

David M. Smith
Department of Psychology
Cornell University
Room 236 Uris Hall
Ithaca, NY 14850
(607)227-0045
dms248@cornell.edu

Education

Indiana University-Purdue University, Indianapolis, IN	8/90 - 5/95 B.S. in Psychology
University of Illinois, Champaign-Urbana, IL Major: Cognitive and Behavioral Neuroscience Minors: Neuroanatomy, Neurophysiology Advisor: Michael Gabriel	8/95 – 10/01 Ph.D. in Neuroscience
University of Washington, Seattle, WA Sponsor: Sheri J. Y. Mizumori	10/01 – 7/06, Postdoctoral Fellow studying neural mechanisms of context processing.

Positions

Professor Cornell University Department of Psychology Ithaca, NY	7/20 – present
Associate Professor Cornell University Department of Psychology Ithaca, NY	7/14 – 6/20
Assistant Professor Cornell University Department of Psychology Ithaca, NY	7/06 – 6/14
Research Associate University of Washington, Department of Psychology Seattle, WA	10/01 – 7/06

Graduate Research Assistant, University of Illinois, Champaign-Urbana, IL	12/96 - 10/01
Instructor, Introduction to Psychology University of Illinois, Champaign-Urbana, IL	8/97 - 5/99, 8/00 - 12/00
Graduate Teaching Assistant, Mind and Brain Laboratory University of Illinois, Champaign-Urbana, IL	8/96 - 12/96
Graduate Teaching Assistant, Introduction to Biology Laboratory University of Illinois, Champaign-Urbana, IL	8/95 - 5/96
Owner and General Manager, D. M. Smith and Co., Inc. Remodeling and Building Contractor Indianapolis, IN	1/85 - 8/95

Awards

Stephen H. Weiss Junior Fellowship Award for teaching and mentoring, 2018.

Grants and Funding

NIDCD R01 Role of Anterior Olfactory Nucleus in Multi-Sensory Integration in Olfactory System. C. Linster, PI, T. Cleland, co-PI and D. Smith co-PI, (currently under review).

NIMH R01 Hippocampus, Retrosplenial Cortex and Contextual Learning and Memory. D. Smith, P. I. (NIMH MH083809, renewal, 4/3/18-12/31/22).

NIMH R01 Hippocampus, Retrosplenial Cortex and Contextual Learning and Memory. D. Smith, P. I. (NIMH MH083809, 12/2/09-12/1/18).

NIDCD Postdoctoral National Research Service Award (D. Smith and C. Linster, co-PIs; S. DeVore, Trainee): Neuromodulatory Regulation of Early Olfactory Processing. (NIDCD F32 DC011974, 9/11-9/14).

NIDCD R21 Cholinergic and Noradrenergic Inputs to Early Olfactory Processing (C. Linster, P.I., D. Smith, Co-P.I.). (NIDCD, R21 DC010420, 8/1/09-7/31/11).

NIDCD Senior National Research Service Award (C. Linster, P. I.): Cholinergic Modulation of Olfactory Processing. (NIDCD F33 DC009150, 9/07-9/08). Supported C. Linster for a sabbatical in my laboratory to learn behavioral neurophysiology.

NIMH Postdoctoral National Research Service Award (D. Smith, P. I.): Context Processing and Reorganization of Spatial Coding. (NIMH F32-MH067399, 9/02-9/05)

NIMH Predoctoral National Research Service Award (D. Smith, P. I.): Neural Mediation of Context-Appropriate Behavior. (NIMH F31-MH12077, 8/98-7/00)

Teaching

Psychology 3240 Behavioral Neuroscience Laboratory

Psychology 2230 Introduction to Biological Psychology

Psychology 4230/6230 Navigation, Memory and Context: What Does the Hippocampus Do?

Psychology 4200/6200 Advanced Topics in the Neurobiology of Learning and Memory

Psychology 6271 Behavioral, Computational and Systems Neuroscience Journal Club

Psychology 6210 Behavioral and Brain Sciences Seminar

Neurobiology and Behavior 7210 Introductory Graduate Survey in Neurobiology and Behavior.

Publications

Levinson, M., Kolenda, J. P., Alexandrou, G. J., Escanilla, O., Smith, D. M., Cleland, T. A. and Linster, C. (in press). Context-dependent odor learning requires the anterior olfactory nucleus. *Behavioral Neuroscience*.

Bulkin, D. A., Sinclair, D. G., Law, L. M. and Smith, D. M. (in press). Hippocampal State Transitions at Event Boundaries. *Hippocampus*, doi: 10.1002/hipo.23180.

Peters, G. J. and Smith, D. M. (2020). The Medial Prefrontal Cortex is Needed for Resolving Interference Even When There are No Changes in Task Rules and Strategies. *Behavioral Neuroscience*, 134(1):15-20.

Miller, A. M. P., Mau, W., and Smith, D. M. (2019). Retrosplenial Cortical Representations of Space and Future Goal Locations Develop with Learning. *Current Biology*, 29:2083-2090.

Smith, D. M., Miller, A. M. P., and Vedder, L. C. (2018). The Retrosplenial Cortical Role in Encoding Behaviorally Significant Cues. *Behavioral Neuroscience*, 132(5):356-365.

Vedder, L., Miller, A. M. P., Harrison, M., and Smith, D. M. (2017). Retrosplenial Cortical Neurons Encode Navigational Cues, Trajectories and Reward Locations During Goal Directed Navigation. *Cerebral Cortex*, 27(7):3713-3723.

Miller, A. M. P., Frick, B. J., Smith, D. M., Radulovic, J., and Corcoran, K. A. (2017). Network Oscillatory Activity Driven by Context Memory Processing is Differently Regulated by Glutamatergic and Cholinergic Neurotransmission. *Neurobiology of Learning and Memory*, 145:59-66.

Almeida, L. A., Dean, O., Idiart, M., Devore, S., Smith, D. M. and Linster, C. L. (2016). Internal Cholinergic Regulation of Learning and Recall in the Olfactory System. *Frontiers in Cellular Neuroscience* 10:256.

Law, L. M., Bulkin, D. A., and Smith, D. M. (2016). Slow Stabilization of Concurrently Acquired Hippocampal Context Representations. *Hippocampus* 26(12):1560-1569.

Bulkin, D. A., Law, L. M. and Smith, D. M. (2016). Placing Memories in Context: Hippocampal Representations Promote Retrieval of Appropriate Memories. *Hippocampus* 26(7):958-971.

Devore, S. D., Pender-Morris, N., Dean, O., Smith, D. M., and Linster, C. (2016). Basal forebrain dynamics during nonassociative and associative olfactory learning. *Journal of Neurophysiology*, 115(1):423-433, DOI 10.1152.

Miller, A. M. P., Vedder, L. C., Law, L. M. and Smith, D. M. (2014). Cues, context, and long-term memory: the role of the retrosplenial cortex in spatial cognition. *Frontiers in Human Neuroscience*, 8(Article 586):1-15, DOI 10.3389.

Wu, Q., Peters, G. J., Rittner, P., Cleland, T. A. and Smith, D. M. (2014). The hippocampal and medial prefrontal cortical role in selective memory retrieval: Evidence from a rodent model of the retrieval-induced forgetting effect. *Hippocampus*, 24(9):1070-1080.

Smith, D. M. and Bulkin, D. A. (2014). Form and function of hippocampal context representations. *Neuroscience and Biobehavioral Reviews*, 40:52-61.

Peters, G. J., David, C. N., Markus, M. and Smith, D. M. (2013). The medial prefrontal cortex is critical for memory retrieval and resolving interference. *Learning and Memory*, 20:201-209.

Menda, G., Uhr, J., Wytenbach, R. A., Vermeulen, F. M. Smith, D. M., Harrington, L. C. and Hoy, R. R. (2013). Associative learning in the dengue vector mosquito, *Aedes aegypti*: Avoidance of a previously attractive odor or color that is paired with an aversive stimulus. *Journal of Experimental Biology*, 216(2), 218-223.

Law, L. M. and Smith, D. M. (2012). The Anterior Thalamus is Critical for Overcoming Interference in a Context-Dependent Odor Discrimination Task. *Behavioral Neuroscience*, 126(5), 710-719.

Sill, O. C. and Smith, D. M. (2012). A Comparison of the Effects of Temporary Hippocampal Lesions on Single and Dual Context Versions of the Olfactory Sequence Memory Task. *Behavioral Neuroscience*, 126(4), 588-592.

Luu, P., Sill, O. S., Becker, S. B., Wojtowicz, J. M. and Smith, D. M. (2012). The Role of Adult Hippocampal Neurogenesis in Reducing Interference. *Behavioral Neuroscience*, 126(3), 381-391.

- Butterly, D. A., Petroccione, M. A., Masterton, J. E. and Smith, D. M. (2012). Hippocampal context processing is critical for interference free recall of odor memory in rats. *Hippocampus*, 22:906-913.
- Smith, D. M., Barredo, J. B. and Mizumori, S. J. Y. (2011). Complimentary Roles of the Hippocampus and Retrosplenial Cortex in Behavioral Context Discrimination. *Hippocampus*, 22:1121-1133.
- Gill, P. R., Mizumori, S. J. Y. and Smith, D. M. (2011). Hippocampal Episode Fields Develop with Learning. *Hippocampus*, 21:1240-1249.
- Smith, D. M. (2008). The Hippocampus, Context Processing and Episodic Memory. In Dere, E., Easton, A., Nadel, L. and Huston, J. (eds) *Handbook of Episodic Memory*. Amsterdam: Elsevier. pp 465-481.
- Mizumori, S. J. Y., Smith, D. M. and Puryear, C. B. (2007). Hippocampal and Neocortical Interactions During Context Discrimination: Electrophysiological Evidence From the Rat. *Hippocampus*. 17:851-862.
- Mizumori, S. J. Y., Smith, D. M. and Puryear, C. B. (2007). Mnemonic Contributions of Hippocampal Place Cells. In Martinez, J. L. and Kesner, R. P. (eds) *Neurobiology of Learning and Memory*. Burlington, MA: Academic, pp 155-189.
- Smith, D. M. and Mizumori, S. J. Y. (2006). Hippocampal Place Cells, Context and Episodic Memory. *Hippocampus*. 16:716-729.
- Smith, D. M. and Mizumori, S. J. Y. (2006). Learning-Related Development of Context-Specific Neuronal Responses to Places and Events: The Hippocampal Role in Context Processing. *Journal of Neuroscience*. 26(12):3154-3163.
- Mizumori, S. J. Y., and Smith, D. M. (2006) Directing Neural Representations of Space. In Brown, M. and Cook, R. (eds) *Animal Spatial Cognition: Behavioral, Comparative & Computational Analyses*. Electronic book at <http://www.pigeon.psy.tufts.edu/asc/>.
- Smith D. M., Wakeman D., Patel J., Gabriel M. (2004). Fornix Lesions Impair Context-Related Cingulothalamic Neuronal Patterns and Concurrent Discrimination Learning. *Behavioral Neuroscience*. 118:1225-1239.
- Robinson, S., Smith, D. M., Mizumori, S. J. Y., and Palmiter, R.D. (2004). Firing Properties of Dopamine Neurons in Freely-Moving Dopamine-Deficient Mice: Effects of Dopamine Receptor Activation and Anesthesia. *Proceedings of the National Academy of Sciences, United States of America*. 101(36):13329-13334.
- Smith, D. M., Freeman, J. H., Jr., Nicholson, D., and Gabriel, M. (2002). Limbic Thalamic Lesions, Appetitively Motivated Discrimination Learning And Learning-Related Neuronal Activity In Rabbits. *Journal of Neuroscience*. 22(18):8212-21.

Smith, D. M., Monteverde, J., Schwartz, E., Freeman, J. H., Jr., and Gabriel, M. (2001) Lesions in the Central Nucleus of the Amygdala: Effects on Discriminative Avoidance Learning, Discriminative Approach Learning and Cingulothalamic Training-induced Neuronal Activity. *Neurobiology of Learning and Memory*. 76:403-425.

Duvel, A., Smith, D. M., Talk, A., and Gabriel, M. (2001) Medial Geniculate, Amygdalar and Cingulate Cortical Training-induced Neuronal Activity During Discriminative Avoidance Learning in Rabbits with Auditory Cortical Lesions. *Journal of Neuroscience*. 21(9):3271-81.

Gabriel, M. and Smith, D. M. (1999) The Limbic Memory Circuit: What is it for?, comment on BBS target article by Aggleton and Brown, *Behavioral and Brain Sciences*. 22(3):451.

Invited Lectures and Conference Talks

Smith, D. M. (May, 2019). The Hippocampal Role in Context and Interference: Evidence from Rodent Neurophysiology. Context and Episodic Memory Symposium, University of Pennsylvania.

Smith, D. M. (Apr, 2018). Retrosplenial Cortical Neurons Encode Navigational Cues, Goal Locations and Task Events. Irvine Conference on Learning and Memory, UC Irvine.

Smith, D. M. (Apr, 2018). Ensemble Coding of Long-Term Spatial and Contextual Memory in the Retrosplenial Cortex. Irvine Conference on Learning and Memory, UC Irvine.

Smith, D. M. (Feb, 2017). Retrosplenial Cortical Neurons Encode Long-Term Spatial Memory. Winter Conference on Neural Plasticity, St. George, Grenada.

Smith, D. M. (Jan, 2017). Ensemble Coding of Long-Term Spatial Memory in the Retrosplenial Cortex. Winter Conference on Neurobiology of Learning and Memory, Park City, Utah.

Bulkin, D. A. and Smith, D. M. (July, 2016). Placing Memories in Context: Hippocampal Representations Promote Interference-Free Retrieval of Context-Appropriate Memories. International Conference on Memory, Budapest, Hungary.

Smith, D. M. (Mar, 2016). Hippocampal and Retrosplenial Cortical Components of the Limbic Memory System. Department of Psychology Colloquium, University of Texas, Austin, TX.

Smith, D. M. (Mar, 2016). Retrosplenial Cortical Neurons Encode Important Navigational Cues. Presented at the Winter Conference on the Neurobiology of Learning and Memory, Park City, Utah.

Smith, D. M. (Oct, 2014). Form and Function of Hippocampal Context Representations. Department of Psychology Colloquium, University College of London, London, UK.

Smith, D. M. (Oct, 2014). Form and Function of Hippocampal Context Representations. Behavioral neuroscience group, University of Cambridge, Cambridge, UK.

Smith, D. M. (Sep, 2014). The Prefrontal Cortical Role in Modulating Memory Retrieval: Evidence From a Rodent Model. MRC Cognition and Brain Sciences Unit, University of Cambridge, Cambridge, UK.

Smith, D. M. (July, 2014). Form and Function of Hippocampal Context Representations. Behavioral neuroscience group, University of Washington, Seattle, WA.

Smith, D. M. (March, 2014). Form and Function of Hippocampal Context Representations. Psychology Department Colloquium, Emory University, Atlanta, GA.

Smith, D. M. (January, 2013). The Prefrontal Cortical Role in Modulating Memory Retrieval: Evidence From a Rodent Model. Presented at the Winter Conference on the Neurobiology of Learning and Memory, Park City, Utah.

Smith, D. M. (May, 2012). Hippocampal Context Representations: Form and Function. Context and Episodic Memory Symposium, Bloomington, IN

Smith, D. M. (April, 2012). Brain Mechanisms of Interference Resolution. Behavioral Neuroscience Colloquium, Boston University, Boston, MA.

Smith, D. M. (August, 2011). The Neural Circuitry Supporting Interference Free Memory Retrieval: Evidence From Rodent Models. Presented Aug 2 at the 2011 International Conference on Memory, York, England.

Smith, D. M. (January, 2011). Complimentary Roles of the Hippocampus and Retrosplenial Cortex in Discriminating Behavioral Contexts. Presented at the Winter Conference on the Neurobiology of Learning and Memory, January 7, Park City, Utah.

Smith, D. M. (November, 2010). The Limbic Memory Circuit and Contextual Learning. Behavioral Neuroscience Colloquium, Dartmouth University, Hanover, NH.

Smith, D. M. (March, 2009). Spatial Navigation, Episodic Memory and Context Processing: What Does the Hippocampus Do? Psychology Department Colloquium, SUNY, Binghamton, Binghamton, NY.

Smith, D. M. (April, 2008). Spatial Navigation, Episodic Memory and Context Processing: What Does the Hippocampus Do? Psychology Department Colloquium, Syracuse University, Syracuse, NY.

Smith, D. M. (March, 2008). Spatial Navigation, Episodic Memory and Context Processing: What Does the Hippocampus Do? Psychology Department Colloquium, Indiana University - Purdue University at Indianapolis, Indianapolis, IN.

Smith, D. M. (February, 2008). Spatial Navigation, Episodic Memory and Context Processing: What Does the Hippocampus Do? Psychology Department Colloquium, McMaster University, Hamilton, ON.

Smith, D. M. and Mizumori, S. J. Y. (Aug, 2006). Spatial Context Processing by Hippocampal Place Cells. International Conference on Memory, Sydney, AU.

Abstracts and Conference Presentations

Wu, W. Y., Yiu, E., Ophir, A. G., Smith, D. M. (2019). Spatial firing patterns of hippocampal CA1 neurons are not sensitive to changes in the social context. Society for Neuroscience Abstracts, program number 333.14.

Levinson, M., Kolenda, J., Davis, M., Smith, D. M., Cleland, T., and Linster, C. (2017). Contextual Changes of Olfactory Bulb Odor Representations Via Inputs from the Anterior Olfactory Nucleus. Association for Chemoreception Sciences, April, 2018.

Miller, A. M. P., Mau, W., Parauda, S., Yu, K., and Smith, D. M. (2017). Retrosplenial Cortical Neurons Encode Spatial and Temporal Context. Society for Neuroscience Abstracts, program number 84.26.

Levinson, M., Smith, D. M., Cleland, T., and Linster, C. (2017). Context Dependent Olfactory Generalization Depends on Anterior Olfactory Nucleus. Society for Neuroscience Abstracts, program number 361.05.

Hernandez, N., Rait, L., Dobbin, Cleland, T., Linster, C., and Smith, D. M., (2017). Communication Between the Hippocampus and Olfactory System is Needed for Contextually Cued Retrieval of Odor Memories. Society for Neuroscience Abstracts, program number 709.17.

Miller, A. M. P., Mau, W., Parauda, S., Yu, K., and Smith, D. M. (2015). Retrosplenial cortical neural populations simulate future trajectories. Society for Neuroscience Abstracts, program number 727.04.

Miller, A. M. P., Mau, W., Parauda, S., Yu, K., and Smith, D. M. (2015). Retrosplenial cortical neurons differentiate left and right trials on the stem of a t-maze during continuous but not delayed spatial alternation. Society for Neuroscience Abstracts, program number 445.01.

Peters, G. J. and Smith, D. M. (2015). The medial prefrontal cortex is needed for resolving interference in a continuous matching to sample task. Presented at the Winter Conference on the Neurobiology of Learning and Memory, Park City, Utah.

Bulkin, D. A., Law, L. M. and Smith, D. M. (2014). Hippocampal ensemble representations of the learning context are critical for resolving interference. Society for Neuroscience Abstracts, program number 465.09.

Vedder, L. C. and Smith, D. M. (2014). Neurons in the retrosplenial cortex encode navigational cues and reward locations. Society for Neuroscience Abstracts, program number 465.10.

Miller, A. M. Mau, W., Parauda, S., YU, K. and Smith, D. M. (2014). Representations of cues and space in the retrosplenial cortex during continuous spatial alternation. Society for Neuroscience Abstracts, program number 465.11.

Peters, G. J. and Smith, D. M. (2014). The role of the medial prefrontal cortex in resolving mnemonic interference: Evidence from an olfactory matching to sample task. Society for Neuroscience Abstracts, program number 843.08.

Bulkin, D. A. and Smith, D. M. (January, 2013). Distinct Hippocampal Context Representations Support Interference Reduction. Presented at the Winter Conference on the Neurobiology of Learning and Memory, Park City, Utah.

Law, L. M. and Smith, D. M. (January, 2013). The Anterior Thalamus is Critical for Overcoming Interference in a Context-Dependent Odor Discrimination Task. Presented at the Winter Conference on the Neurobiology of Learning and Memory, Park City, Utah.

Miller, A.M. and Smith, D.M. (2012). The Retrosplenial Cortex is Critical for Delayed Spatial Alternation on a Continuous T-Maze. Society for Neuroscience Abstracts, Program No. 706.06.

DeVore, S., Smith, D.M., and Linster, C.L. (2012). Modulation of basal forebrain neural activity in the rat during spontaneous and reward-motivated olfactory behavior. International Symposium on Olfaction and Taste. June, 2012.

DeVore, S., Morris, N. P., Smith, D. M., and Linster, C. (2011). Neural Activity in the Horizontal Limb of the Diagonal Band of Broca in Awake, Behaving Rats. Society for Neuroscience Abstracts, Program No. 374.09.

Peters, G. J. and Smith, D. M. (2011). The Medial Prefrontal Cortex is Critically Involved in Modulating Memory Retrieval: A Paradoxical Improvement in Performance Following Prefrontal Inactivation. Society for Neuroscience Abstracts, Program No. 407.04.

Smith, D. M., Epstein, G. F. and Peters, G. J. (2011). The Role of the Hippocampus in Selective Memory Retrieval: Evidence From a Rodent Model of Retrieval-Induced Forgetting. Society for Neuroscience Abstracts, Program No. 407.05.

Devore, S., Morris, N.P., Bibawi, P., Smith, D.M., and Linster, C.L. (2011). Neural activity in the horizontal limb of the diagonal band of Broca during olfactory behavior. Society for Neuroscience Abstracts, Program No. 374.09.

Devore, S., Manella, L., Smith, D. M., and Linster, C. (2011). Neural activity in the horizontal limb of the diagonal band of Broca in awake, behaving rats. Annual Meeting of the Association for Chemical Senses, St. Pete Beach, FL, P216.

Law, L. M., Detota, E., Stimac, J. and Smith, D. M. (2010). The role of the anterior thalamus in a context based olfactory learning task. Society for Neuroscience Abstracts, Program No. 99.10.

Sill, O. C. and Smith, D. M. (2010). Hippocampal inactivation disrupts a context based episodic olfactory sequence learning task. Society for Neuroscience Abstracts, Program No. 99.16.

Wu, Q. J., Peters, G. J. and Smith, D. M. (2010). Memory retrieval, suppression and the medial prefrontal cortex. Society for Neuroscience Abstracts, Program No. 99.17.

Smith, D. M. Gill, P. R. and Mizumori, S. J. Y. (2009). Hippocampal neurons exhibit 'episode fields' during the intertrial delay of a blocked alternation task on a plus maze. Society for Neuroscience Abstracts, Program No. 192.20.

Peters, G. J., Conde, N. A., David, S. N. and Smith, D. M. (2009). Lesions of the medial prefrontal cortex impair learning and memory in an olfactory list learning task in rats. Society for Neuroscience Abstracts, Program No. 477.6.

Luu, P., Hutchings, I., Smith, D. M. and Wojtowicz, J. M. (2009). Effects of adult neurogenesis on episodic memory interference. Society for Neuroscience Abstracts, Program No. 581.2.

Smith DM (2009). Hippocampal context processing is critical for interference free recall of odor memory in rats. Paper presented at the Winter Conference on the Neurobiology of Learning and Memory, January 3, Park City, Utah.

Smith DM, Butterly DA, Petroccione MA, Masterton JE (2007). Hippocampal context processing is critical for interference free recall of odor memory in rats. Society for Neuroscience Abstracts. Program Number 194.3.

Smith DM, and Petroccione MA (2007). Hippocampal and posterior cingulate cortical neuronal responses to odor stimuli during context based olfactory discrimination learning. Society for Neuroscience Abstracts. Program Number 194.4.

Smith, D. M. and Mizumori, S. J. Y. (2005). Hippocampal, Retrosplenial Cortical and Anterior Thalamic Neuronal Activity and Context-Specific Memory. Society for Neuroscience Abstracts, Program No. 695.2.

Smith, D. M., Turner, T., and Mizumori, S. J. Y. (2004). Putative Hippocampal Interneurons Develop Context-Specific Responses to Task Relevant Events. Society for Neuroscience Abstracts, Program No. 1007.5.

Smith, D. M., Munoz, J., Turner, T., and Mizumori, S. J. Y. (2003). Spatial, Directional, Reward-, and Context-Related Responses of Retrosplenial Cortical and Anterior Thalamic Neurons, Society for Neuroscience Abstracts, Program No. 719.14.

- Smith, D. M., Kolarick, D. and Mizumori, S. J. Y. (2002). Hippocampal Neurons Develop Context-Specific Firing Patterns During Spatial Learning. Society for Neuroscience Abstracts, Program No. 677.11.
- Barnes, T., Gordon, B. A., Smith, D. M., Talk, A. and Gabriel, M. (2002). Feature-Negative Instrumental Discrimination in Rabbits. Society for Neuroscience Abstracts, Program No. 676.6.
- Gabriel, M., Smith, D. M., and Wakeman, D. (2001). Fornix Lesions and Concurrent Discriminative Approach and Avoidance Learning. Society for Neuroscience Abstracts, Program No. 537.17.
- Smith, D. M., Wakeman, D., and Gabriel, M. (2001). Fornix Lesions and Cingulothalamic Neuronal Activity During Concurrent Discriminative Approach and Avoidance Learning. Society for Neuroscience Abstracts, Program No. 537.15.
- Burhans, L., Barnes, T., Haider, B., Smith, D. M., and Gabriel, M. (2001). Cingulate Cortical Multiple and Single Unit Correlates of Discriminative Approach Learning. Society for Neuroscience Abstracts, Program No. 537.14.
- Smith, D. M., Patel, J., and Gabriel, M. (2000). Hippocampal-Cingulothalamic Interactions Supporting Concurrent Discriminative Approach and Avoidance Learning in Rabbits. Society for Neuroscience Abstracts, Program No. 74.5.
- Smith, D. M. and Gabriel, M. (1999). Amygdala Lesions and Cingulothalamic Learning-Related Neuronal Activity During Discriminative Approach and Avoidance Learning. Society for Neuroscience Abstracts, Program No. 352.7.
- Pastorek, N. J., Smith, D. M., Taylor, C., and Gabriel, M. (1999). Earliest Cingulate Cortical Learning-Related Neuronal Activity. Society for Neuroscience Abstracts, Program No. 352.8.
- Payne, J., Hanlon, J., Cantey, J., Mungnirun, K., Duvel, A., Smith, D., Gimbel, K., Nelson, M., and Gabriel, M. (1999). High-Resolution Digital Brain Atlases For Behavioral Neuroscience. Society for Neuroscience Abstracts, Program No. 352.9.
- Smith, D. M., Monteverde, J. M., Schwartz, E., Freeman, J. H., Jr, and Gabriel, M. (1998). Amygdalar Lesions Severely Impair Discriminative Avoidance, But Not Discriminative Approach Learning In Rabbits. Society for Neuroscience Abstracts, Program No. 755.1.
- Smith, D. M., Duggan, J. D., McBride, J., and Gabriel, M. (1998). Dendritic Spine Density Changes Associated With Discriminative Avoidance Training in Rabbits. Poster presented at the Medical Scholar's Symposium, Univ. of Illinois, Urbana-Champaign.
- Smith, D. M. Freeman, J. H., Jr., Boule, M., Kang, E., and Gabriel, M. (1997). Thalamic Lesions, Appetitively Motivated Discrimination Learning And Training-Induced Neuronal Activity In Rabbits. Society for Neuroscience Abstracts, 23,1617.

Smith, D. M. and Goodlett, C. R. (1995). Alcohol-Induced Aberrant Mossy Fiber Projections Depend on the Pattern of Early Postnatal Alcohol Exposure in Rats. Society for Neuroscience Abstracts, 21, 2096.

Smith, D. M., & Johnson, K. E. (1995). Effects of Varying Levels of Expertise on Backgammon Strategy Prioritization. Paper presented at the Meeting of the Psychonomics Society, Los Angeles, CA.

Society Memberships: Society for Neuroscience

Editorial Board: Hippocampus, Behavioral Neuroscience

Reviewer For: Behavioral and Brain Sciences, Current Biology, Nature Neuroscience, Neuron, Hippocampus, Journal of Neuroscience, Behavioral Neuroscience, Neuroscience, Chemical Senses, European Journal of Neuroscience, Frontiers in Behavioral Neuroscience, Behavioral Brain Research, Neuropsychologia, Neurobiology of Learning and Memory, Neurobiology of Aging, Proceedings of the National Academy of Sciences.

Co-editor of Frontiers in Neurogenesis special issue: Let us make up our minds on the role of hippocampal neurogenesis and memory. Is neurogenesis doing a little of everything or is it specialized for a particular task? Topic Editors: J Martin Wojtowicz, David M. Smith, Gordon Winocur and Sue Becker, April, 2013.

Department of Psychology Committees:

Chair, Behavioral and Evolutionary Neuroscience Search Committee, 2017-18 and 2018-19.

Graduate Executive Committee, 2006-2015, manage graduate field applications, graduate student recruiting and graduate admission.

Psychology Department Colloquium Organizer, 2009-2016.

Computing Committee, 2009-12.

Curriculum Committee, 2009-2011.

Cornell University Committees (see Service Statement for details):

Institutional Animal Care and Use Committee, 2016 – present.

Academic Integrity Board, 2016 – present.

Animal Care and Use Program Advisory Committee, 2011-12.

Department of Human Development, Cognitive Neuroscience Search Committee, 2010-11 and 2012-13.