



REFERENCES FOR BRAIN (FIXED)

* All of these **peer-reviewed publications** have used the Compresstome® for successful tissue slices. For a full list of almost **200 references**, or to ask for references specific to your experiment, animal model, and organ system, please contact us:

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*The top Compresstome® references for brain (fixed) include:

1. 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.
2. Wickersham IR, Sullivan HA, Seung HS. Axonal and subcellular labelling using modified rabies viral vectors. *Nat Commun*. 2013;4:2332. PMID: 23945836.
3. 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.

References

* **Uses the Compresstome® for successful fixed brain slices.**

4. Cetin A, Callaway EM. Optical control of retrogradely infected neurons using drug-regulated "TLoop" lentiviral vectors. *J Neurophysiol*. 2014 May;111(10):2150-9. PMID: 24572099; PMCID: PMC4044340.
5. Duncan J, Kersigo J, Gray B, Fritsch B. Combining lipophilic dye, in situ hybridization, immunohistochemistry, and histology. *J Vis Exp*. 2011 Mar 17;(49). pii: 2451. PMID: 21445047; PMCID: PMC3197290.

6. 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. PMID: 25224546; PMCID: PMC4362939.
7. García-Cabezas MÁ, John YJ, Barbas H, Zikopoulos B. Distinction of Neurons, Glia and Endothelial Cells in the Cerebral Cortex: An Algorithm Based on Cytological Features. *Front Neuroanat.* 2016 Nov 1;10:107. PMID: 27847469; PMCID: PMC5088408.
8. Guan Y, Xiao C, Krnjevic K, Xie G, Zuo W, Ye JH. GABAergic actions mediate opposite ethanol effects on dopaminergic neurons in the anterior and posterior ventral tegmental area. *J Pharmacol Exp Ther.* 2012 Apr;341(1):33-42. PMID: 22209891; PMCID: PMC3310705.
9. Haddad-Tóvolli 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.
10. Harischandra DS, Kondru N, Martin DP, Kanthasamy A, Jin H, Anantharam V, Kanthasamy AG. Role of proteolytic activation of protein kinase C δ in the pathogenesis of prion disease. *Prion.* 2014 Jan-Feb;8(1):143-53. PMID: 24576946; PMCID: PMC4988799.
11. 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. PMID: 24473077; PMCID: PMC3904216.
12. 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. PMID: 27322419.
13. 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.
14. 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.
15. Intskirveli I, Metherate R. Nicotinic neuromodulation in auditory cortex requires MAPK activation in thalamocortical and intracortical circuits. *J Neurophysiol.* 2012 May;107(10):2782-93. PMID: 22357798; PMCID: PMC3362282.
16. 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. PMID: 27016581; PMCID: PMC4935509.

17. 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 δ 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. PMID: 25342743; PMCID: PMC4263877.
18. Kondru N, Manne S, Greenlee J, West Greenlee H, Anantharam V, Halbur P, Kanthasamy A, Kanthasamy A. Integrated Organotypic Slice Cultures and RT-QulC (OSCAR) Assay: Implications for Translational Discovery in Protein Misfolding Diseases. *Sci Rep*. 2017 Feb 24;7:43155. PMID: 28233859; PMCID: PMC5324099.
19. 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. PMID: 27225340.
20. 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). pii: 2807. PMID: 21841756; PMCID: PMC3197438.
21. Shao J, Lai D, Meyer U, Luksch H, Wessel R. Generating oscillatory bursts from a network of regular spiking neurons without inhibition. *J Comput Neurosci*. 2009 Dec;27(3):591-606. PMID: 19572191; PMCID: PMC2860425.
22. Vega-Zuniga T, Marín G, González-Cabrera C, Planitscher E, Hartmann A, Marks V, Mpodozis J, Luksch H. Microconnectomics of the pretectum and ventral thalamus in the chicken (*Gallus gallus*). *J Comp Neurol*. 2016 Aug 1;524(11):2208-29. PMID: 26659271.
23. Vega-Zuniga T, Mpodozis J, Karten HJ, Marín G, Hain S, Luksch H. Morphology, projection pattern, and neurochemical identity of Cajal's "centrifugal neurons": the cells of origin of the tectoventrete pathway in pigeon (*Columba livia*) and chicken (*Gallus gallus*). *J Comp Neurol*. 2014 Jul 1;522(10):2377-96. PMID: 24435811; PMCID: PMC4011500.
24. Vieira PA, Korzus E. CBP-Dependent memory consolidation in the prefrontal cortex supports object-location learning. *Hippocampus*. 2015 Dec;25(12):1532-40. PMID: 25941038; PMCID: PMC4633403.
25. 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.
26. Wu Q, Kolb I, Callahan BM, Su Z, Stoy W, Kodandaramaiah SB, Neve R, Zeng H, Boyden ES, Forest CR, Chubykin AA. Integration of autopatching with automated pipette and cell detection in vitro. *J Neurophysiol*. 2016 Oct 1;116(4):1564-1578. PMID: 27385800; PMCID: PMC5144721.
27. Xiao C, Shao XM, Olive MF, Griffin WC 3rd, Li KY, Krnjević K, Zhou C, Ye JH. Ethanol facilitates glutamatergic transmission to dopamine neurons in the ventral tegmental area. *Neuropsychopharmacology*. 2009 Jan;34(2):307-18. PMID: 18596684; PMCID: PMC2676579.

28. 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.