

1. Schmajuk NA and Blair HT, "Place learning and the dynamics of spatial navigation: A neural network approach", *Adaptive Behavior*, 1:353 - 385 (1993) Research Article

2. Schmajuk NA and Blair HT, "Dynamics of spatial navigation: An adaptive neural network", In: *Proceedings of the Second Annual International Congress on Simulation of Adaptive Behavior*, J.A. Meyer, H.L. Roitblat (Eds.), Cambridge: MIT Press, 243-261 (1993) Book Chapter

3. Schmajuk NA, Thieme AD and Blair HT, "Maps, routes and the hippocampus: A neural network approach", *Hippocampus*, 3:387 - 400 (1990) Research Article

4. Blair HT, "Evaluating connectionist models in psychology and neuroscience", In: *Proceedings of the 1993 Connectionist Models Summer School*, MC Mozer, P Smolensky, DS Touretzky, JL Elman and AS Weigend (Eds.), Hillsdale, NJ: Lawrence Erlbaum & Associates, 20-27 (1994) Book Chapter

5. Schmajuk NA and Blair HT, "Stimulus configuration, spatial learning, and hippocampal function", *Behavioural Brain Research*, 59:103 - 117(1995) Research Article

6. Rosenfeld JP, Cha G, Blair HT and Gotlib IH, "Operant (biofeedback) control of left-right frontal alpha power differences: Potential neurotherapy for affective disorders", *Journal of Applied Neurophysiology*, 20:241 - 248(1995) Research Article

7. Sharp PE, Blair HT, Etkin D and Tzanetos DB, "Influences of vestibular and visual motion information on the spatial firing patterns of hippocampal place cells", *Journal of Neuroscience*, 15:173 - 189 (1995) Research Article

8. Blair HT and Sharp PE, "Anticipatory head-direction cells in anterior thalamus: Evidence for a thalamocortical circuit that integrates angular head motion to compute head direction", *Journal of Neuroscience*, 15:6260 - 6270 (1995) Research Article

9. Schmajuk NA and Blair HT, "Time, space and the hippocampus", In: *Neurobehavioral Plasticity: Learning, Development, and Response to Brain Insults*, NE Spear, LP Spear, and ML Woodruff (Eds.), Hillsdale, NJ: Lawrence Erlbaum & Associates, 33-56 (1995) Book Chapter

10. Blair HT and Sharp PE, "Visual and vestibular influences on head-direction cells in the anterior thalamus of the rat", *Behavioral Neuroscience*, 110:643 - 660 (1996) Research Article

11. Blair HT, "A thalamocortical circuit for computing directional heading in the rat", In: *Advances in Neural Information Processing Systems 8*, DS Touretzky, MC Mozer, and ME Hasselmo (Eds.), Cambridge, MA: MIT Press, 152-158 (1996) Book Chapter

12. Sharp, PE, Blair HT, and Brown MA, "Neural network modeling of the hippocampal formation spatial signals and their possible role in navigation: A modular approach", *Hippocampus*, 6:720 - 734 (1997) Research Article

13. Blair HT, Lipscomb BW, and Sharp PE, "Anticipatory time intervals of head-direction cells in the anterior thalamus of the rat: Implications for path integration in the head-direction circuit", *Journal of Neurophysiology*, 78:145 - 159 (1997) Research Article

14. Blair HT, Cho J and Sharp PE, "Role of the lateral mammillary nucleus in the rat head direction circuit: A combined single unit recording and lesion study", *Neuron*, 21:1387 - 1397 (1998) Research Article

15. Blair HT, Sharp PE, Cho J, Goodridge JP, Stackman RW, Golob EJ, and Taube JS, "Path Integration in the rat head-direction circuit", In: Computational Neuroscience: Trends in Research, JM Bower (Ed.), New York: Plenum Press, 579-584 (1998) Book Chapter
16. Blair HT, Cho J, and Sharp PE, "The anterior thalamic head-direction signal is abolished by bilateral but not unilateral lesions of the lateral mammillary nucleus", *Journal of Neuroscience*, 19:6673 - 6683 (1999) Research Article
17. Blair HT and LeDoux JE, "Functional Role of N-Methyl-D-Aspartate Receptors in the Lateral Amygdala", In: Biophysical Neural Networks, R.R. Posnanski (Ed.), New York: Oxford University Press, 95-122 (2000) Book Chapter
18. Sharp PE, Blair HT, and Cho J, "The anatomical and computational basis of the rat head-direction cell signal", *Trends in Neurosciences*, 24:289 - 294 (2001) Review Article
19. Schafe GE, Nader, K., Blair, H.T., and LeDoux, J.E., "Memory consolidation of Pavlovian fear conditioning: A cellular and molecular perspective", *Trends in Neurosciences*, 24:540 - 546 (2001) Review Article
20. Blair, H.T., Schafe, G.E., Bauer, E.P., Rodrigues, S.M., and LeDoux J.E., "Synaptic plasticity in the lateral amygdala: A cellular hypothesis of fear conditioning", *Learning and Memory*, 8:229 - 242 (2001) Review Article
21. Blair, H.T., and Sharp P.E., "Functional Organization of the Rat Head-Direction Circuit", In: *The Neural Basis of Navigation: Evidence from Single-Cell Recording*, Norwell, MA: Kluwer Academic Publishers, 163-182 (2001) Book Chapter
22. Moita, M.A.P., Rosis, S., Zhou, Y., LeDoux, J.E., and Blair, H.T., "Hippocampal Place Cells Acquire Location-Specific Responses to the Conditioned Stimulus During Auditory Fear Conditioning", *Neuron*, 37:485 - 497 (2003) Research Article
23. Blair, H.T., Tinkelman, A., Moita, M.A.P., LeDoux, J.E., "Associative Plasticity in Neurons of the Lateral Amygdala During Auditory Fear Conditioning", In: *The Amygdala in Brain Function: Basic and Clinical Approaches*, P.Shinnick-Gallagher, A. Pitkanen, A., Shekhar, and L. Cahill (Eds.), *Annals of the New York Academy of Sciences*, 985:485 - 487 (2003) Book Chapter
24. Moita, M.A.P., Rosis, S., Zhou, Y., LeDoux, J.E. & Blair, H.T., "Putting fear in its place: Remapping of hippocampal place cells during fear conditioning", *Journal of Neuroscience*, 24:7015 - 7023 (2004) Research Article
25. Blair, H.T., Sotres-Bayon, F., Moita, M.A.P., & LeDoux, J.E., "The lateral amygdala processes the value of conditioned and unconditioned aversive stimuli", *Neuroscience*, 133:561 - 569 (2005) Research Article
26. Blair, H.T., Huynh, V.K., Vaz, V.T., Van, J., Patel, R.R., Hiteshi, A.K., Lee, J.E., & Tarpley, J.W., "Unilateral storage of fear memories by the amygdala", *Journal of Neuroscience*, 25:4198 - 4205 (2005) Research Article
27. Blair HT, Welday AC, Zhang K, "Scale-invariant memory representations emerge from moiré interference between grid fields that produce theta oscillations: A computational model", *Journal of Neuroscience*, 27:3211 - 3229 (2007) Research Article
28. Kim, J.J., Lee, H.J., Welday, A.C., Song, E.Y., Cho, J., Sharp, P.E., Jung M.W., & Blair, H.T., "Stress-induced alterations in hippocampal plasticity, place cells, and spatial memory", *Proceedings of the National Academy of Sciences of the USA*, 104(46):18297 - 18302 (2007) Research Article

29. Blair HT, Nader K, Schafe GE, Bauer EP, Rodrigues SM, Ledoux, JE, "The role of the lateral nucleus of the amygdala in auditory fear conditioning", In: Topics in Integrative Neuroscience: From Cells to Cognition, James R. Pomerantz (Ed.), Cambridge University Press, (2007) Book Chapter
30. Blair HT, Gupta K, Zhang K, "Conversion of a phase- to a rate-coded position signal by a three-stage model of theta cells, grid cells, and place cells", *Hippocampus*, 18:1239 - 1255 (2008) Research Article
31. Tarpley, J.W., Shlifer, I.G., Birnbaum, M.S., Halladay, L.R., Blair, H.T., "Bilateral phosphorylation of ERK in the lateral and centrolateral amygdala during unilateral storage of fear memories", *Neuroscience*, 164(3):908 - 917 (2009) Research Article
32. Fridman, G.Y., Blair, H.T., Blaisdell, A.P., Judy, J.W., "Perceived intensity of somatosensory cortical electrical stimulation", *Experimental Brain Research*, 203:499 - 515 (2010) Research Article
33. Johansen, J.P., Tarpley, J.W., LeDoux, J.E., Blair, H.T., "Neural substrates for expectation-modulated fear learning in the amygdala and periaqueductal gray", *Nature Neuroscience*, 13(8):979 - 986 (2010) Research Article
34. Johansen, J.P., Hamanaka, H., Monfils, M.H., Behnia, R., Deisseroth, K., Blair, H.T., LeDoux, J.E., "Optical activation of lateral amygdala pyramidal cells produces associative fear learning", *Proceedings of the National Academy of Sciences USA*, 107:12692 - 12697 (2010) Research Article
35. Tarpley, J.W., Shlifer, I.G., Halladay, L.R., Blair, H.T., "Conditioned turning behavior: A Pavlovian fear response expressed during the post-encounter period following aversive stimulation", *Neuroscience*, 169(4):1689 - 1704 (2010) Research Article
36. Bissiere, S., Ponnusamy, R., Jacobs, N.S., Zelikowsky, M., Blair, H.T., Fanselow, M.S., "Electrical synapses control hippocampal contributions to fear learning and memory", *Science*, 331(6013):87 - 91 (01/07/2011) Research Article
37. McNally G.P., Johansen J.P., Blair H.T., "Placing prediction into the fear circuit", *Trends in Neurosciences*, 34(6):283 - 292 (June 2011) Review Article
38. Welday, A.C., Shlifer, I.G., Bloom, M.L., Zhang, K., Blair, H.T., "Cosine Directional Tuning of Theta Cell Burst Frequencies: Evidence for Spatial Coding by Oscillatory Interference", *Journal of Neuroscience*, 31(45):16157 - 16176 (11/09/2011) (title change) Research Article
39. Halladay LR, Zelikowsky M, Blair HT, Fanselow MS, "Reinstatement of extinguished fear by an unextinguished conditioned stimulus", *Frontiers in Behavioral Neuroscience*, 6(18):1 - 7 (05/04/2012) PMID: 22586379 Research Article
40. Halladay LR, Blair HT, "The role of mu-opioid receptor signaling in the dorsolateral periaqueductal gray in conditional and unconditional responding to threatening and aversive stimuli", *Neuroscience*, 16:82 - 93 (2012) Research Article
41. Blair HT, Wu D, Cong, J, "Oscillatory neurocomputing with ring attractors: A network architecture for mapping locations in space onto patterns of neural synchrony", *Philosophical Transactions B of the Royal Society*, 1-15 (2013) url: <http://rstb.royalsocietypublishing.org/content/369/1635/20120526.full> Research Article
42. Blair HT, Cong J, Wu D, "FPGA simulation engine for customized construction of neural microcircuits", *Proceedings of the 2013 International Conference on Computer-Aided Design*, 607-614 (2013) url: <http://dl.acm.org/citation.cfm?id=2561949> Research Article
43. Blair HT, "Charting the Islands of Memory", *Science*, 343:846 - 847 (2014) Invited Commentary

44. Blair HT, Fanselow MS, "Fear and memory: A view of the hippocampus through the lens of the amygdala", In: *Space, Time, and Memory in the Hippocampal Formation*, J.J. Knierim and D. Derdikman (Eds.), Wein: Springer-Verlag, 465-496 (2014) Book Chapter
45. Halladay LR, Blair HT, "Distinct ensembles of medial prefrontal cortex neurons are activated by threatening stimuli that elicit excitation vs. inhibition of movement", *J Neurophys*, 114:793 - 807 (2015) Research Article
46. Halladay LR, Blair HT, "Prefrontal infralimbic cortex mediates competition between excitation and inhibition of body movements during pavlovian fear conditioning", *J Neurosci Res*, 1-10 (2016) url: doi: 10.1002/jnr.23736 Research Article
47. Chen Z, Howe A, Blair HT, Cong J., "CLINK: Compact LSTM Inference Kernel for Energy Efficient Neurofeedback Devices", *International Symposium on Low Power Electronics and Design (ISLPED)*, 1-6 (07/23/2018) Research Article
48. Chen Z, Blair HT, Cong J., "LA-NoRMCorre: LSTM-Assisted Non-Rigid Motion Correction on FPGA for Calcium Image Stabilization", *27th ACM/SIGDA International Symposium on Field-Programmable Gate Arrays (FPGA)*, 1-6 (02/24/2019) Research Article
49. Monaco JD, De Guzman RM, Blair HT, Zhang K, "Spatial synchronization codes from coupled rate-phase neurons", *PLOS Computational Biology*, doi: 10.1371/journal.pcbi.1006741, 15(e1006741):1 - 42 (2019) url: PMID: 30682012 Research Article
50. Jayakumar RP, Madhav MS, Savelli F, Blair HT, Cowan NJ, Knierim JJ, "Recalibration of path integration in hippocampal place cells", *Nature*, doi: 10.1038/s41586-019-0939-3, 566(7745):533 - 537 (February 2019) url: PMID: 30742074 Research Article
51. R. Grgrich, K. Zhang, H.T. Blair, "An uncertainty principle for neural coding: Conjugate representations of position and velocity are mapped onto firing rates and co-firing rates of neural spike trains", *Hippocampus*, doi: 10.1002/hipo.23197 (February 2020) url: PMID: 32065487 Research Article