*. 2019 Mar 8;6:132-136. PMID: 31193158; PMCID: PMC6520332.
315. Sun Y, Blanco-Centurion C, Bendell E, Vidal-Ortiz A, Luo S, Liu M. Activity dynamics of amygdala GABAergic neurons during cataplexy of narcolepsy. *Elife*. 2019 Aug 14;8:e48311. Erratum in: *Elife*. 2019 Oct 04;8: PMID: 31411561; PMCID: PMC6703899.
316. Sun Y, Liu M. Hypothalamic MCH Neuron Activity Dynamics during Cataplexy of Narcolepsy. *eNeuro*. 2020 Apr 29;7(2):ENEURO.0017-20.2020. PMID: 32303567; PMCID: PMC7196720.
317. Suresh Nair M, Dao NC, Lopez Melean D, Griffith KR, Starnes WD, Moyer JB, Sicher AR, Brockway DF, Meeks KD, Crowley NA. Somatostatin neurons in the bed nucleus of the stria terminalis play a sex-dependent role in binge Drinking. *Brain Res Bull*. 2022 Aug;186:38-46. Epub 2022 May 25. PMID: 35643257.
318. Szablowski JO, Lee-Gosselin A, Lue B, Malounda D, Shapiro MG. Acoustically targeted chemogenetics for the non-invasive control of neural circuits. *Nat Biomed Eng*. 2018 Jul;2(7):475-484. Epub 2018 Jul 9. PMID: 30948828.
319. Takahashi A, Durand-de Cuttoli R, Flanigan ME, Hasegawa E, Tsunematsu T, Aleyasin H, Cherasse Y, Miya K, Okada T, Keino-Masu K, Mitsui K, Li L, Patel V, Blitzer RD, Lazarus M, Tanaka KF, Yamanaka A, Sakurai T, Ogawa S, Russo SJ. Lateral habenula glutamatergic neurons projecting to the dorsal raphe nucleus promote aggressive arousal in mice. *Nat Commun*. 2022 Jul 21;13(1):4039. PMID: 35864121; PMCID: PMC9304121.
320. Tan X, Sanderson MJ. Bitter tasting compounds dilate airways by inhibiting airway smooth muscle calcium oscillations and calcium sensitivity. *Br J Pharmacol*. 2014 Feb;171(3):646-62. PMID: 24117140; PMCID: PMC3969078.

321. Tarr JC, Turlington ML, Reid PR, Utley TJ, Sheffler DJ, Cho HP, Klar R, Pancani T, Klein MT, Bridges TM, Morrison RD, Blobaum AL, Xiang Z, Daniels JS, Niswender CM, Conn PJ, Wood MR, Lindsley CW. Targeting selective activation of M(1) for the treatment of Alzheimer's disease: further chemical optimization and pharmacological characterization of the M(1) positive allosteric modulator ML169. *ACS Chem Neurosci*. 2012 Nov 21;3(11):884-95. Epub 2012 Jul 18. PMID: 23173069; PMCID: PMC3503349.
322. Tasic B, Yao Z, Graybuck LT, Smith KA, Nguyen TN, Bertagnolli D, Goldy J, Garren E, Economo MN, Viswanathan S, Penn O, Bakken T, Menon V, Miller J, Fong O, Hirokawa KE, Lathia K, Rimorin C, Tieu M, Larsen R, Casper T, Barkan E, Kroll M, Parry S, Shapovalova NV, Hirschstein D, Pendergraft J, Sullivan HA, Kim TK, Szafer A, Dee N, Groblewski P, Wickersham I, Cetin A, Harris JA, Levi BP, Sunkin SM, Madisen L, Daigle TL, Looger L, Bernard A, Phillips J, Lein E, Hawrylycz M, Svoboda K, Jones AR, Koch C, Zeng H. Shared and distinct transcriptomic cell types across neocortical areas. *Nature*. 2018 Nov;563(7729):72-78. Epub 2018 Oct 31. PMID: 30382198; PMCID: PMC6456269.
323. Thomas SY, Whitehead GS, Takaku M, Ward JM, Xu X, Nakano K, Lyons-Cohen MR, Nakano H, Gowdy KM, Wade PA, Cook DN. MyD88-dependent dendritic and epithelial cell crosstalk orchestrates immune responses to allergens. *Mucosal Immunol*. 2018 May;11(3):796-810. Epub 2017 Oct 25. PMID: 29067999; PMCID: PMC5918466.
324. Ting JT, Daigle TL, Chen Q, Feng G. Acute brain slice methods for adult and aging animals: application of targeted patch clamp analysis and optogenetics. *Methods Mol Biol*. 2014;1183:221-42. PMID: 25023312; PMCID: PMC4219416.
325. Ting JT, Lee BR, Chong P, Soler-Llavina G, Cobbs C, Koch C, Zeng H, Lein E. Preparation of Acute Brain Slices Using an Optimized N-Methyl-D-glucamine Protective Recovery Method. *J Vis Exp*. 2018 Feb 26;(132):53825. PMID: 29553547; PMCID: PMC5931343.
326. Toth AB, Hori K, Novakovic MM, Bernstein NG, Lambot L, Prakriya M. CRAC channels regulate astrocyte  $Ca^{2+}$  signaling and gliotransmitter release to modulate hippocampal GABAergic transmission. *Sci Signal*. 2019 May 21;12(582):eaaw5450. PMID: 31113852; PMCID: PMC6837172.
327. Tsujikawa S, DeMeulenaere KE, Centeno MV, Ghazisaeidi S, Martin ME, Tapies MR, Maneshi MM, Yamashita M, Stauderman KA, Apkarian AV, Salter MW, Prakriya M. Regulation of neuropathic pain by microglial Orai1 channels. *Sci Adv*. 2023 Jan 27;9(4):eade7002. Epub 2023 Jan 27. PMID: 36706180; PMCID: PMC9883051.
328. Urso A, D'Ovidio F, Xu D, Emala CW Sr, Bunnnett NW, Perez-Zoghbi JF. Bile acids inhibit cholinergic constriction in proximal and peripheral airways from humans and rodents. *Am J Physiol Lung Cell Mol Physiol*. 2020 Feb 1;318(2):L264-L275. Epub 2019 Dec 4. PMID: 31800261; PMCID: PMC7474253.

329. Valakh V, Wise D, Zhu XA, Sha M, Fok J, Van Hooser SD, Schectman R, Cepeda I, Kirk R, O'Toole SM, Nelson SB. A transcriptional constraint mechanism limits the homeostatic response to activity deprivation in mammalian neocortex. *Elife*. 2023 Feb 7;12:e74899. PMID: 36749029; PMCID: PMC10010687.
330. Van Dijk EM, Culha S, Menzen MH, Bidan CM, Gosens R. Elastase-Induced Parenchymal Disruption and Airway Hyper Responsiveness in Mouse Precision Cut Lung Slices: Toward an *Ex vivo* COPD Model. *Front Physiol*. 2017 Jan 4;7:657. PMID: 28101062; PMCID: PMC5209351.
331. Veldman MB, Park CS, Eyermann CM, Zhang JY, Zuniga-Sanchez E, Hirano AA, Daigle TL, Foster NN, Zhu M, Langfelder P, Lopez IA, Brecha NC, Zipursky SL, Zeng H, Dong HW, Yang XW. Brainwide Genetic Sparse Cell Labeling to Illuminate the Morphology of Neurons and Glia with Cre-Dependent MORF Mice. *Neuron*. 2020 Oct 14;108(1):111-127.e6. Epub 2020 Aug 13. PMID: 32795398; PMCID: PMC7572760.
332. Venkadesh S, Santarelli A, Boesen T, Dong HW, Ascoli G. Combinatorial quantification of distinct neural projections from retrograde tracing. *Res Sq [Preprint]*. 2023 Jan 9:rs.3.rs-2454289. PMID: 36711802; PMCID: PMC9882684.
333. Vieira PA, Lovelace JW, Corches A, Rashid AJ, Josselyn SA, Korzus E. Prefrontal consolidation supports the attainment of fear memory accuracy. *Learn Mem*. 2014 Jul 16;21(8):394-405. PMID: 25031365; PMCID: PMC4105719.
334. Vieira PA, Korzus E. CBP-Dependent memory consolidation in the prefrontal cortex supports object-location learning. *Hippocampus*. 2015 Dec;25(12):1532-40. Epub 2015 Jun 2. PMID: 25941038; PMCID: PMC4633403.
335. Vogler J, Böttger R, Al Fayez N, Zhang W, Qin Z, Hohenwarter L, Chao PH, Rouhollahi E, Bilal N, Chen N, Lee B, Chen C, Wilkinson B, Kieffer TJ, Kulkarni JA, Cullis PR, Witzigmann D, Li SD. Altering the intra-liver distribution of phospholipid-free small unilamellar vesicles using temperature-dependent size- tunability. *J Control Release*. 2021 May 10;333:151-161. Epub 2021 Mar 23. PMID: 33771624.
336. Wallace CW, Loudermilt MC, Fordahl SC. Effect of fasting on dopamine neurotransmission in subregions of the nucleus accumbens in male and female mice. *Nutr Neurosci*. 2022 Jul;25(7):1338-1349. Epub 2020 Dec 9. PMID: 33297887; PMCID: PMC8187473.
337. Wallace CW, Beatty NS, Hutcherson SA, Emmons HA, Loudermilt MC, Fordahl SC. Replacing a Palatable High-Fat Diet with a Low-Fat Alternative Heightens  $\kappa$ -Opioid Receptor Control over Nucleus Accumbens Dopamine. *Nutrients*. 2021 Jul 9;13(7):2341. PMID: 34371851; PMCID: PMC8308677.

338. Wang C, Hyams B, Allen NC, Cautivo K, Monahan K, Zhou M, Dahlgren MW, Lizama CO, Matthay M, Wolters P, Molofsky AB, Peng T. Dysregulated lung stroma drives emphysema exacerbation by potentiating resident lymphocytes to suppress an epithelial stem cell reservoir. *Immunity*. 2023 Mar 14;56(3):576-591.e10. Epub 2023 Feb 22. PMID: 36822205.
339. Wang H, Zhu Q, Ding L, Shen Y, Yang CY, Xu F, Shu C, Guo Y, Xiong Z, Shan Q, Jia F, Su P, Yang QR, Li B, Cheng Y, He X, Chen X, Wu F, Zhou JN, Xu F, Han H, Lau PM, Bi GQ. Scalable volumetric imaging for ultrahigh-speed brain mapping at synaptic resolution. *Natl Sci Rev*. 2019 Oct;6(5):982-992. Epub 2019 Apr 24. PMID: 34691959; PMCID: PMC8291554.
340. Wang J, Li T, Wang JL, Xu Z, Meng W, Wu QF. Talpid3-Mediated Centrosome Integrity Restrains Neural Progenitor Delamination to Sustain Neurogenesis by Stabilizing Adherens Junctions. *Cell Rep*. 2020 Dec 15;33(11):108495. PMID: 33326788.
341. Wang QW, Wang YH, Wang B, Chen Y, Lu SY, Yao J. Synaptotagmin-7-mediated activation of spontaneous NMDAR currents is disrupted in bipolar disorder susceptibility variants. *PLoS Biol*. 2021 Jul 6;19(7):e3001323. PMID: 34228711; PMCID: PMC8284830.
342. Wang W, Cohen JA, Wallrapp A, Trieu KG, Barrios J, Shao F, Krishnamoorthy N, Kuchroo VK, Jones MR, Fine A, Bai Y, Ai X. Age-Related Dopaminergic Innervation Augments T Helper 2-Type Allergic Inflammation in the Postnatal Lung. *Immunity*. 2019 Dec 17;51(6):1102-1118.e7. Epub 2019 Nov 19. PMID: 31757673; PMCID: PMC6937208.
343. Wang WY, Kent RN 3rd, Huang SA, Jarman EH, Shikanov EH, Davidson CD, Hiraki HL, Lin D, Wall MA, Matera DL, Shin JW, Polachek WJ, Shikanov A, Baker BM. Direct comparison of angiogenesis in natural and synthetic biomaterials reveals that matrix porosity regulates endothelial cell invasion speed and sprout diameter. *Acta Biomater*. 2021 Nov;135:260-273. Epub 2021 Aug 29. PMID: 34469789; PMCID: PMC8595798.
344. Watson CY, Damiani F, Ram-Mohan S, Rodrigues S, de Moura Queiroz P, Donaghey TC, Rosenblum Lichtenstein JH, Brain JD, Krishnan R, Molina RM. Screening for Chemical Toxicity Using Cryopreserved Precision Cut Lung Slices. *Toxicol Sci*. 2016 Mar;150(1):225-33. Epub 2015 Dec 29. PMID: 26719368; PMCID: PMC5009619.
345. Wen Q, Gandhi K, Capel RA, Hao G, O'Shea C, Neagu G, Pearcey S, Pavlovic D, Terrar DA, Wu J, Faggian G, Camelliti P, Lei M. Transverse cardiac slicing and optical imaging for analysis of transmural gradients in membrane potential and  $Ca^{2+}$  transients in murine heart. *J Physiol*. 2018 Sep;596(17):3951-3965. Epub 2018 Jul 26. PMID: 29928770; PMCID: PMC6117587.
346. Wickersham IR, Sullivan HA, Seung HS. Axonal and subcellular labelling using modified rabies viral vectors. *Nat Commun*. 2013;4:2332. PMID: 23945836; PMCID: PMC5939574.



347. Wie J, Liu Z, Song H, Tropea TF, Yang L, Wang H, Liang Y, Cang C, Aranda K, Lohmann J, Yang J, Lu B, Chen-Plotkin AS, Luk KC, Ren D. A growth-factor- activated lysosomal K<sup>+</sup> channel regulates Parkinson's pathology. *Nature*. 2021 Mar;591(7850):431-437. Epub 2021 Jan 27. Erratum in: *Nature*. 2021 Apr;592(7855):E10. PMID: 33505021; PMCID: PMC7979525.
348. Wong TTW, Zhang R, Zhang C, Hsu HC, Maslov KI, Wang L, Shi J, Chen R, Shung KK, Zhou Q, Wang LV. Label-free automated three-dimensional imaging of whole organs by microtomy-assisted photoacoustic microscopy. *Nat Commun*. 2017 Nov 9;8(1):1386. PMID: 29123109; PMCID: PMC5680318.
349. Wu 吳秋雨 Q, Kolb I, Callahan BM, Su Z, Stoy W, Kodandaramaiah SB, Neve R, Zeng H, Boyden ES, Forest CR, Chubykin AA. Integration of autpatching with automated pipette and cell detection in vitro. *J Neurophysiol*. 2016 Oct 1;116(4):1564-1578. Epub 2016 Jul 6. PMID: 27385800; PMCID: PMC5144721.
350. Wu Q, Shaikh MA, Meymand ES, Zhang B, Luk KC, Trojanowski JQ, Lee VM. Neuronal activity modulates alpha-synuclein aggregation and spreading in organotypic brain slice cultures and in vivo. *Acta Neuropathol*. 2020 Dec;140(6):831-849. Epub 2020 Oct 6. PMID: 33021680; PMCID: PMC8030660.
351. Xiang Z, Lv X, Maksymetz J, Stansley BJ, Ghoshal A, Gogliotti RG, Niswender CM, Lindsley CW, Conn PJ. mGlu<sub>5</sub> Positive Allosteric Modulators Facilitate Long-Term Potentiation via Disinhibition Mediated by mGlu<sub>5</sub>-Endocannabinoid Signaling. *ACS Pharmacol Transl Sci*. 2019 Jun 14;2(3):198-209. Epub 2019 May 15. PMID: 31259318; PMCID: PMC6591772.
352. Xiao C, Miwa JM, Henderson BJ, Wang Y, Deshpande P, McKinney SL, Lester HA. Nicotinic receptor subtype-selective circuit patterns in the subthalamic nucleus. *J Neurosci*. 2015 Mar 4;35(9):3734-46. PMID: 25740504; PMCID: PMC4348180.
353. Xu-Vanpala S, Deerhake ME, Wheaton JD, Parker ME, Juvvadi PR, MacIver N, Ciofani M, Shinohara ML. Functional heterogeneity of alveolar macrophage population based on expression of CXCL2. *Sci Immunol*. 2020 Aug 7;5(50):eaba7350. PMID: 32769172; PMCID: PMC7717592.
354. Yang C, Lavayen BP, Liu L, Sanz BD, DeMars KM, Laroche J, Pompilus M, Febo M, Sun YY, Kuo YM, Mohamadzadeh M, Farr SA, Kuan CY, Butler AA, Candelario-Jalil E. Neurovascular protection by adropin in experimental ischemic stroke through an endothelial nitric oxide synthase-dependent mechanism. *Redox Biol*. 2021 Nov 22;48:102197. Epub ahead of print. PMID: 34826783; PMCID: PMC8633041.
355. Yang C, Gong Z, Zhang X, Miao S, Li B, Xie W, Wang T, Han X, Wang L, Dong Z, Yu S. Neuropeptide Y in the medial habenula alleviates migraine-like behaviors through the Y1

receptor. *J Headache Pain*. 2023 May 25;24(1):61. PMID: 37231359; PMCID: PMC10209951.

356. Yang WZ, Liu TT, Cao JW, Chen XF, Liu X, Wang M, Su X, Zhang SQ, Qiu BL, Hu WX, Liu LY, Ma L, Yu YC. Fear Erasure Facilitated by Immature Inhibitory Neuron Transplantation. *Neuron*. 2016 Dec 21;92(6):1352-1367. Epub 2016 Dec 8. PMID: 27939579.
357. Yao XH, Wang M, He XN, He F, Zhang SQ, Lu W, Qiu ZL, Yu YC. Electrical coupling regulates layer 1 interneuron microcircuit formation in the neocortex. *Nat Commun*. 2016 Aug 11;7:12229. PMID: 27510304; PMCID: PMC4987578.
358. Yao Z, van Velthoven CTJ, Nguyen TN, Goldy J, Seden-Cortes AE, Baftizadeh F, Bertagnolli D, Casper T, Chiang M, Crichton K, Ding SL, Fong O, Garren E, Glandon A, Gouwens NW, Gray J, Graybuck LT, Hawrylycz MJ, Hirschstein D, Kroll M, Lathia K, Lee C, Levi B, McMillen D, Mok S, Pham T, Ren Q, Rimorin C, Shapovalova N, Sulc J, Sunkin SM, Tieu M, Torkelson A, Tung H, Ward K, Dee N, Smith KA, Tasic B, Zeng H. A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. *Cell*. 2021 Jun 10;184(12):3222-3241.e26. Epub 2021 May 17. PMID: 34004146; PMCID: PMC8195859.
359. Yao Z, Liu H, Xie F, Fischer S, Adkins RS, Aldridge AI, Ament SA, Bartlett A, Behrens MM, Van den Berge K, Bertagnolli D, de Bézieux HR, Biancalani T, Boeshaghi AS, Bravo HC, Casper T, Colantuoni C, Crabtree J, Creasy H, Crichton K, Crow M, Dee N, Dougherty EL, Doyle WI, Dudoit S, Fang R, Felix V, Fong O, Giglio M, Goldy J, Hawrylycz M, Herb BR, Hertzano R, Hou X, Hu Q, Kancherla J, Kroll M, Lathia K, Li YE, Lucero JD, Luo C, Mahurkar A, McMillen D, Nadaf NM, Nery JR, Nguyen TN, Niu SY, Ntranos V, Orvis J, Osteen JK, Pham T, Pinto-Duarte A, Poirion O, Preissl S, Purdom E, Rimorin C, Risso D, Rivkin AC, Smith K, Street K, Sulc J, Svensson V, Tieu M, Torkelson A, Tung H, Vaishnav ED, Vanderburg CR, van Velthoven C, Wang X, White OR, Huang ZJ, Kharchenko PV, Pachter L, Ngai J, Regev A, Tasic B, Welch JD, Gillis J, Macosko EZ, Ren B, Ecker JR, Zeng H, Mukamel EA. A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. *Nature*. 2021 Oct;598(7879):103-110. Epub 2021 Oct 6. PMID: 34616066; PMCID: PMC8494649.
360. Yen CF, Harischandra DS, Kanthasamy A, Sivasankar S. Copper-induced structural conversion templates prion protein oligomerization and neurotoxicity. *Sci Adv*. 2016 Jul 1;2(7):e1600014. PMID: 27419232; PMCID: PMC4942324.
361. Ye L, Orynbayev M, Zhu X, Lim EY, Derebdi RR, Agarwal A, Bergles DE, Bhat MA, Paukert M. Ethanol abolishes vigilance-dependent astroglia network activation in mice by inhibiting norepinephrine release. *Nat Commun*. 2020 Dec 2;11(1):6157. PMID: 33268792; PMCID: PMC7710743.
362. Yim PD, Gallos G, Perez-Zoghbi JF, Zhang Y, Xu D, Wu A, Berkowitz DE, Emala CW. Airway smooth muscle photorelaxation via opsin receptor activation. *Am J Physiol Lung Cell*

Mol Physiol. 2019 Jan 1;316(1):L82-L93. Epub 2018 Oct 4. PMID: 30284927; PMCID: PMC6383505.

363. Yocum GT, Chen J, Choi CH, Townsend EA, Zhang Y, Xu D, Fu XW, Sanderson MJ, Emala CW. Role of transient receptor potential vanilloid 1 in the modulation of airway smooth muscle tone and calcium handling. *Am J Physiol Lung Cell Mol Physiol*. 2017 Jun 1;312(6):L812-L821. Epub 2017 Mar 23. PMID: 28336810; PMCID: PMC5495950.
364. Yocum GT, Perez-Zoghbi JF, Danielsson J, Kuforiji AS, Zhang Y, Li G, Rashid Roni MS, Kodali R, Stafford DC, Arnold LA, Cook JM, Emala CW Sr. A novel GABA<sub>A</sub> receptor ligand MIDD0301 with limited blood-brain barrier penetration relaxes airway smooth muscle ex vivo and in vivo. *Am J Physiol Lung Cell Mol Physiol*. 2019 Feb 1;316(2):L385-L390. Epub 2018 Nov 29. PMID: 30489155; PMCID: PMC6397346.
365. Yu CR. Calcium imaging of vomeronasal organ response using slice preparations from transgenic mice expressing G-CaMP2. *Methods Mol Biol*. 2013;1068:211-20. PMID: 24014364; PMCID: PMC4492248.
366. Yu Q, Shao D, Zhang R, Ouyang W, Zhang Z. Effects of drinking water fluorosis on L-type calcium channel of hippocampal neurons in mice. *Chemosphere*. 2019 Apr;220:169-175. Epub 2018 Dec 10. PMID: 30583209.
367. Yu W, Yen YC, Lee YH, Tan S, Xiao Y, Lokman H, Ting AKT, Ganegala H, Kwon T, Ho WK, Je HS. Prenatal selective serotonin reuptake inhibitor (SSRI) exposure induces working memory and social recognition deficits by disrupting inhibitory synaptic networks in male mice. *Mol Brain*. 2019 Apr 1;12(1):29. PMID: 30935412; PMCID: PMC6444596.
368. Zeng Z, Cheng M, Li M, Wang T, Wen F, Sanderson MJ, Sneyd J, Shen Y, Chen J. Inherent differences of small airway contraction and Ca<sup>2+</sup> oscillations in airway smooth muscle cells between BALB/c and C57BL/6 mouse strains. *Front Cell Dev Biol*. 2023 Jun 5;11:1202573. PMID: 37346175; PMCID: PMC10279852.
369. Zhang C, Xu Y, Chowdhary A, Fox D 3rd, Gurney ME, Zhang HT, Auerbach BD, Salvi RJ, Yang M, Li G, O'Donnell JM. Memory enhancing effects of BPN14770, an allosteric inhibitor of phosphodiesterase-4D, in wild-type and humanized mice. *Neuropsychopharmacology*. 2018 Oct;43(11):2299-2309. Epub 2018 Aug 14. PMID: 30131563; PMCID: PMC6135860.
370. Zhang W, Böttger R, Qin Z, Kulkarni JA, Vogler J, Cullis PR, Li SD. Phospholipid-Free Small Unilamellar Vesicles for Drug Targeting to Cells in the Liver. *Small*. 2019 Oct;15(43):e1901782. Epub 2019 Sep 6. PMID: 31490617.
371. Zhang Y, Kang L, Wong IHM, Dai W, Li X, Chan RCK, Hsin MKY, Wong TTW. High-Throughput, Label-Free and Slide-Free Histological Imaging by Computational Microscopy

and Unsupervised Learning. *Adv Sci (Weinh)*. 2022 Jan;9(2):e2102358. Epub 2021 Nov 7. PMID: 34747142; PMCID: PMC8805566.

372. Zhang Y, Lu P, Liang F, Liufu N, Dong Y, Zheng JC, Xie Z. Cyclophilin D Contributes to Anesthesia Neurotoxicity in the Developing Brain. *Front Cell Dev Biol*. 2020 Feb 11;7:396. PMID: 32117955; PMCID: PMC7026027.

373. Zhao S, Ting JT, Atallah HE, Qiu L, Tan J, Gloss B, Augustine GJ, Deisseroth K, Luo M, Graybiel AM, Feng G. Cell type-specific channelrhodopsin-2 transgenic mice for optogenetic dissection of neural circuitry function. *Nat Methods*. 2011 Sep;8(9):745-52. PMID: 21985008; PMCID: PMC3191888.

374. Zheng Y, Dou JR, Gao Y, Dong L, Li G. Effects of 15 Hz square wave magnetic fields on the voltage-gated sodium and potassium channels in prefrontal cortex pyramidal neurons. *Int J Radiat Biol*. 2017 Apr;93(4):449-455. Epub 2016 Dec 7. PMID: 27924669.

375. Zingg B, Hintiryan H, Gou L, Song MY, Bay M, Bienkowski MS, Foster NN, Yamashita S, Bowman I, Toga AW, Dong HW. Neural networks of the mouse neocortex. *Cell*. 2014 Feb 27;156(5):1096-111. PMID: 24581503; PMCID: PMC4169118.