

## **CURRICULUM VITAE**

### **Barbara Knowlton**

Dept. of Psychology, Pritzker Hall  
UCLA  
Los Angeles, CA, 90095-1563  
(310) 825-5917  
knowlton@psych.ucla.edu

### **Positions held**

Professor of Psychology, UCLA (2004-present)  
Vice Chair for Undergraduate Programs, Psychology, UCLA (2002-present)  
Associate Professor of Psychology, UCLA (2001-2004)  
Assistant Professor of Psychology, UCLA (1995-2001)  
Post-doctoral Fellow, laboratory of Dr. Larry Squire, Dept. of Psychiatry, UC San Diego (1991-1995).  
Fulbright Junior Researcher, Dept. of Psychology, Tel Aviv University (1990)  
Graduate Research Assistant, laboratory of Dr. Richard Thompson, Stanford University (1984-1987), and University of Southern California (1987-1990)

### **Education**

Doctor of Philosophy in Neuroscience, Stanford University, 1990  
Bachelor of Arts in Psychology, Johns Hopkins University, 1984

### **Awards and Honors**

Fellow, Association for Psychological Science, 2019  
UCLA Psychology Graduate Students Association Arthur Woodward Mentorship Award 2015  
UCLA Department of Psychology Distinguished Service Award 2013  
Fellow, Hanse Institute for Advanced Study, 2002  
G. Stanley Hall Prize for Excellence in Psychology, 1984  
Graduated from Johns Hopkins University with General and Departmental Honors, 1984  
National Merit Scholar 1981-4

### **Extramural Grant and Fellowship Support (PI or Co-PI)**

NIMH/NIDA (PI) The Effects of Early Life Stress on the Neural Mechanisms Supporting Instrumental Behavior (2018-2021)  
NSF (PI) Investigating the Neural Substrates of Learning that Supports Transfer 2016-19  
Scientific Research Network for Decision Neuroscience and Aging (subaward under National Institutes of Health grant AG039350) (Co-PI) 2012-14  
NSF (PI) Subregional Analysis of Human Medial Temporal Lobe in Human Episodic Memory 2009-11  
ONR (Co-PI) Analogical Reasoning: Integration of Neural, Behavioral and Computational Analyses 2008-11.

NIH/NIMH RO3 (Co-PI) Neural Substrates of Analogical Reasoning 2005-7  
NSF CAREER Award (PI) Mnemonic Functions of the Basal Ganglia 2000-5  
James S. McDonnell Foundation Grant in Cognitive Rehabilitation (PI) Applying Contextual Interference Paradigms to a Rehabilitation Setting”, 1997-9  
NIMH Post-doctoral Fellowship, 1992-5  
McDonnell-Pew Post-doctoral Fellowship in Cognitive Neuroscience, 1991-2  
Fulbright Fellowship, 1990  
NSF Graduate Fellowship 1984-7

### **Professional Societies**

Society for Neuroscience  
Psychonomic Society  
Cognitive Neuroscience Society  
Association for Psychological Science  
Memory Disorders Research Society (by invitation)  
Center for the Neurobiology of Learning and Memory (by invitation)  
Society of Experimental Psychologists (by invitation)

### **Service – Academic**

Member, California Community College-UC System Transfer Task Force (2020-present)  
Chair, UCLA Committee on Undergraduate Admission and Relations with Schools (2019-present)  
Member, California State University General Education Task Force (2017-2018)  
Chair, University of California Education Policy Committee (2016-2017)  
Vice-Chair for Undergraduate Programs, Department of Psychology, UCLA (2002-present)  
Vice Chair, UCLA Undergraduate Council (2014-2015)  
Interim Associate Director for Research, Brain Research Institute, UCLA (2005)

### **Service-Editorial**

Senior Editor, Psychological Science (2020- Present)  
Associate Editor, Neuropsychology, (2001-2006)  
Consulting Editor, Journal of Experimental Psychology: Learning, Memory, and Cognition (2000-2005, Behavioral Neuroscience (2002-2004), Cognitive Science (2005-2008)  
Regular contributor to the “Paper Alerts” section, Current Opinion in Neurobiology (1997-2000)

### **Service-Federal Agencies**

Member, NIH/NIDDK Working Group to Establish a Core Neuropsychological Battery for Obesity and Diabetes, 2018  
Member, NSF Advisory Panel member 2001-2002, 2010, 2017-2018  
Member, NIA/NIMH Challenge Grants Panel- 2009  
Member, NIA/NIMH ARRA P30 Review Panel- 2009  
Member, NIA/NIH Review Panel -Neural and Behavioral Profiles of Cognitive Aging- 2009  
Member, NSF Science of Learning Centers Site Visit Review Panel, 2008  
Member, NIMH/NIH Ruth Kirchstein Fellowship Review Panel, 2003

## **Service, Professional Societies**

Member, Awards Committee, Society of Experimental Psychologists, 2019

Member, Review Committee, J. Frank Yates Student Travel Awards, Psychonomic Society, 2018

Member, Program Committee, International Conference on Learning and Memory, 2018.

Member, Glushko Dissertation Prize Selection Committee, Cognitive Science Society, 2017-present

Co-Organizer, International Conference on Memory VI, 2016

Abstract Referee, National Academy of Neuropsychology Annual Meeting 2016-2017

Member, Executive Committee, Society of Experimental Psychologists, 2015-present, Chair, 2015

Abstract Referee, Organization for Human Brain Mapping Annual Meeting 2009, 2017-2018, 2020

Member, Selection Committee, APA Early Career Award in Behavioral and Cognitive Neuroscience, 2008

Member, Program Committee, International Basal Ganglia Society 2007

Member, Program Committee, Cognitive Science Society 2005

Member, Cognitive Neuroscience Society Young Investigator Award Committee 2002-2005, Chair, 2006

## **Teaching**

Behavioral Neuroscience (undergraduate)

Introduction to Psychobiology (undergraduate)

Human Neuropsychology (undergraduate)

Cognitive Neuroscience (undergraduate)

Memory, A User's Guide (Fiat Lux Freshman Seminar)

Molecules to Mind (undergraduate, co-taught)

Mind over Matter General Education cluster (undergraduate co-taught)

Introductory Psychology (undergraduate co-taught)

Laboratory in Behavioral Neuroscience (undergraduate, co-taught)

Laboratory in Neuroscience (undergraduate, co-taught)

Neuropsychology of Perception (graduate)

Neuropsychology of Memory (graduate)

Modulation of Affective Memory (graduate, co-taught)

Current Literature in Neuroscience (graduate, co-taught)

## **Invited Presentations**

Symposium on the Neuropsychology of Memory, American Psychological Association, Los Angeles, CA, August, 1994.

18th International Symposium on Brain Sciences: Emotion, Memory, and Behavior-Study of Human and Non-human Primates, Kohala Coast, HI, February, 1995.

Seminar, Dept. of Psychology, Pomona College, Claremont, CA, February, 1996

Symposium on Remembering and Knowing the Past, Second International Conference on Memory, Abano Terme, Italy, July, 1996

Colloquium, Dept. of Psychology, Carnegie Mellon University, Pittsburgh, PA, October, 1996

Seminar, Dept. of Psychology, UC Santa Barbara, February, 1997

Symposium on the Neuropsychology of Memory, Theoretical and Experimental Neuropsychology Conference XIII (TENNET), Montreal, Canada, June 1997

Symposium on Familiarity and Recollection: Components of Recognition Memory, 9th Annual Meeting of the Memory Disorders Research Society, San Francisco, CA, November, 1997

Symposium on Alternate Mechanisms for Motor and Visuospatial Cognition, American Association for the Advancement of Science Annual Meeting, Philadelphia, PA, February 1998.

James S. McDonnell Foundation Inaugural Symposium on Cognitive Rehabilitation, St Louis, MO, September, 1998

Colloquium, Dept. of Biokinesiology, University of Southern California, September, 1998.

Symposium on Alzheimer's Disease: The Relevance of Transgenics and Knockouts to Understanding Pathogenesis, Los Angeles, CA, March, 1999

Seminar, UCSF Memory Disorders Clinic Retreat, San Francisco, CA, September, 1999

Colloquium, Dept. of Psychology, Northwestern University, Evanston, IL., October 1999

Colloquium, Program in Computation and Neural Science, Caltech, Pasadena, CA, April 2000

Workshop sponsored by the John Douglas French Alzheimer's Disease Foundation, Redondo Beach, CA May, 2000

Colloquium, Neuroscience Program, University of Southern California, Los Angeles, CA September, 2000

Symposium on the Role of the Prefrontal Cortex in Cognition (organizer) 13<sup>th</sup> Annual Winter Conference on Neural Plasticity, Antigua, West Indies, February, 2001

Colloquium, Dept. of Brain and Cognitive Sciences, MIT, Cambridge, MA, March, 2001

Workshop on Biomarkers for Huntington's Disease sponsored by the Hereditary Disease Foundation, Playa del Rey, CA, June 2001

Lecturer, Course on Mouse Behavioral Analysis, Cold Spring Harbor Laboratory, New York, July 2001 and 2003

Symposium on Categorization, Third International Conference on Memory, Valenica, Spain, July 2001

Workshop on Neuroscience for Novel Intelligence sponsored by the National Imagery and Mapping Agency, Hot Springs, VA, August, 2001

Symposium on Dissociating Basal Ganglia and Medial Temporal Lobe Contributions to Learning: Implications for Understanding the Cognitive Deficits in Parkinson's Disease, Society for Neuroscience 31<sup>st</sup> Annual Meeting, San Diego, CA November 2001.

Colloquium, Dept. of Psychology, Ruhr University-Bochum, February 2002

Symposium on Functional and Clinical Neuroanatomy. Conference on Binding in Human Memory, Saarbrueken, Germany, May 2002

Lecturer, Course in Cognitive Neuropsychology of Memory, 9<sup>th</sup> International Summer School in Cognitive Science, Sofia, Bulgaria, July, 2002.

Invited Talk, "Psychiatric manifestations of basal ganglia disorders" 17<sup>th</sup> Annual Meeting of the Society for Research on Psychopathology, San Francisco, September, 2002.

Colloquium, Dept. of Psychology, University of Arizona, Tuscon, AZ March 2003

Keynote Talk, Ohio State Cogfest, Ohio State University, Columbus, OH, March 2003

Workshop on Dopamine and Memory: Integrating Computational and Empirical Approaches, Newark, NJ March 2003.

Symposium on Cross-Species Comparisons, 2nd Annual Cognitive Neuroscience of Category

Learning Conference, New York, September, 2003  
Colloquium, Dept. of Psychology, UC San Diego, October, 2003  
Symposium on Cognitive Control American Psychological Association 112<sup>th</sup> Annual Meeting, Honolulu, Hawaii, July 2004  
Workshop on the Cognitive Phenotype of Huntington's Disease, sponsored by the Hereditary Disease Foundation, New York, July 2004.  
Symposium on Human Memory Representation, Winter Conference on the Neurobiology of Learning and Memory (Conference-Co-organizer), Park City Utah, January, 2005  
Symposium on The Past, Present, and Future of Cognitive Psychology, Cal. State Sacramento, February, 2005  
Symposium on Neurocognitive Processes in Tobacco and Alcohol Trajectories. 2<sup>nd</sup> East-West Conference on Tobacco and Alcohol: Culture, Environment and Genes, Pasadena, CA April 2005  
Tourette Syndrome Association Behavioral Consortium, San Antonio, TX, October 2005.  
Symposium on Animal and Human Models of Basal Ganglia Dysfunction, European Behavioral Pharmacology Society, Krakow, Poland, September 2006  
Symposium of Statistical Learning, 47<sup>th</sup> meeting of the Psychonomic Society, Houston, TX, November, 2006  
Colloquium, NIDA Intramural Research Program, Baltimore, MD February 2007  
Symposium on Functions of Human Medial Temporal Lobe (organizer) 19<sup>th</sup> Winter Conference on Neural Plasticity, Moorea, French Polynesia, February 2007  
Symposium on Behavioral Correlates of Basal Ganglia Function and Dysfunction, Ninth International Basal Ganglia Society Meeting, Egmond aan Zee, September, 2007  
Colloquium sponsored by NIH/MBRS Research Initiative for Scientific Enhancement at Cal State Fresno – February 2008  
Lecturer, Higher Cognition and Decision-Making, Summer Institute of Cognitive Neuroscience, Lake Tahoe, CA- July 2008  
Workshop on Cognitive Testing in Animal Models of Huntington's Disease sponsored by CHDI, Los Angeles, CA, October, 2008  
Colloquium, Gladstone Institute for Neurological Disease, San Francisco, CA January 2009  
Symposium on Brain Mechanisms of Analogy- 2<sup>nd</sup> International Conference on Analogy, Sofia Bulgaria, July 2009  
Keynote Speaker, NSF-sponsored Research Experiences for Undergraduates program, Colorado State University, Fort Collins, CO August 2009  
Symposium on Habit Learning and the Striatum, Annual Meeting of the Pavlovian Society, Burlington, VT, October 2009  
Colloquium, Center for Neuroscience, UC Davis, February, 2010.  
Speaker, 80<sup>th</sup> Birthday Festschrift for Richard F. Thompson, University of Southern California, Los Angeles, May, 2010  
Workshop on Psychophysiology of Huntington's Disease sponsored by CHDI, New York, NY September 2010.  
Colloquium, Department of Psychology, Texas A&M University, College Station, TX, September, 2010  
Symposium on Pattern Separation, 23<sup>rd</sup> Winter Conference on Neuroplasticity, Moorea, French Polynesia, February, 2011  
Inaugural Keynote Speaker, Brain Awareness Week, Miami University, Oxford, OH, March,

2011.

Bauer Colloquium Series, Brandeis University, Waltham, MA, March 2011

Colloquium, Laboratory of Integrative Neuroscience, University of Illinois, Chicago, September, 2011

Integrative Center for Learning and Memory Inaugural Symposium speaker, UCLA, February, 2012

11<sup>th</sup> Annual Southern California Learning and Memory Conference speaker, La Jolla, CA June 2012

Independence and Interaction of Memory Systems, Satellite Symposium, Society for Neuroscience Annual Meeting, New Orleans, LA, October, 2012

Brain Health Seminar Series, University of Michigan School of Kinesiology, Ann Arbor, MI November, 2012

Guest Lecturer, 2nd Annual Berkeley Interdisciplinary Research Conference- UC Berkeley, May 2013

Workshop on Cognitive Science (sponsored by NSF) at the International Joint Conference on Neural Networks, Dallas Texas August, 2013

Brown Bag Seminar, Social Psychology Area, Department of Psychology, University of Southern California, Los Angeles, September, 2013

Symposium on Early Life Stress and Learning (organizer), Annual Meeting of the Pavlovian Society, Seattle, WA, October, 2014

Brown Bag Seminar, Cognitive Psychology Area, Dept. of Psychology, UC Riverside, October, 2014

Symposium on Implicit Learning: Mechanisms, Computations and Systems (Sponsored by the European Society for Cognitive Psychology. First International Conference of Psychological Science, Amsterdam, Netherlands, March, 2015

Theme Speaker, Interdisciplinary Advances in Statistical Learning, San Sebastian, Spain, June, 2015

Speaker, Advances in the Science of Habits Conference, Two Harbors, Catalina Island, California, July, 2015

Brown Bag Seminar, Behavioral Neuroscience Area, Dept. of Psychology, University of Washington, Seattle, WA October 2015

Seminar, Loyola Interdisciplinary Neuroscience Program, Chicago, IL, November 2015.

Brown Bag Seminar, Cognitive Area, Dept. of Psychology, University of Washington, Seattle, WA, January 2016

Symposium Organizer: Brain Stimulation Methods for Memory Enhancement. Winter Conference on Neural Plasticity, Maui, Hawaii, February, 2016

Lecturer, 4<sup>th</sup> Bangalore Cognition Workshop, Indian Institute of Science, July, 2016

Symposium on Cognitive Control in Memory, Sixth International Conference on Memory, (Conference Co-organizer) Budapest, Hungary, July 2016.

Southern California Learning and Memory Symposium, Riverside CA, May 2017.

Colloquium, Claremont Colleges Neuroscience Program, Claremont, CA, October, 2017

Speaker, 50 Years of Implicit Learning Research: A Symposium in Honor of Arthur S. Reber at the 58<sup>th</sup> Annual Meeting of the Psychonomic Society, Vancouver, BC, November 2017.

Lecturer, 5<sup>th</sup> Bangalore Cognition Workshop, Indian Institute of Science, June, 2108.

Seminar, National Centre for Biological Sciences, Bangalore, India, July, 2018

Women in Learning invited talk, Meeting of the Pavlovian Society, Iowa City, October, 2018

Organizer, Symposium on New Ideas on the Function of the Cerebellum, 32<sup>nd</sup> Winter Conference on Neural Plasticity, St. Kitts, February 2020.

## **Publications**

1. Knowlton, B.J., Wenk, G.L., Olton, D.S., & Coyle, J. (1985). Basal forebrain lesions produce a dissociation between trial dependent and trial independent memory performance. Brain Research, 345, 315-321.
2. Knowlton, B.J., McGowan, M., Olton, D.S., & Gamzu, E. (1985). Hippocampal stimulation results in an impairment of working memory even eight hours after acquisition. Behavioral and Neural Biology, 44, 325-337.
3. Lavond, D.G., Knowlton, B.J., Steinmetz, J.E., & Thompson, R.F. (1987). Classical conditioning of the rabbit eyelid response with a mossy fiber stimulation CS: II. Lateral reticular nucleus stimulation. Behavioral Neuroscience, 101, 676-82.
4. Knowlton, B.J., Lavond, D.G., & Thompson, R.F. (1988). The effects of lesions of the cerebellar cortex on retention of the classically conditioned eyeblink response when stimulation of the lateral reticular nucleus is used as a conditioned stimulus. Behavioral and Neural Biology, 49, 293-301.
5. Knowlton, B.J., & Thompson, R.F. (1988). Microinjections of local anesthetic into the pontine nuclei reduce the amplitude of the classically conditioned eyeblink response. Physiology & Behavior, 43, 855-857.
6. Knowlton, B.J., & Thompson, R.F. (1989). Stimulation of the lateral septum acts as a much more effective CS than stimulation of the medial septum in the classically conditioned eyeblink response. Behavioral Neuroscience, 103, 206-208.
7. Knowlton, B.J., Shapiro, M.L., & Olton, D.S. (1989). Hippocampal seizures impair working memory performance but not reference memory acquisition. Behavioral Neuroscience, 103, 1144-1147.
8. Knowlton, B.J., Ramus, S. & Squire, L.R. (1992) Intact artificial grammar learning in amnesia: Dissociation of classification learning and explicit memory for specific instances. Psychological Science. 3, 172-179.
9. Knowlton, B.J., & Thompson, R.F. (1992) Conditioning using a cerebral cortical CS is dependent on the cerebellum and brainstem circuitry. Behavioral Neuroscience, 106, 509-517.
10. Squire, L.R., Knowlton, B., & Musen, G. (1993) The structure and organization of memory. Annual Review of Psychology , 44, 453-495.
11. Knowlton, B.J., Thompson, J.K. & Thompson, R.F. (1993) Projections from the auditory cortex to the pontine nuclei in the rabbit. Behavioural Brain Research, 56, 23-30.

12. Mintz, M. & Knowlton, B.J. (1993) Dissociation of kainic acid lesion effects on the asymmetry of rotation and lateral head movements. Brain Research Bulletin, *31*, 641-647.
13. Mintz, M., Knowlton, B.J. & Myslobodsky, M. (1993). The effect of solcoseryl on kainic acid induced seizures in the rat. Pharmacology, Biochemistry & Behavior, *45*, 55-58.
14. Knowlton, B.J., & Squire, L.R. (1993). The learning of categories: Parallel brain systems for item memory and category knowledge. Science. *262*, 1747-1749.
15. Knowlton, B.J. & Squire, L.R. (1994). The information acquired during artificial grammar learning. Journal of Experimental Psychology: Learning, Memory & Cognition. *20*, 79-91.
16. Knowlton, B.J. & Squire, L.R. (1994) Artificial grammar learning and implicit memory: Reply to Higham and Vokey. Psychological Science *5*, 61.
17. Knowlton, B.J., Squire, L.R. & Gluck, M.A. (1994). Probabilistic category learning in amnesia. Learning and Memory, *1*, 106-120.
18. Squire, L.R., Hamann, S., & Knowlton, B. (1994) Dissociable learning and memory systems of the brain. Behavioral and Brain Sciences. *17*, 422-423.
19. Squire, L.R. & Knowlton, B. J. (1995) Memory, hippocampus, & brain systems. In The Cognitive Neurosciences (M.Gazzaniga, ed.) Cambridge, MA; MIT Press. pp. 825-837.
20. Squire, L.R. & Knowlton, B. J. (1995) The organization of memory. In The Mind, the Brain, and Complex Adaptive Systems. (H. Morowitz & J. Singer, eds.) Reading, MA; Addison-Wesley. pp 63-97.
21. Knowlton, B.J. & Squire, L.R. (1995) Remembering and knowing: Two different expressions of declarative memory. Journal of Experimental Psychology: Learning, Memory, & Cognition. *21*, 699-710.
22. Knowlton, B.J. (1995) Category learning in amnesia. In Emotion, Memory and Behavior: Study of Human and Non-human Primates. (T. Nakajima & T. Ono, eds.) Boca Raton, FL; CRC Press. pp 105-115.
23. Squire, L.R. & Knowlton, B. J. (1995) Learning about categories in the absence of memory. Proceedings of the National Academy of Sciences, *92*, 12470-12474.
24. Knowlton, B.J. & Squire, L.R. (1996) Artificial grammar learning depends on implicit acquisition of both rule-based and exemplar-specific information. Journal of Experimental Psychology: Learning, Memory, & Cognition. *22*, 169-181.
25. Knowlton, B.J., Mangels, J.A., & Squire, L.R. (1996) A neostriatal habit learning system in



- humans. Science 273, 1399-1402.
26. Reber, P.J., Knowlton, B.J., & Squire, L.R. (1996) Dissociable properties of memory systems: Differences in the flexibility of declarative and nondeclarative knowledge. Behavioral Neuroscience 110, 859-869.
  27. Knowlton, B.J., Squire, L.R., Paulsen, J.S., Swerdlow, N., Swenson, M., & Butters, N. (1996) Dissociations within nondeclarative memory in Huntington's disease. Neuropsychology 10(4), 1-11.
  28. Knowlton, B.J. (1997) Declarative and nondeclarative knowledge: Insights from cognitive neuroscience. In Knowledge, Concepts and Categories. (K. Lamberts & D.Shanks, eds.) East Sussex, UK; Psychology Press. pp. 215-246.
  29. Knowlton, B.J. & Fanselow, M.S. (1998). The hippocampus, consolidation, and on-line memory. Current Opinion in Neurobiology. 8, 293-296.
  30. Knowlton, B.J. (1998) The relationship between remembering and knowing: A cognitive neuroscience perspective. Acta Psychologica, 98, 253-266.
  31. Waltz, J.A., Knowlton, B.J., & Holyoak, K.J. (1998) Relational complexity, the central executive, and prefrontal cortex. Behavioral and Brain Sciences, 21, 846-847 .
  32. Waltz, J.A., Knowlton, B.J., Holyoak, K.J., Boone, K.B., Mishkin, F.S., Santos, M.D., Thomas, C.R., & Miller, B.L. (1999). A system for relational reasoning in human prefrontal cortex. Psychological Science , 10, 119-125.
  33. Knowlton, B.J. (1999) What can neuropsychology tell us about category learning? Trends in Cognitive Science 3, 123-124.
  34. Anderson, B.J., Relucio, K., Haglund, K., Logan, C., Knowlton, B., Thompson, J. Steinmetz, J.E., Thompson, R.F., & Greenough, W.T. (1999). Effects of paired and unpaired eye-blink conditioning on Purkinje cell morphology. Learning & Memory, 6, 128-137.
  35. Knowlton, B.J. (1999). Recall, recognition, and the medial temporal lobes. Behavioral and Brain Sciences, 22, 455-456.
  36. Squire, L.R. & Knowlton, B.J. (2000) The medial temporal lobe, the hippocampus, and the memory systems of the brain. In The New Cognitive Neurosciences, 2nd Edition. (M. Gazzaniga, ed.) Cambridge, MA; MIT Press pp. 765-779.
  37. McAuliffe, S.P. & Knowlton, B.J. (2000) Dissociating the effects of featural and conceptual interference on multiple target processing in rapid serial visual presentation Perception & Psychophysics, 62, 187-195.

38. Sage, J.R. & Knowlton, B.J. (2000) Effects of US devaluation on win-stay and win-shift radial maze performance in rats. Behavioral Neuroscience, 114, 295-306.
39. McAuliffe, S.P. & Knowlton, B.J. (2000) Long term retinotopic priming in object identification. Perception & Psychophysics, 62, 953-959.
40. Eldridge, L.E., Knowlton, B.J., Furmanski, C., Bookheimer, S. & Engel, S.A. (2000) Remembering episodes: A selective role for the hippocampus during retrieval. Nature Neuroscience, 3, 1149-1152
41. McAuliffe, S.P. & Knowlton, B.J. (2001) Hemispheric differences in object identification. Brain & Cognition. 45, 119-128.
42. Squire, L.R., Clark, R.E. & Knowlton, B.J. (2001). Retrograde Amnesia. Hippocampus, 11, 50-55.
43. Hollingsworth, D.E., McAuliffe, S.P., & Knowlton, B.J. (2001). Temporal allocation of visual attention in adults with attention deficit hyperactivity disorder Journal of Cognitive Neuroscience 13, 298-305.
44. Yin, H.H. & Knowlton, B.J. (2002) US devaluation abolishes conditioned cue preference: Evidence for S-S associations Behavioral Neuroscience, 116, 174-177.
45. Knowlton, B.J. (2002). The role of the basal ganglia in learning and memory. In Neuropsychology of Memory, Third Edition (L.R. Squire & D. L. Schacter, eds.) Guilford Publications, New York, pp143-153.
46. Eldridge, L.L., Sarfatti, S., & Knowlton B.J. (2002). The effect of testing procedure on remember/know judgments. Psychonomic Bulletin and Review , 9, 139-145.
47. Sullivan, K.J., Knowlton, B.J., & Dobkin, B.H.(2002). Body weight supported treadmill training: Effect of treadmill speed and stroke severity on overground walking in chronic hemiplegic stroke Archives of Physical Medicine and Rehabilitation, 83, 683-691.
48. Packard, M.G. & Knowlton, B.J. (2002). Learning and memory functions of the basal ganglia. Annual Review of Neuroscience, 25, 563-593.
49. Knowlton, B.J. (2002). Categorization. In The Encyclopedia of the Human Brain, Volume 1 (V.S. Ramachandran, ed.), Academic Press, San Diego, pp 603-609
50. Eldridge, L.L., Masterman, D., & Knowlton, B.J.(2002). Intact implicit habit learning in Alzheimer's disease Behavioral Neuroscience 116, 722-726.
51. Viskontas, I.V. & Knowlton, B.J. (2003). Procedural learning in humans. In J. H. Byrne (ed) Learning & Memory, 2nd Edition. Macmillan Reference USA, New York, pp 547-550.

52. Sage, J.R., Anagnostaras, S.G., Mitchell, S., Bronstein, J.M., De Salles, A., Masterman, D., & Knowlton, B.J. (2003). Analysis of probabilistic classification in patients with Parkinson's disease and controls: What is learned? Learning & Memory, 10, 226-236.
53. Fales, C.L., Knowlton, B.J., Holyoak, K.J., Geschwind, D., Swerdlov, R.S., & Gaw-Gonzalo, I. (2003) Working memory and relational reasoning in Klinefelter syndrome Journal of the International Neuropsychological Society, 9, 839-846.
54. Knowlton, B.J., & Viskontas, I.V. (2003) Retention systems of the brain: Evidence from neuropsychological patients. Behavioral and Brain Sciences 26: 743-744.
55. Yin, H.H., Knowlton, B.J., & Balleine, BW (2004). Lesions of the dorsolateral striatum preserve outcome expectancy but disrupt habit formation in instrumental learning. European Journal of Neuroscience. 19, 181-189.
56. Iacoboni, M., Lieberman, M.D., Knowlton, B.J., Molnar-Szakacs, I., Moritz, M., Throop, C.J., & Fiske, A.P. (2004). Watching social interactions produces dorsomedial prefrontal and medial parietal BOLD fMRI signal increase compared to a resting baseline. Neuroimage, 21, 1167-1173.
57. Morrison, R.G., Krawczyk, D.C., Holyoak, K.J., Hummel, J.E., Chow, T.W., Miller, B.L., & Knowlton, B.J. (2004). A neurocomputational model of analogical reasoning and its breakdown in Frontotemporal Lobar Degeneration. Journal of Cognitive Neuroscience 16, 260-271.
58. Waltz, J.A., Knowlton, B.J., Holyoak, K.J., McPherson, S., Boone, K.B., Back-Madruga, C., Masterman, D., Chow, T., Cummings, J.L., & Miller, B.L. (2004). Relational reasoning and executive function in Alzheimer's disease. Neuropsychology 18, 296-305.
59. Lieberman, M.D., Chang, G.Y., Chiao, J., Bookheimer, S.Y., & Knowlton, B.J. (2004). An event-related fMRI study of artificial grammar learning in a balanced chunk strength design. Journal of Cognitive Neuroscience, 16, 427-438.
60. Moody, T.D. Bookheimer, S.Y. Vanek, Z. & Knowlton, B.J. (2004). An implicit learning task activates medial temporal lobe in patients with Parkinson's disease Behavioral Neuroscience 118, 438-442.
61. Chang, G.Y. & Knowlton, B.J. (2004). The effect of surface feature manipulations on artificial grammar learning. Journal of Experimental Psychology: Learning, Memory, & Cognition 30, 714-722.
62. Yin, H.H. & Knowlton, B.J. (2004) Contributions of striatal subregions to place and response learning. Learning & Memory 24:459-463.
63. Stacy, A.W., Ames, S.L. & Knowlton, B.J. (2004). Neurologically plausible distinctions in cognition relevant to drug use etiology and prevention. Substance Use and Misuse,

39:1571-1623.

64. Viskontas, I.V., Morrision, R.G., Holyoak, K.J., Hummel, J.E., & Knowlton, B.J. (2004). Relational integration, inhibition, and analogical reasoning in older adults. Psychology and Aging, 19:581-591.
65. Knowlton, B.J. (2004). Cognitive neuropsychology of learning and memory. In K. Lamberts & R.L. Goldstone, (eds.) Handbook of Cognition. Sage Publications, London pp 365-381.
66. Eldridge, L.L., Engel, S.A., Zeineh, M.M., Bookheimer, S.Y., & Knowlton, B.J. (2005). A dissociation of encoding and retrieval processes in the human hippocampus. Journal of Neuroscience 25, 3280-3286.
67. Poldrack RA, Sabb FW, Foerde K, Tom SM, Asarnow RF, Bookheimer SY, Knowlton BJ. (2005).The neural correlates of motor skill automaticity Journal of Neuroscience, 25:5356-5364.
68. Yin, H.H., Ostlund, S., Knowlton, B.J. & Balleine, B.W. (2005). The role of the dorsomedial striatum in instrumental conditioning. European Journal of Neuroscience, 22, 513-523
69. Viskontas, I.V., Holyoak, K.J. & Knowlton, B.J. (2005) Relational integration in older adults. Thinking & Reasoning, 11: 390-410.
70. Yin, H.H., Knowlton, B.J. & Balleine, B.W. (2005). Blockade of NMDA receptors in the dorsomedial striatum prevents action outcome learning in instrumental conditioning. European Journal of Neuroscience ,22, 505-512.
71. Yin H.H. & Knowlton, B.J. (2005). Addiction and learning in the brain. In R.W. Wiers and A.W. Stacy (eds.) Handbook of Implicit Cognition and Addiction Sage Publications, London. 167-183.
72. Yin H.H., Knowlton B.J. & Balleine B.W. (2006). Inactivation of dorsolateral striatum enhances sensitivity to changes in the action-outcome contingency in instrumental conditioning. Behavioural Brain Research, 166:189-96
73. Knowlton, B.J. & Eldridge, L.L. (2006) Mnemonic binding in the medial temporal lobe. In H.D. Zimmer, A. Mecklinger, & U. Lindenberger (eds). Binding in Human Memory: A Neurocognitive Approach. Oxford University Press, U.K. (pp 93-526)
74. Fales C.L., Vanek Z.F., & Knowlton B.J. (2006) Backward inhibition in Parkinson's disease, Neuropsychologia. 44: .1041-1049.
75. Dudukovic N.M, Knowlton B.J (2006) Remember-Know judgments and retrieval of contextual details. Acta Psychologica,. 122:160-173.

76. Yin H.H. & Knowlton, B.J. (2006) The role of the basal ganglia in habit formation. Nature Reviews Neuroscience, 7: 464-476.
77. Viskontas, I.V. Knowlton, B.J., Steinmetz, P.J., & Fried, I (2006). Differences in mnemonic processing by neurons in the human hippocampus and parahippocampal region. Journal of Cognitive Neuroscience 18: 1654-1662.
78. Foerde, K.E., Knowlton, B.J., & Poldrack, R.A. (2006). Modulation of competing memory systems by distraction. Proceedings of the National Academy of Science, 103:11778-11783.
79. Foerde, K.E., Poldrack, R.A. & Knowlton, B.J. (2007) Secondary task effects in classification learning. Memory & Cognition 35, 864-874.
80. Knowlton, B.J. & Greenberg, D.L. (2008). Implicit Learning and Memory. In B. Miller & G. Goldenberg, (eds) Handbook of Clinical Neurology, Vol. 88: Neuropsychology and Behavior. Elsevier Press, U.K. pp 226-236.
81. Knowlton, B.J. & Foerde, K.E.. (2008) Neural representations of nondeclarative memories. Current Directions in Psychological Science 17, 107-111..
82. Foerde, K., Poldrack, R.A., Knowlton, B.J., Sabb, F.W., Bookheimer, S.Y., Bilder, R.M., Guthrie, D., Granholm, E., Nuechterlein, K.H., Marder, S.R., & Asarnow, R.F. (2008) Selective Corticostriatal Dysfunction in Schizophrenia: Examination of Motor and Cognitive Skill Learning. Neuropsychology 22, 100-109.
83. Van Erp, T.G., Lesh, T.A., Knowlton, B.J., Bearden, C.E., Hardt, M., Karlsgodt, K.H., Shirinyan, D., Rao, V., Greene, M.F., Subotnik, K.L., Nuechterlein, K., & Cannon, T.D. (2008) Remember and Know judgements during recognition in chronic schizophrenia. Schizophrenia Research, 100:181-190.
84. Knowlton, B.J. & Moody, T.D. (2008). Procedural learning in humans. In J. Byrne (ed.) Learning & Memory: A Comprehensive Reference, Vol. 3, Memory Systems. Elsevier Press, U.K pp 321-340.
85. Krawczyk, D., Morrison, R.G., Viskontas, I.V., Holyoak, K.H., Chow, T.W., Mendez, M.F., Miller, B.L., & Knowlton, B.J. (2008). Distraction during relational reasoning: The role of prefrontal cortex in interference control. Neuropsychologia 46: 2020-2032.
86. Horan, W.P., Green, M.F., Knowlton, B.J., Wynn, J.K., Mintz, J., & Nuechterlein, K.H. (2008) Impaired implicit learning in schizophrenia. Neuropsychology 22:606-617.
87. Minnema, M. & Knowlton B.J. (2008). Directed forgetting of emotional words. Emotion 8:643-652.
88. Viskontas, I.V., Carr, V.A., Engel, S.A., & Knowlton, B.J. (2009). The neural correlates of

recollection: Hippocampal activation declines as episodic memory fades. Hippocampus. 19:265-272.

89. Knowlton, B.J., McAuliffe, S.P. Coelho, C.R. Hummel, J.E. (2009) Visual priming of inverted and rotated objects, Journal of Experimental Psychology: Learning, Memory, & Cognition 35:837-848.
90. Knowlton, B.J. & Holyoak, K.J. (2009). Prefrontal substrate of human relational reasoning. In M.S. Gazzaniga (ed) The Cognitive Neurosciences, 4<sup>th</sup> Edition. MIT Press, Cambridge, MA. pp 1005-1018.
91. McAuliffe, S.P. & Knowlton, B.J. (2009). The time course of object encoding. Acta Psychologica, 132:213-220.
92. Suthana, N.A., Ekstrom, A.D., Moshirvaziri, S., Knowlton, B.J., & Bookheimer, S.Y. (2009). Human hippocampal CA1 involvement during allocentric encoding of spatial information. Journal of Neuroscience 29:10512-10519.
93. Moody, T.D., Chang, G.Y., Vanek, Z.F. & Knowlton, B.J. (2010) Concurrent discrimination learning in Parkinson's disease. Behavioral Neuroscience 124:1-8.
94. Cho, S., Moody, T.D., Fernandino, L., Mumford, J.A., Poldrack, R.A., Cannon, T.D., Knowlton, B.J., & Holyoak, K.J. (2010) Common and dissociable prefrontal loci associated with component mechanisms of analogical reasoning. Cerebral Cortex 20:524-533.
95. Cohen, J.R., Asarnow, R.F., Saab, F.W., Bilder, R.M., Bookheimer, S.Y., Knowlton, B.J., & Poldrack, R.A., (2010) A unique adolescent response to reward prediction errors. Nature Neuroscience 13:669-671.
96. Carr, V.A., Viskontas, I.V., Engel, S.A., & Knowlton, B.J. (2010) Neural activity in the hippocampus and perirhinal cortex during encoding is associated with the durability of episodic memory. Journal of Cognitive Neuroscience 22:2652-2662.
97. Cohen, J.R., Asarnow, R.F., Saab, F.W., Bilder, R.M., Bookheimer, S.Y., Knowlton, B.J., & Poldrack, R.A. (2010) Decoding developmental differences and individual variability in response inhibition through predictive analyses across individuals. Frontiers in Human Neuroscience Volume 4: Article 47
98. Kantak, S.S., Sullivan, K.J., Fisher, B.E., Knowlton, B.J., & Winstein, C.J. (2010) Neural correlates of motor memory consolidation depend on practice structure: A double dissociation of primary motor and dorsolateral prefrontal cortex. Nature Neuroscience 13:923-925.
99. Lin, C-H. J, Wu, A.D., Udompholkul, P., & Knowlton, B.J. (2010) Contextual interference effects in sequence learning for younger and older adults Psychology and Aging 25:929-

100. Greenberg, D.L., Ogar, J.M., Viskontas, I.V., Gorno-Tempi, M., Miller, B., & Knowlton, B.J. (2011). Multimodal cuing of autobiographical memory in semantic dementia. Neuropsychology 25:98-104.
101. Elderkin-Thompson, V., Moody, T., Knowlton, B., Helleman, G., & Kumar, A. (2011). Explicit and implicit memory in late-life depression. American Journal of Geriatric Psychiatry, 19:249-255.
102. Lin, C-H., Knowlton, B.J., Chiang, M.C., Iacoboni, M., Udomphokul, P., & Wu., A.D. (2011). Brain-behavior correlates of optimizing learning through interleaved practice. Neuroimage, 56:1758-1772.
103. Cohen, J.R., Asarnow, R.F., Sabb, F.W., Bilder, R.M., Bookheimer, S.Y., Knowlton, B.J., & Poldrack, R.A. (2011). Decoding continuous behavioral variables from neuroimaging data: Basic and clinical applications. Frontiers in Neuroscience. Volume 5: Article 75.
104. Suthana, N., Ekstrom, A., Moshirvaziri, S., Knowlton, B., & Bookheimer, S. (2011). Dissociations within human hippocampal subregions during encoding and retrieval of spatial information. Hippocampus 21:694-701.
105. Kantak, S.S., Sullivan, K.J., Fisher, B.E., Knowlton, B.J., & Winstein, C.J. (2011). Transfer of motor learning engages specific neural substrates during consolidation that depend on practice structure. Journal of Motor Behavior, 43:499-507.
106. Morrison, R.G. & Knowlton, B.J. (2012), Neurocognitive methods in higher cognition. In K.J. Holyoak & R.G. Morrison (eds.) Oxford Handbook of Thinking and Reasoning, Oxford University Press, New York. pp 67-89.
107. Suthana, N., Haneef, Z., Stern, J., Mukamel, R., Behnke, E., Knowlton, B., & Fried, I. (2012) Memory enhancement and deep brain stimulation of entorhinal area. New England Journal of Medicine. 366:502-510.
108. Lin C-H., Chiang, M.C., Wu, A.D., Iacoboni, M., Udompholkul, P., Yazdanshenas, O., & Knowlton, B.J. (2012). Enhanced motor learning in older adults is accompanied by increased bilateral frontal and fronto-parietal connectivity. Brain Connectivity 2:56-68.
109. Knowlton, B.J., Morrison, R.G., Hummel, J.E., & Holyoak, K.J. (2012). A neurocomputational system for relational reasoning. Trends in Cognitive Science, 16:373-381.
110. Lin C-H., Chiang, M.C., Wu, A.D., Iacoboni, M., Udompholkul, P., Yazdanshenas, O., & Knowlton, B.J. (2012) Age related differences in the neural substrates of motor sequence learning after interleaved and repetitive practice. Neuroimage, 62:2007-2020.
111. Vendetti, M., Knowlton, B.J., & Holyoak, K.J. (2012) The impact of semantic distance and

- induced stress on analogical reasoning: A neurocomputational account. Cognitive, Affective, and Behavioral Neuroscience 4:804-812.
112. Wagshal, D., Knowlton B.J., Cohen, J.R., Poldrack, R.A., Bookheimer, S.Y., Bilder, R.M., Fernandez, V.G., & Asarnow, R.F. (2012) Deficits in probabilistic classification learning and liability for schizophrenia. Psychiatry Research 200:167-172.
  113. Knowlton, B.J. (2013) Memory, neural basis. In H. Pashler (ed.) Encyclopedia of the Mind. Sage Reference, Thousand Oaks, CA. pp 483-489.
  114. Lin, C-H., Chiang, M-C, Knowlton, B.J., Iacoboni, M., Udomphokul, P., & Wu, A.D. (2013) Interleaved practice enhances skill learning and the functional connectivity of fronto-parietal networks. Human Brain Mapping. 34:1542-1558.
  115. Carr, V.A., Engel, S.A., & Knowlton, B.J. (2013) Top-down modulation of hippocampal encoding as measured by high-resolution functional MRI. Neuropsychologia, 51:1829-1837.
  116. Patterson, T.K., Craske, M.G., & Knowlton, B.J. (2013) The effect of early-life stress on memory systems supporting instrumental behavior. Hippocampus 23:1025-1034.
  117. Wagshal, D., Knowlton, B., Suthana, N., Cohen, J., Poldrack, R., Bookheimer, S., Bilder, B., & Asarnow, R. (2014) Evidence for corticostriatal dysfunction during cognitive skill learning in adolescent siblings of patients with childhood onset schizophrenia. Schizophrenia Bulletin 215:294-299.
  118. Vendetti, M.S., Wu, A., Rowshanshad, E., Knowlton, B.J. & Holyoak, K.J. (2014) When reasoning modifies memory: schematic assimilation triggered by analogical mapping. Journal of Experimental Psychology: Learning, Memory, & Cognition. 40:1172-1180
  119. Cohen, M.S., Rissman, J., Suthana, N.A., Castel, A.D., & Knowlton, B.J. (2014). Value-based modulation of memory encoding involves strategic engagement of fronto-temporal semantic processing regions. Cognitive, Affective, and Behavioral Neuroscience. 14:578-592
  120. Greenberg, D.L., & Knowlton, B.J. (2014) The role of visual imagery in autobiographical memory. Memory & Cognition. 42:922-34
  121. Wagshal, D., Knowlton, B.J., Cohen, J.R., Poldrack, R.A., Bookheimer, S.Y., Bilder, R.M., & Asarnow, R.F. (2014). Impaired automatization of a cognitive skill in first-degree relatives of patients with schizophrenia. Psychiatry Research. 215:294-299.
  122. Eich, T.S., Murayama, K., Castel, A.D., & Knowlton, B.J. (2014). The dynamic effects of age-related stereotype threat on explicit and implicit memory performance in older adults. Social Cognition, 32:559-570.



123. Knowlton, B.J. (2014) Habit formation. In D. Jaeger & R. Jung (eds.) Encyclopedia of Computational Neuroscience doi 10.1007/978-1-4614-7320-6\_517-1, pp. 1-17, Springer Reference, New York.
124. Wagshal D., Knowlton, B.J., Cohen, J.R., Bookheimer, S.Y., Bilder, R.M., Fernandez, V.G, & Asarnow RF. (2015). Cognitive correlates of gray matter abnormalities in adolescent siblings of patients with childhood-onset schizophrenia. Schizophrenia Research. 161:345-350.
125. Suthana, N.A., Donix, M., Wozny, D.R., Bazih, A., Jones, M., Heidemann, R.M., Trampel, R., Ekstrom, A.D., Scharf, M., Knowlton, B, Turner, R., & Bookheimer, S.Y. (2015). High-resolution 7T fMRI of human hippocampal subfields during associative learning. Journal of Cognitive Neuroscience, 27:1194-1206
126. Carr, V.A., Castel, A.D., & Knowlton, B.J. (2015). Age-related differences in memory after attending to distinctiveness or similarity during learning. Aging, Neuropsychology, & Cognition. 22:155-69.
127. Haut, K.M., van Erp. T.G.M., Knowlton, B., Bearden, C., Subotnik, K., Ventura, J., Neuchterlein, K., & Cannon, T.D. (2015) Contributions of feature binding during encoding and functional connectivity of the medial temporal lobe structures to episodic memory deficits across the prodromal and first-episode phases of schizophrenia. Clinical Psychological Science. 3:159-174.
128. Suthana, N.A., Parikshank, N.N, Ekstrom, A.D., Ison, M.J., Knowlton, B.J., Bookheimer S.Y., & Fried, I. (2015). Specific responses of human hippocampal neurons are associated with better memory. Proceedings of the National Academy of Sciences 112:10503-10508.
129. Cohen, M.S., Rissman, J., Suthana, N.A., Castel, A.D., & Knowlton, B.J. (2016). Effects of aging on value-directed modulation of semantic network activity during verbal learning. Neuroimage 125:1046-1052.
130. Lin, C.H., Knowlton, B.J., Wu, A.D., Iacoboni, M., Yang, H.C., Ye, Y.L., Liu, K.H., & Chiang, M.C. (2016) Benefit of interleaved practice of motor skills is associated with changes in functional brain network topology that differ between younger and older adults. Neurobiology of Aging 42:189-198.
131. Patterson, T. K., Lenartowicz, A., Berkman, E. T., Ji, D., Poldrack, R. A., & Knowlton, B. J. (2016). Putting the brakes on the brakes: Negative emotion disrupts cognitive control network functioning and alters subsequent stopping activity. Experimental Brain Research. 234:3107-3118.
132. Viskontas, I.V., Knowlton, B.J., & Fried, I. (2016) Responses of neurons in the medial temporal lobe during encoding and recognition of face-scene pairs. Neuropsychologia, 90:200-209.

133. McCleery, A., Lee, J., Fiske, A.P., Ghermezi, L., Hayata, J.N., Hellemann, G.S., Horan, W.P., Kee, K.S., Kern, R.S., Knowlton, Subotnik K.L., Ventura, J., Sugar, C.A., Nuechterlein, K.H., & Green, M.F. (2016). Longitudinal stability of social cognition in schizophrenia: A 5-year follow-up of social perception and emotion processing. Schizophrenia Research. 176:467-472.
134. Shimizu, R.E., Wu, A.D., & Knowlton, B.J. (2016). Cerebellar activation during motor sequence learning is associated with subsequent transfer to new sequences. Behavioral Neuroscience. 130:572-584.
135. Knowlton, B.J. (2016) Introduction to the special section on new ideas about cerebellar function. Behavioral Neuroscience. 130:545-546.
136. Waltzman, D., Knowlton, B.J., Cohen, J.R., Bookheimer, S.Y., Bilder, R.M., & Asarnow, R.F. (2016) DTI microstructural abnormalities in adolescent siblings of patients with childhood-onset schizophrenia. Psychiatry Research. 258:23-29.
137. Shimizu, R.E., Wu, A.D., Samra, J.K., & Knowlton B.J. (2017). The impact of transcranial direct current stimulation (tDCS) on learning fine-motor sequences. Philosophical Transactions of the Royal Society B: Biological Sciences. 372:20160050
138. Hennessee, J.P., Castel, A.D., & Knowlton, B.J. (2017) Recognizing what matters: Value improves recognition by selectively enhancing recollection. Journal of Memory and Language. 94:195-205.
139. Knowlton, B.J., Siegel, A.L.M., & Moody, T.D. (2017) Procedural Learning in Humans. In J.H. Byrne, (ed.) Learning and Memory: A Comprehensive Reference, 2<sup>nd</sup> Edition, Volume 4: Memory Systems. Elsevier, Amsterdam. pp. 295-312.
140. Cohen, M.S., Rissman, J., Hovhannisyan, M., Castel, A.D., & Knowlton, B.J. (2017). Free recall test experience potentiates strategy-driven effects of value on memory. Journal of Experimental Psychology: Learning, Memory, & Cognition. 43:1581-1601.
141. Hennessee, J.P., Knowlton, B.J., & Castel, A.D., (2018) The effects of value on context-item associative memory in younger and older adults. Psychology and Aging. 33:46-56.
142. Knowlton, B.J. & Patterson, T.K. (2018). Habit formation in the striatum. Current Topics in Behavioral Neurosciences. 37:275-295.
143. Lee, J., Nuechterlein, K., Knowlton, B., Bearden, C., Cannon, T., Fiske, A., Ghermezi, L., Hayata, J., Hellemann, G., Horan, W., Kee, K., Kern, R., Subotnik, K., Sugar, C., Ventura, J., Yee-Bradbury, C., & Green, M. (2018). Episodic memory for dynamic social interaction across phase of illness in schizophrenia. Schizophrenia Bulletin 44:620-630.
144. Patterson, T.K. & Knowlton, B.J. (2018) Subregional Specificity in Human Striatal Habit Learning: A Meta-Analytic Review of the fMRI Literature. Current Opinion in Behavioral Sciences. 20:75-82.

145. Reggente, N., Cohen, M.S., Zheng, Z.S., Castel, A.D., Knowlton B.J., & Rissman, J. (2018). Memory recall for high reward value items correlates with individual differences in white matter pathways associated with reward processing and fronto-temporal communication. Frontiers in Human Neuroscience 12:241.
146. Perugini, A., Ditterich, J., Shaikh, A.G., Knowlton, B.J., & Basso, M.A. (2018). Paradoxical decision-making: A framework for understanding cognitive deficits in Parkinson's disease Trends in Neurosciences, 41:512-529.
147. Lin, C.-H., Yang, H.-C., Knowlton, B.J., Wu, A.D., Iacoboni, M., Ye, Y.-L., Huang, S.-L., & Chiang, M.-C. (2018). Contextual interference enhances motor learning through increased resting brain connectivity during memory consolidation. Neuroimage, 181:1-15.
148. Clayson, P. E., Kern, R. S., Nuechterlein, K. H., Knowlton, B. J., Bearden, C. E., Cannon, T. D., Fiske, A. P., Ghermezi, L., Hayata, J. N., Helleman, G. S., Horan, W. P., Kee, K., Lee, J., Subotnik, K. L., Sugar, C. A., Ventura, J., Yee, C. M., & Green, M. F. (2019). Social vs. non-social measures of learning potential for predicting community functioning across phase of illness in schizophrenia. Schizophrenia Research 204:104-110.
149. Hennessee, J.P., Reggente, N., Cohen, M.S., Rissman, J., Castel, A.D. & Knowlton, B.J. (2019). White matter integrity in brain structures supporting semantic processing is associated with value-directed remembering in older adults. Neuropsychologia, 129:246-254.
150. Hennessee, J.P., Patterson, T.K. Castel, A.D., & Knowlton B.J. (2019). Forget me not: Encoding processes in value-directed remembering. Journal of Memory and Language 106: 29-39.
151. Patterson, T.K., Craske, M.G., & Knowlton B.J. (2019) Enhanced avoidance habits in relation to early-life stress. Frontiers in Psychology, 10:1876.
152. Schorn, J.M., Lu, H.-J., & Knowlton, B.J. (2020). Contextual Interference Effect in Motor Skill Learning: An Empirical and Computational Investigation. Proceedings of the 42<sup>nd</sup> Annual Meeting of the Cognitive Science Society, 2043-2049.
153. Gordon, A.L., Patterson, T.K., & Knowlton, B.J. (2020) Early-life stress is associated with a preponderance of habitual responding in a novel instrumental avoidance learning paradigm. Neurobiology of Learning and Memory 175:107316.
154. Fourquet, N.Y., Patterson, T.K., Li, C., Castel, A.D., & Knowlton, B.J. (2020). Effects of Age-Related Stereotype Threat on Metacognition. Frontiers in Psychology 11:3453.
155. Mankin, E.A., Aghajan Z.M., Schuette, P., Tran, M.E., Tchemodanov, N., Titiz, A., Kalendar, G., Eliashiv, D., Stern, J., Weiss, S.A., Kirsch, D., Knowlton, B., Fried, I., & Suthana, N. (2020) Stimulation of the right entorhinal white matter enhances visual memory encoding in humans. Brain Stimulation 14:131-140.
156. Knowlton, B.J. & Schorn, J.M. Procedural and motor learning. In M.J. Kahana & A.D.

Wagner, (eds.) Oxford Handbook of Human Memory, 2<sup>nd</sup> Edition. Oxford University Press, New York, NY (In Press).