

Publications

1. Fieber, L.A., Kron, N.S., Greer, J.B., Rooney, H., Prostko, R.A., Stieglitz, J.D., Grosell, M., and P. R. Gillette. 2018. A comparison of hatchery-rearing in exercise to wild animal physiology and reflex behavior in *Aplysia californica*. CBP-A, 221-24-31. [doi:10.1016/j.cbpa.2018.03.006](https://doi.org/10.1016/j.cbpa.2018.03.006)
2. Greer, J.B., S. Khuri and L.A. Fieber. 2017. Phylogenetic analysis of ionotropic L-glutamate receptor genes in *Aplysia californica*. BMC Evolutionary Biology 17:11. doi:10.1186/s12862-016-0871-1
3. L. A. Fieber, 2016. Neurotransmitters and Neuropeptides of Invertebrates, In: The Oxford Handbook of Invertebrate Neurobiology, John H. Byrne (ed.). Oxford University Press
4. David, K., Tanabe, P. and L.A. Fieber. 2016. Resource availability drives mating role choice in a simultaneous hermaphrodite, *Aplysia californica*. Biol Bull. 231(3): 199-206. doi:10.1086/691067.
5. Kempzell, A.T. and L. A. Fieber. 2016. Habituation in the tail withdrawal reflex circuit is impaired during aging in *Aplysia californica*. Front. Aging Neurosci. 8:24. doi:10.3389/fnagi.2016.00024.
6. A.T. Kempzell and L. A. Fieber. 2015. Age-related deficits in synaptic plasticity rescued by activating PKA or PKC in sensory neurons of *Aplysia californica*. Front. Aging Neurosci. 7:173. doi:10.3389/fnagi.2015.00173
7. T. Kempzell and L. A. Fieber. 2015. Aging in sensory and motor neurons results in learning failure in *Aplysia californica*. PLoS ONE 10(5): e0127056. doi:10.1371/journal.pone.0127056
8. T. Kempzell and L. A. Fieber. 2014. Behavioral aging is associated with reduced sensory neuron excitability in *Aplysia californica*. Front. Aging Neurosci. 6: 84. doi: 10.3389/fnagi.2014.00084
9. L. A. Fieber, S. L. Carlson, A. T. Kempzell, J. B. Greer and M. C. Schmale. 2013. Isolation of sensory neurons of *Aplysia californica* for patch clamp recordings of glutamatergic currents. J. Visual Exp July 10;(77):e50543, doi:10.3791/50543 PMC ID PMC3732093
10. W. Wang, D. D. Simovic, M. Di, L. A. Fieber and K. S. Rein. 2013. Synthesis, receptor binding and activity of iso and azakainoids. Bioorg. Med. Chem. Lett. 23(7):1949-1952.

11. L. Hu, J.B. Greer, H. Solo-Gabriele, L.A. Fieber, and Y. Cai. 2013. Arsenic toxicity in the human nerve cell line SK-N-SH in the presence of chromium and copper. *Chemosphere* 91(8):1082-1087. doi:10.1016/j.chemosphere.2013.01.005.
12. L. A. Fieber, J. B. Greer, F. Guo, D. L. Crawford, and K. S. Rein. 2012. Gene expression profiling of human liver carcinoma (HepG2) cells exposed to the hepatotoxin okadaic acid. *Toxicological and Environmental Chemistry*, 94(9):1805-1821. doi:10.1080/02772248.2012.730199
13. S. L. Carlson, A. T. Kempzell and L. A. Fieber. 2012. Pharmacological evidence that D-Aspartate activates a current distinct from ionotropic glutamate receptor currents in *Aplysia californica*. *Brain Behav.* 2:391-401. doi:10.1002/brb3.60
14. J. A. Litz, C. R. Hughes, P. E. Rosel, L. A. Fieber, and L. P. Garrison. 2012. Genetic structure of coastal bottlenose dolphins (*Tursiops truncatus*) inhabiting adjacent South Florida estuaries - Biscayne Bay and Florida Bay. *J. Cetacean Res. Mgmt.* 12:107-117.
15. S. L. Carlson and L. A. Fieber. 2012. Unique ionotropic receptors for D-Aspartate are a target for serotonin-induced synaptic plasticity in *Aplysia californica*, *Comp. Biochem. Physiol C.* 155:151-159. doi:0.1016/j.cbpc.2011.04.001
16. S. L. Carlson and L. A. Fieber. 2011. Physiological evidence that D-Aspartate activates a current distinct from ionotropic glutamate receptor currents in *Aplysia californica*. *J. Neurophysiol.* 106:1629-1636. Doi: 10.1152/jn.00403.2011
17. L. A. Fieber, S. L. Carlson, T. R. Capo and M. C. Schmale. 2010. Changes in D-Aspartate ion currents in the *Aplysia* nervous system with aging. *Brain Research* 1343:28-36. doi: 10.1016/j.brainres.2010.05.001
18. H. Mao, L. A. Fieber and R. E. Gawley. 2010. Novel modulator of Nav1.1 and Nav1.2 Na⁺ channels in neuronal rat cells. *ACS Medic. Chem. Lett.* 1:135-138.
19. A.R. Hasan, L. Hu, H. M. Solo-Gabriele, L. Fieber, and Y. Cai. 2010. Field-scale leaching of arsenic chromium and copper from weathered treated wood. *Environ. Pollut.* 158:1479–1486.
20. L. Hu, C. Diez-Rivas, H. Solo-Gabriele, L. Fieber, A. R. Hasan, and Y. Cai. 2010. Transport and interaction of arsenic, chromium, and copper associated with CCA-treated wood in columns of sand amended with peat. *Chemosphere* 78:989–995.
21. Fieber, L.A., and M.C. Schmale. 2008. Aquatic Animal Neurophysiological Models, In: *Oceans and Human Health: Risks and Remedies from the Sea* Walsh, P.J., S.L. Smith, L.E. Fleming, H. Solo-Gabriele, W.H. Gerwick (eds.). Elsevier Science Publishers, New York.

22. J. A. Litz, L. P. Garrison, L. A. Fieber, A. Martinez, J. P. Contillo and J. R. Kucklick. 2007. Fine-scale spatial variation of persistent organic pollutants in bottlenose dolphins (*Tursiops truncatus*) in Biscayne Bay, Florida. *Environ. Sci. Technol.* 41:7222-7228.
23. Gerdes, R., and Fieber, L. A. 2006. Life history and aging of captive-reared California sea hares (*Aplysia californica*). *J. Amer. Assn. Lab. An. Sci.* 45:40-47.
24. Stommes, D., L. A. Fieber, C. Beno, R. Gerdes, and T. R. Capo. 2005. Temperature effects on growth, maturation and lifespan of the California sea hare. *Contemp. Topics Lab. An. Sci.* 44:31-35.
25. Fieber, L. A., M. C. Schmale, N. Jordi, E. Orbesen, G. A. Diaz and T. R. Capo. 2005. Von Bertalanffy growth models for hatchery-reared *A. californica*. *Bull. Mar. Sci.* 76:95-104.
26. Capo, T. R., L. A. Fieber, D. L. Stommes, and P. J. Walsh. 2003. Reproductive output in the hatchery-reared California sea hare at different stocking densities. *Contemp. Topics Lab. An. Sci.* 42:31-35.
27. Fieber, L. A., D. M. González, M. R. Wallace, and D. Muir. 2003. Delayed rectifier K currents in NF1 Schwann cells. Pharmacological block inhibits proliferation. *Neurobiol. Dis.* 13: 136-146.
28. Fieber, L.A. 2003. Voltage-gated ion currents of Schwann cells in cell culture models of human neurofibromatosis. *J. Exp. Zool.* 300A:76-83.
29. Capo, T. R., L. A. Fieber, D. L. Stommes, and P. J. Walsh. 2002. The effect of stocking density on growth rate and maturation time in laboratory-reared California sea hares. *Contemp. Topics Lab. An. Sci.* 41:25-30.
30. Purkerson-Parker, S. L., Fieber, L. A., Rein, K. S., Podona, T., and Baden, D. G. 2000. Brevetoxin derivatives that inhibit toxin activity. *Chem. & Biol.* 7:385-393.
31. Fieber, L. A. 2000. The development of excitatory capability in *Aplysia californica* bag cells observed in cohorts. *Devel. Brain Res.* 122:47-58.
32. Purkerson, S. L., Baden, D. G. and Fieber, L. A. 1999. Brevetoxin modulates neuronal sodium channels in two cell lines derived from rat brain. *Neurotox.* 20(6): 909-920.
33. Fieber, L. A. 1998. Ionic currents in normal and neurofibromatosis type 1-affected human Schwann cells: induction of tumor cell K current in normal Schwann cells by cyclic AMP. *J. Neurosci. Res.* 54:495-506.

34. Fieber, L.A. 1998. Characterization of Na^+ and Ca^{2+} in bag cells of sexually immature *Aplysia californica*. J. Exp. Biol. 201:745-754.
35. Fieber, L. A. 1997. Single K channel currents in Schwann cells from normal and neurofibromatosis-affected damselfish. J. Neurosci. Res. 48: 342-351.
36. Fieber, L.A. 1995. Characterization and hormonal modulation of Na^+ and Ca^{2+} currents underlying the action potential in bag cells in two species of *Aplysia*. J. Exp. Biol. 198: 2337-2347.
37. Fieber, L.A., and M.C. Schmale. 1994. Differences in a K current in Schwann cells from normal and neurofibromatosis-infected damselfish. Glia 11: 64-72.
38. Fieber, L.A., and E.W. McCleskey. 1993. L-type calcium channels in type I cells from the rat carotid body. J. Neurophysiol. 70:1378-1384.
39. McCleskey, E.W., M.D. Womack and L.A. Fieber. 1993. Structural properties of voltage dependent calcium channels in Receptors, Transporters and Membrane Proteins; "Molecular Biology of Membrane Transport" M. Friedlander and M. Muechler, eds. Intl. Rev. Cytol. 137C:39-54.
40. Fieber, L.A., and D.J. Adams. 1991. Acetylcholine-evoked currents in cultured neurones dissociated from rat parasympathetic cardiac ganglia. J. Physiol. 434: 215-237.
41. Fieber, L.A. and D.J. Adams. 1991. Adenosine triphosphate-evoked currents in cultured neurones dissociated from rat parasympathetic cardiac ganglia. J. Physiol., 434:239-256.
42. Seabrook, G.R., L.A. Fieber and D.J. Adams. 1990. Neurotransmission in the neonatal rat cardiac ganglion in situ. Am. J. Physiol. 259:H997-1005.
43. Kozlovskis, P.L., L.A. Fieber, D.K. Pruitt, B.K. Bailey, M.J.D. Smets, A.L. Bassett, S. Kimura and R.J. Myerburg. 1987. Myocardial changes during the progression of left ventricular pressure-overload by renal hypertension or aortic constriction: Myosin, myosin ATPase and collagen. J. Mol. Cell. Cardiol. 19:105-114.
44. Kozlovskis, P.L., Fieber, L.A., Bassett, A.L. Cameron, J.S., Kimura, S., and Myerburg, R.J. 1986. Regional reduction in ventricular norepinephrine after heal of experimental myocardial infarction in cats. J. Mol. Cell. Cardiol. 18:413-422.
45. Fieber, L.A. and P.L. Lutz. 1985. Magnesium and calcium metabolism during molting in the freshwater prawn. Macrobrachium rosenbergii. Can. J. Zool. 63:1120-1124.

46. Fieber, L.A. and P.L. Lutz. 1982. Calcium requirements for molting in Macrobrachium rosenbergii. J. World Maric. Soc. 13:21-27.