

MARISE B. PARENT, PH.D.

PROFESSOR
 GEORGIA STATE UNIVERSITY
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EDUCATION

Postdoctoral fellow, 1993-1996, Neuroscience, *University of Virginia*, Mentor Paul Gold, Ph.D.
 (*NIH Postdoctoral National Service Award; NRSA*)

Ph.D., 1993, Biology- Neurobiology and Behavior, *University of California, Irvine*,
 Mentor James McGaugh, Ph.D. (National Academy of Sciences)
 (*Natural Sciences and Engineering Council of Canada 1967 Predoctoral fellowship; by invitation only*)

B.A., 1989, Psychology, *Concordia University*
 (*Honors, With Great Distinction, J.W. Bridges Medal for graduating with highest GPA in Psychology, Henry Birks Medal for graduating with highest GPA in Faculty of Arts; Natural Sciences and Engineering Council of Canada Undergraduate Research Award*)

A.A. 1984, Special Care Counselling, *Vanier College*

PROFESSIONAL EXPERIENCE

<u>PROFESSOR OF NEUROSCIENCE AND PSYCHOLOGY</u> Neuroscience Institute, Georgia State University	2013- present
<u>ASSOCIATE DIRECTOR</u> Neuroscience Institute, Georgia State University	2017- present
<u>FACULTY ASSOCIATE FOR UNDERGRADUATE RESEARCH AND THESES</u> Honors College, Georgia State University	2016- present
<u>FACULTY AFFILIATE</u> Honors College, Georgia State University	2013-present
<u>FACULTY MEMBER</u> Center for Neuroinflammation and Cardiometabolic Diseases	2018-present
<u>ASSOCIATE PROFESSOR OF NEUROSCIENCE</u> Neuroscience Institute, Georgia State University	2008-2013
<u>ASSOCIATE PROFESSOR OF PSYCHOLOGY</u> Department of Psychology, Georgia State University	2003-2013
<u>PROGRAM DIRECTOR</u> Biology Directorate, Division of Integrative Organismal Biology, National Science Foundation	2011-2012
<u>ADJUNCT PROFESSOR</u> Department of Psychiatry, University of Alberta	1999-2009
<u>ASSISTANT PROFESSOR</u> Department of Psychology, Georgia State University	2000-2003

ASSISTANT PROFESSOR 1996-2000
 Department of Psychology, University of Alberta
FACULTY MEMBER 1996-2000
 Division of Neuroscience, University of Alberta

OTHER NOTABLE EXPERIENCE

EXTERNAL SITE REVIEWER 2013
 Science of Learning Centers, Social, Behavioral and Economic Sciences (SBE)
 Directorate, National Science Foundation, San Diego, CA.
CO-TECHNICAL COORDINATOR 2011-2012
 Management team for the Temporal Dynamics of Learning Center, National
 Science Foundation, Arlington, VA.
GRANT REVIEW PANELIST 2011
 National Science Foundation, Neural Systems Cluster, Arlington, VA.
COUNCIL MEMBER 2008-2011
 Atlanta Chapter of the Society for Neuroscience
DIRECTOR OF GRADUATE STUDIES 2008-2011
 Neuroscience Institute, Georgia State University
DIRECTOR OF GRADUATE STUDIES 2007-2008
 Department of Psychology, Georgia State University

AWARDS AND HONORS

ALUMNI DISTINGUISHED PROFESSOR AWARD 2019
 Georgia State University
NOMINATED BY MY STUDENTS FOR OUTSTANDING TEACHING AWARD 2017
 Georgia State University College of Arts and Sciences
FACULTY OF THE YEAR 2015
 Georgia State University Undergraduate Newspaper, *The Signal*
<http://georgiastatesignal.com/faculty-of-the-year-2015-marise-parent/>
FACULTY AWARD FOR UNDERGRADUATE RESEARCH 2014
 Georgia State University Undergraduate Research Conference (GSURC)
<http://honors.gsu.edu/2014/04/09/marise-parent-faculty-undergraduate-research-award-recipient-gsurc-keynote-speaker/>
TEACHER OF THE YEAR 2000
 University of Alberta, Department of Psychology
HONOR ROLL FOR TEACHING 1996-2000
 University of Alberta, Department of Psychology (With Distinction, 1998,
 1999, 2000)
TRAVEL AWARDS 1996,
 Alberta Heritage Foundation for Medical Research 1999, 2000
TRAVEL AWARD 1998
 McGaugh Festschrift, Irvine, CA
TRAVEL AWARD 1996
 National Academy of Science, Irvine, CA
INSTITUTIONAL POSTDOCTORAL TRAINEE 1993-1995

Training in Neurobiological and Behavioral Development, University of Virginia

GORDON BENNETT SCHOLARSHIP FOR ACADEMIC ACHIEVEMENT 1987

Concordia University, Montreal, Canada

PATRICK G. MALONE SCHOLARSHIP FOR ACADEMIC ACHIEVEMENT 1987

Concordia University, Montreal, Canada

DEAN'S LIST 1984-1989

College of Arts and Sciences, Concordia University, Montreal, Canada

PROFESSIONAL MEMBERSHIPS

Molecular and Cellular Cognition Society 2018-

Nu Rho Psi National Honor Society in Neuroscience 2016-

Faculty for Undergraduate Neuroscience 2013-

Society for Neuroscience (Trainee Professional Award Selection Committee; 1989-

2018-2020, International Travel Awards Selection Committee, 2019)

Society for Behavioral Neuroendocrinology 2011-2018

Society for the Study of Ingestive Behavior 2015-2016

Association for Psychological Science 1990-2012

SCHOLARSHIP AND PROFESSIONAL DEVELOPMENT

GRANTS

ACTIVE

PRINCIPAL INVESTIGATOR

NIH-NIDDDK RO1DK114700

9/3/18-6/30/2021

\$1,174,889 (total costs)

Hippocampal modulation of energy intake

COMPLETED-FEDERAL

SPECIAL VISITING SCIENTIST

Government of Brazil Science Without Borders Program

9/3/2014-9/2/2017

R\$49,996 (total costs)

“Influence of hippocampal GRPR on energy intake and food-related memory”

PRINCIPAL INVESTIGATOR

National Science Foundation IOS-112188

9/1/2011-8/30/2017

\$590,057 (total costs)

“Hippocampal modulation of energy intake

Two Supplements for NSF grant listed above
Research Experience for Undergraduates
(REUs)

3/24/2014-8/30/2017

\$12,000 (total costs)

National Science Foundation

8/8/2011-8/7/2012

\$104,270 (total costs)

Salary cost-share while on NSF assignment

Center for Disease Control and
Prevention/DHHS

7/1/2007-6/30/2009

\$59,964 (direct costs)

	“The effects of a high fructose diet on brain and behavior”
NINDS-NIDDK-JDF RO1 NS41173-02	2000-2005 \$916,385 (total costs) “Neurochemical and behavioral effects of hyperglycemia”
Canadian Diabetes Foundation	2000-2002 \$104,000 CAD (direct costs) “The effects of chronic hyperglycemia on memory and neurochemistry”
Natural Science and Engineering Research Council of Canada	1997-2001 \$88,000 CAD (direct costs) “Neurochemical regulation of memory in the amygdala”
Natural Science and Engineering Research Council of Canada	1997 \$18,382 CAD (direct costs) Equipment grant to establish a “Laboratory for the study of neural mechanisms of learning and memory.”
NIMH Behavioral Science Track Award for Rapid Transition (B/START)	1996 \$25,000 (direct costs) “Role of amygdala regions in drug effects on memory”
<u>POSTDOCTORAL GRANT</u> NIH Postdoctoral National Research Service Award (NRSA)	1995–1996 \$54,200 (direct costs) “Aging and central GABAergic Memory Modulatory Systems”
<i>COMPLETED-NON-FEDERAL</i> <u>PRINCIPAL INVESTIGATOR</u> Georgia State University Brains and Behavior Program	7/1/2017-6/30/2018 \$30,000 (direct costs) “Preliminary data to support resubmission of RO1 application, “Hippocampal modulation of energy intake”
Georgia State University Center for Obesity Reversal	7/1/2016-6/30/2017 \$20,000 (direct costs) “Preliminary data to support a NIH application investigating neural mechanisms underlying cognitive inhibition of energy intake”

Georgia State University Brains and Behavior Program	7/1/2015-6/30/2016 \$30,000 (direct costs) “Neural mechanisms underlying cognitive inhibition of energy intake”
Georgia State University Brains and Behavior Program	7/1/2009-6/30/2010 \$29,700 (direct costs) “Obesity, triglycerides, and brain function
CDC/GSU Seed Grant Award for Social and Behavioral Science Research	7/1/2007-6/30/2009 \$59,964 (direct costs) “The effects of a high fructose diet on brain and behavior”
Georgia State University Brains & Behavior Program	7/1/2008 \$38,452.64 (direct costs) “Equipment grant to purchase Cleversys Behavioral Recognition Software and associated hardware”
Georgia State University Brains & Behavior Program	7/1/2007-6/30/2008 \$30,365 (direct costs) “The effects of a high fructose diet on hippocampal-dependent memory”
Georgia State University Brains & Behavior Program	7/1/2005-6/30/2006 \$29,986 (direct costs) “The pathological effects of a high fructose diet on body weight and memory”
Center for Behavioral Neuroscience (National Science Foundation, Science and Technology Center) Venture Grant	7/1/2002-6/30/2003 \$30,000 (direct costs) “Neuroimaging Hormonal Effects on Emotional Memory”
<u>CO-INVESTIGATOR</u> Georgia State University Research Program Enhancement	7/1/2005-6/30/2011 \$150,000 (direct costs) “A multidisciplinary approach to learning and intelligence”
Center for Behavioral Neuroscience (National Science Foundation, Science and Technology Center) Venture Grant	7/1/2001-6/30/2002 \$30,000 (direct costs) “Neurobiology of Conditioned Defeat”

PEER REVIEWED PUBLICATIONS *graduate student author **undergraduate student author

1. White, D.R., **Parent**, M.B., Chang, H., & Spindler, J. (1992). Parental selection of quality child care. *The Canadian Journal of Research in Early Childhood Education*, 3(2), 101-108.

2. **Parent, M.B., Tomaz, C., McGaugh, J.L. (1992).** Increased training in an aversively motivated task attenuates the memory-impairing effects of posttraining N-methyl-D-aspartate-induced amygdala lesions. *Behavioral Neuroscience, 106*: 789-797. PMID: 1445657
3. McGaugh, J.L., Introini-Collison, I. Cahill, L.F., Castellano, C., Dalmaz, C., **Parent, M.B., & Williams, C.L. (1993).** Neuromodulatory systems and memory storage: Role of the amygdala. *Behavioral Brain Research, 58*, 81-90. PMID: 7907881
4. **Parent, M.B., & McGaugh, J.L. (1994).** Posttraining infusion of lidocaine into the amygdala basolateral complex impairs retention of inhibitory avoidance training. *Brain Research, 661*, 97-103. PMID: 7834391
5. **Parent, M.B., **West, M., & McGaugh, J.L. (1994).** Memory of rats with amygdala lesions induced 30 days after footshock-motivated escape training reflects degree of original training. *Behavioral Neuroscience, 108(6)*, 1080-1087. PMID: 7893400
6. **Parent, M.B., **Avila, E., & McGaugh, J.L. (1995).** Footshock facilitates the expression of aversively-motivated memory in rats with posttraining amygdala basolateral complex lesions. *Brain Research, 676*, 235-244. PMID: 7613994
7. **Parent, M.B., Quirarte, G.L., Cahill, L., & McGaugh, J.L. (1995).** Spared retention of inhibitory avoidance following posttraining amygdala lesions. *Behavioral Neuroscience, 109*, 803-807. PMID: 7576225
8. *Salinas, J.A., **Parent, M.B., & McGaugh, J.L. (1996).** Ibotenic acid lesions of the amygdala basolateral complex or central nucleus differentially affect the response to reductions in reward. *Brain Research, 742*, 283-293. PMID: 9117406
9. **Parent, M.B. & Gold, P.E. (1997).** Intra-septal infusions of glucose potentiate inhibitory avoidance deficits when co-infused with the GABA agonist muscimol. *Brain Research, 745*, 317-320. PMID: 9037425
10. **Parent, M.B., **Laurey, P.T., *Wilkniss, S., & Gold, P.E. (1997).** Intra-septal infusions of muscimol impair spontaneous alternation performance: Infusions of glucose into the hippocampus, but not the medial septum, reverse the deficit. *Neurobiology of Learning and Memory, 68*, 75-85. PMID: 9195592
11. **Parent, M.B., **Habib, M. & Baker, G.B. (1999).** Task-dependent effects of the antidepressant/antipanic drug phenelzine on memory. *Psychopharmacology, 142*, 280-288. PMID: 10208320
12. **Parent, M.B., Varnhagen, C. & Gold, P.E. (1999).** A memory-enhancing emotional narrative elevates blood glucose levels in human subjects. *Psychobiology, 27*, 386-396.
13. *Lehmann, H., Treit, D., & **Parent, M.B. (2000).** Amygdala lesions do not impair shock-probe avoidance retention performance. *Behavioral Neuroscience, 114*, 107-116. PMID: 10718266
14. **Parent, M.B., **Habib, M., & Baker, G.B. (2000).** Time-dependent changes in brain monoamine oxidase, monoamines, and amino acids following acute administration of the antidepressant/antipanic drug phenelzine. *Biochemical Pharmacology, 59*, 1253-1263. PMID: 10736426
15. *DeGroot, A & **Parent, M.B. (2000).** Increasing acetylcholine levels in the hippocampus or entorhinal cortex reverses the impairing effects of septal GABA receptor activation on spontaneous alternation. *Learning and Memory, 7*, 293-302. PMID: 11040261

16. **Blake, T., Varnhagen, C. & **Parent, M.B.** (2001). Emotionally-arousing pictures increase blood glucose levels and enhance recall. *Neurobiology of Learning and Memory*, 75, 262-273. PMID: 11300733
17. Chen, Z., Wu, J., Baker, G.B., **Parent, M.**, & Dovichi, N.J. (2001). Application of capillary electrophoresis with laser-induced fluorescence detection to the determination of biogenic amines and amino acids in brain microdialysate and homogenate samples. *Journal of Chromatography A*, 914, 293-298.
18. *DeGroot, A & **Parent, M.B.** (2001). Infusions of physostigmine into the hippocampus or the entorhinal cortex attenuate avoidance retention deficits produced by intra-septal infusions of the GABA agonist muscimol. *Brain Research*, 920, 10-18. PMID: 11716806
19. **Parent, M.B.**, **Master, S., *Kashluba, S., & Baker, G.B. (2002). Effects of the antidepressant/antipanic drug phenelzine and its putative metabolite phenylethylidenehydrazine on extracellular GABA levels in the striatum. *Biochemical Pharmacology*, 63, 57-64. PMID: 11754874
20. Tanay, V.,A-M., **Parent, M.B.**, Wong, T.F., Paslawski, T., Martin, I.L. & Baker, G.B. (2001). Effects of the antidepressant/antipanic drug phenelzine on alanine and alanine transaminase in rat brain. *Cellular and Molecular Neurobiology*, 4, 325-339. PMID: 11775064
21. *Crowder, N.A., *Lehmann, H. **Parent, M.B.**, & Wylie, D.R.W. (2003). The accessory optic system contributes to spatio-temporal tuning of motion-selective pretectal neurons. *Journal of Neurophysiology*. 90(2): 1140-51. PMID: 12611994
22. *Shah, A.A., & **Parent, M.B.** (2003). Septal infusions of glucose or pyruvate, but not fructose, produce avoidance deficits when coinjected with the GABA agonist muscimol. *Neurobiology of Learning and Memory*, 79, 243-251. PMID: 12676523
23. *Degroot, A. Kornecook, T. Quirion, R., *De Bow, S., & **Parent, M.B.** (2003). Glucose increases hippocampal acetylcholine upon activation of septal GABA receptors. *Brain Research*, 979, 71-77. PMID 12850573
24. *Lehman, H., Treit, D., & **Parent, M.B.** (2003). Spared anterograde memory for shock-probe fear conditioning after inactivation of the amygdala. *Learning and Memory*, 10, 261-269. PMID 12888544
25. *Shah, A.A., & **Parent, M.B.** (2004). Septal infusions of glucose or pyruvate with muscimol impair spontaneous alternation. *Brain Research*, 996, 246-250. PMID 14697502
26. **Parent, M.B.** & Baxter, M.G. (2004). Septo-hippocampal acetylcholine: Involved in but not necessary for learning and memory? *Learning and Memory*, 11: 9-20. PMID: 14747512
27. *Krebs, D.L. & **Parent, M.B.** (2005a). The enhancing effects of hippocampal infusions of glucose are not restricted to spatial working memory. *Neurobiology of Learning and Memory*, 83, 168-172. PMID 15721802
28. *Krebs, D.L. & **Parent, M.B.** (2005b). Hippocampal infusions of pyruvate reverse the memory-impairing effects of septal GABA receptor activation. *European Journal of Pharmacology*, 520, 91-99. PMID: 16150437
29. **Erickson, E.J., Watts, K. & **Parent, M. B.** (2006). Septal infusions of glucose with a GABA-B agonist impair memory. *Neurobiology of Learning and Memory*, 85, 66-70. PMID: 16226043
30. *Gore, J.B., *Krebs, D.L., & **Parent, M. B.** (2006). Changes in blood glucose and salivary cortisol are not necessary for arousal to enhance memory in young or older adults. *Psychoneuroendocrinology*, 31, 589-600. PMID 16530333

31. Spetch, M.L. & **Parent**, M.B. (2006). Age and sex differences in children's spatial search strategies. *Psychonomic Bulletin and Review*, 13(5), 807-812. PMID 17328377
32. *Krebs-Kraft, D.L & **Parent** M.B. (2008). Hippocampal infusions of glucose reverse memory deficits produced by co-infusions of a GABA receptor agonist. *Neurobiology of Learning and Memory*, 89(2), 142-152. PMID 17728160
33. *Krebs-Kraft, D.L, **Wheeler, M.G, & **Parent** M.B. (2007). The memory-impairing effects of septal GABA receptor activation involve GABAergic septo-hippocampal projection neurons. *Learning and Memory*, 14(12), 833-41. PMID: 18086826
34. *Cissé, R.S. *Krebs-Kraft, D.L & **Parent** M.B. (2008). Septal infusions of the hyperpolarization-activated cyclic nucleotide-gated channel (HCN-channel) blocker ZD7288 impair spontaneous alternation but not inhibitory avoidance. *Behavioral Neuroscience*, 122, 549-556. PMID: 18513125
35. *Krebs-Kraft, D.L, Rauw, G. Baker, G.B. & **Parent**, M.B. (2009). Zero net flux estimates of septal extracellular glucose levels and the effects of glucose on septal extracellular GABA levels. *European Journal of Pharmacology*, 611, 44-52. PMID: 19345207
36. *Ross, A.P., Bartness, T.B., Mielke, J.G. & **Parent**, M.B. (2009). A high fructose diet impairs spatial memory in male rats. *Neurobiology of Learning and Memory*, 92: 410-416. PMID: 19500683
37. *Batty, E., Spetch, M.L. & **Parent**, M.B. (2010). Proximity to an edge affects search strategy in adults and children. *Behavioral Processes*, 85: 265-277.
38. *Krebs-Kraft, D.L, & **Parent**, M.B. (2010). Septal co-infusions of glucose with the benzodiazepine agonist chlordiazepoxide impair memory, but co-infusions of glucose with the opiate morphine do not. *Physiology and Behavior*, 99:438-444. PMID: 20005883
39. **Parent**, M.B., *Krebs-Kraft, D.L, *Ryan, J.P., *Wilson, J.S., *Harenski, C. & Hamman, S. (2011). Glucose administration enhances fMRI brain activation and connectivity related to episodic memory encoding for neutral and emotional stimuli. *Neuropsychologia*, 49:1052-1066. PMID: 21335014
40. *Bruggeman, E.C., *Li, C., *Ross, A.P., *Doherty, J.H., Williams, B.F. Frantz, K.J. & **Parent**, M.B. (2011). A high fructose diet does not affect amphetamine self-administration or spatial water maze learning and memory in female rats. *Pharmacology, Biochemistry, and Behavior*, 99: 356-364. PMID 21624392
41. *Ross, A.P., *Bruggeman, E.C, **Kasumu, A.W., Mielke, J.G. & **Parent**, M.B. (2012). Non-alcoholic fatty liver disease impairs hippocampal-dependent memory in male rats. *Physiology and Behavior*, 106:133-141. PMID: 22280920
42. *Henderson, Y.O, Smith, G.P. & **Parent**, M.B. (2013). Hippocampal neurons inhibit meal onset. *Hippocampus*, 23: 100-107. PMID: 22927320 ***Faculty of 1000 Prime Recommended**
43. *Darling, J.N., *Ross, A.P., Bartness, T.J., & **Parent**, M.B. (2013). Predicting the effects of a high-energy diet on fatty liver and hippocampal-dependent memory in male rats. *Obesity*, 21: 910-917. PMID: 23784893
44. *Ross, A.P., *Darling, J.N., & **Parent**, M.B. (2013). High energy diets prevent the enhancing effects of emotional arousal on memory. *Behavioral Neuroscience*, 127: 771-779. PMID: 23784893
45. **Parent**, M.B., *Darling, J.N., *Henderson, Y.O. (2014). Remembering to eat: Hippocampal regulation of meal onset. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*, 306: R701-713. PMID: 24573183

46. *Henderson, Y.O., *Victoria, N.C., Inoue, K., Murphy, A.Z., & **Parent, M.B.** (2015). Early life inflammatory pain induces long-lasting deficits in hippocampal-dependent spatial memory in male and female rats. *Neurobiology of Learning and Memory*, 118: 30-41. PMID: 25451312
47. *Ross, A.P., *Darling J.N., & **Parent, M.B.** (2015). Excess intake of fat and sugar potentiates epinephrine-induced hyperglycemia in male rats. *Journal of Diabetes and its Complications*, 29: 329-337. PMID: 25716573
48. *Gray, C.L., *Krebs-Kraft, D.L., *Solomon, M.B., Norvelle, A., **Parent, M.B.**, & Huhman, K.L. (2015). Immediate post-defeat infusions of the noradrenergic antagonist propranolol impair the consolidation of conditioned defeat in male Syrian hamsters. *Physiology & Behavior*, 152(PtA): 56-61. PMID: 26367452
49. *Henderson, Y.O., Nalloor, R., Vazdarjanova, A. & **Parent, M.B.** (2016). Sweet orosensation induces Arc expression in dorsal hippocampal CA1 neurons in an experience-dependent manner. *Hippocampus*, 26: 405-413. PMID: 26386270
50. *Petry, F.S., Dornelles, A.S., Lichtenfels, M., *Valiati, F.E., de Farias, C.B., Schwartsmann, G., **Parent, M.B.**, Roesler, R. (2016). Histone deacetylase inhibition prevents the impairing effects of hippocampal gastrin-releasing peptide receptor antagonism on memory consolidation and extinction. *Behavioral Brain Research*, 307: 46-53. PMID: 27025446
51. **Parent, M.B.** (2016). Cognitive control of meal onset and meal size: Role of dorsal hippocampal-dependent episodic memory. *Physiology & Behavior*, 162: 112-119. PMID: 27083124
52. **Parent, M.B.** (2016). Dorsal hippocampal-dependent episodic memory inhibits ingestive behavior. *Current Directions in Psychological Science*, 25: 461-466. DOI: 10.1177/0963721416665103
53. *Henderson, Y.O., Nalloor, R., Vazdarjanova, A., Murphy, A.Z. & **Parent, M.B.** (2017). Sex-dependent effects of early life inflammatory pain on sucrose intake and sucrose-associated hippocampal Arc expression in adult rats. *Physiology & Behavior*, 173: 1-8. PMID: 28108332
54. *Hannapel, R.C., *Henderson, Y.O., Nalloor, R., Vazdarjanova, A. & **Parent, M.B.** (2017). Ventral hippocampal neurons inhibit postprandial energy intake. *Hippocampus*, 27:274-284. PMID 28121049
55. Ross, A.P., **Barnett, N., **Faulkner, A., *Hannapel, R.C., & **Parent, M.B.** (2019). Sucrose ingestion induces glutamate AMPA receptor phosphorylation in dorsal hippocampal neurons: Increased previous sucrose experience prevents this effect. *Behavioural Brain Research*, 359:792-798. PMID 30075854
56. *Hannapel, R.C., **Ramesh, J., Ross, A.P., LaLumiere, R.T., Roseberry, A., & **Parent, M.B.** (2019). Postmeal optogenetic inhibition of dorsal or ventral hippocampal pyramidal neurons increases future intake. *eNeuro, Jan 2;6(1)*: ENEURO.0457-18.2018; DOI: <https://doi.org/10.1523/ENEURO.0457-18.2018>. PMID 30693314

BOOK CHAPTERS *graduate student author **undergraduate student author

1. *Bruggeman, E.C., *Ross, A.P., & **Parent, M.B.** (2012). Detrimental effects of excessive fructose ingestion on memory and other brain functions. *In Fructose: Synthesis, Functions and Health Implications*. pp. 81 – 100. Nova Publishers.

2. *Krebs-Kraft, D.L, Frantz, K.J, & Parent, M.B. (2007). *In vivo* microdialysis: A method for sampling extracellular fluid in discrete brain regions. *Handbook of Neurochemistry and Molecular Neurobiology, 3rd ed.: Practical Neurochemistry: Methods*. pp. 221- 242. Kluwer Academic Publishers.
3. Parent, M., Bush, D., Rauw, G., **Master, S., Vaccarino, F., & Baker, G. (2001). Analysis of amino acids and catecholamines, 5-hydroxytryptamine, and their metabolites in brain areas in the rat using *in vivo* microdialysis. *Methods*, 23, 11-20.
4. McGaugh, J.L., Cahill, L., Parent, M.B., Mesches, M.H., Coleman-Mesches, K., & Salinas, J.A. (1995). Involvement of the amygdala in the regulation of memory storage. In J.L. McGaugh, F. Bermudez-Rattoni, & R. Prado-Alcala (Eds.), *Plasticity in the Central Nervous System: Learning and Memory*. Hillsdale, N.J.: Lawrence Erlbaum Associates.

DISSERTATION THESIS

Parent, M.B. (1993). The amygdala and aversive memory: Modulation or mediation? University of California, Irvine.

INVITED RESEARCH PRESENTATIONS

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1. Hippocampal control of future eating behavior. <i>University of Florida Neuroscience Seminar, McKnight Brain Institute and Department of Neuroscience</i> , Gainesville, FL. | October
2018 |
| 2. Hippocampal synaptic plasticity and eating behavior. <i>International Conference on Learning and Memory</i> , Huntington Beach, CA. | March
2018 |
| 3. Hippocampal modulation of energy intake. <i>Department of Molecular and Cellular Biology Seminar Series, Kennesaw State University</i> . | January
2018 |
| 4. Eating to forget, forgetting what you ate: Interactions between memory and ingestive behavior. <i>Department of Foods and Nutrition Seminar, University of Georgia</i> , Athens, GA. | January
2018 |
| 5. Hippocampal synaptic plasticity influences eating behavior. <i>Graduate Program in Biological Sciences: Pharmacology and Therapeutics, Institute for Basic Health Sciences, Federal University of Rio Grande Do Sul</i> , Porto Alegre, Brazil. | July 2017 |
| 6. Limiting energy intake during the postprandial period: Role of hippocampal glutamatergic neurons. <i>Experimental Research Center Seminar, Clinical Hospital (CPE-HEPA), Federal University of Rio Grande Do Sul</i> , Porto Alegre, Brazil. | July 2017 |
| 7. Memory and ingestive behavior: A vicious cycle. <i>Neuroscience Program Seminar Series, University of Georgia</i> , Athens, GA. | May 2017 |
| 8. Eating to forget: Reciprocal interactions between memory and ingestive behavior. <i>Georgia Academy of Nutrition and Dietetics Annual Conference and Exhibition</i> , Savannah, GA. | March
2017 |
| 9. Memory, obesity and free will. <i>Emory University Neuroethics Program Seminar</i> , Atlanta, GA. | April 2016 |
| 10. Hippocampal modulation of energy intake. <i>North Georgia Regional Annual Memory Meeting (NGRAMM)</i> , Atlanta, GA. | September
2015 |

11. Remembering to eat or not: Hippocampal regulation of energy intake. *23rd Annual Meeting of the Society for the Study of Ingestive Behavior*, Denver, CO. July 2015
12. Reciprocal interactions between memory and energy intake. *Graduate Program in Cellular and Molecular Biology, Pontificia Universidade Católica do Rio Grande do Sul*, Porto Alegre, Brazil. June 2015
13. Remembering to eat: Reciprocal interactions between memory and energy intake. *Experimental Research Center Seminar, Clinical Hospital (CPE-HEPA), Federal University of Rio Grande Do Sul*, Porto Alegre, Brazil. June 2015
14. Eating and memory: A vicious cycle? Graduate Program in Biological Sciences: Pharmacology and Therapeutics, Institute for Basic Health Sciences, *Federal University of Rio Grande Do Sul*, Porto Alegre, Brazil. June 2015
15. Reciprocal interactions between memory and energy intake. *XXXIIX Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah. January 2015
16. Eating and memory: A vicious cycle? *Society for Neuroscience Latin American Training Program, Neurobiology Institute, National University of Mexico, Queretaro, Mexico* August 2014
17. Remembering to eat: Reciprocal interactions between memory and energy intake. *Georgia State University Undergraduate Research Conference (GSURC) Keynote Address*, Atlanta, GA. April 2014
18. Reciprocal interactions between memory and energy intake. *Emory University Department of Physiology Seminar Series*, Atlanta, GA. March, 2014
19. Remembering to eat: Reciprocal interactions between memory and energy intake. *University of Alabama at Birmingham Nutrition Obesity Research Center and Department of Nutrition Sciences Seminar Series*, Birmingham, AL. March 2014
20. Reciprocal interactions between memory and energy intake. *Georgia Regents University Brain and Behavior Discovery Institute Seminar*, Augusta, GA Jan. 2013
21. Eating to forget: Overconsumption of fat and sugar impairs memory. *Clayton State University Department of Biology Seminar*, Morrow, GA Nov. 2012
22. Reciprocal interactions between memory and energy intake. *University of Texas Dallas School of Behavioral and Brain Sciences*, Dallas, TX. Dec. 2011
23. Reciprocal interactions between memory and energy intake. *University of California, Irvine, Center for the Neurobiology of Learning and Memory*, Irvine, CA. Oct. 2011
24. Eating to forget: Effects of high-energy diets on memory. *15th Annual Meeting of the Society for Behavioral Neuroendocrinology, Queretero, Mexico* June 2011
25. Reciprocal interactions between energy intake and memory. *National Science Foundation, Division of Integrative Organismal Systems*, Arlington, VA. Feb. 2011
26. The effects of a high fructose diet on brain and behavior, *Social and Behavioral Science Symposium, Office of the Vice President for Research, Georgia State University and Office of Public Health Research, Office of* Nov. 2009

- the Chief Science Officer, Centers for Disease Control and Prevention. Atlanta, GA.*
27. Neuropsychological implications of insulin resistance 37th Annual Meeting of the International Neuropsychological Society, Atlanta, GA. Feb. 2009
 28. Food makes me happy but I can't remember why: Pathological effects of fructose on brain and behavior. Georgia State University Brain and Behavior Spring Retreat, Atlanta, GA. May 2008
 29. Pathological effects of a high fructose diet on brain and behavior. GA/SC Neuroscience Consortium, Augusta, GA. April 2007
 30. Contributions of the septo-hippocampal system to memory: behavioral pharmacological analysis. The Center for Biomedical Seminar Series, University of Texas, Brownsville, Brownsville, TX Feb. 2007
 31. Neural mechanisms involved in the effects of glucose on spatial working memory. Eleventh Cognitive Science Association for Interdisciplinary Learning, Hood River, OR. Aug. 2005
 32. The positive and negative effects of glucose on memory: neurotransmitter- and brain region-specificity. Department of Psychology, University of Ottawa, Ottawa, ON Canada June 2005
 33. The positive and negative effects of glucose on memory: potential brain mechanisms. Department of Biology, Spelman College, Atlanta, GA. Nov. 2004
 34. The positive and negative effects of glucose on memory. Neurobiology Institute, National University of Mexico, Queretaro, Mexico. March 2004
 35. Potential mechanisms underlying the enhancing and impairing effects of glucose on memory. Center for the Neurobiology of Learning and Memory, University of California, Irvine, Irvine, CA. Aug. 2003
 36. Potential contributions of glucose to the memory-enhancing effects of emotion. Social-Cognitive Program Hard Data Café, Georgia State University, Atlanta, GA. March 2003
 37. Positive and negative effects of glucose on memory. Neuroscience and Animal Behavior Speaker Series, Emory University Department of Psychology, Atlanta, GA. Jan. 2003
 38. Glucose and emotional memory: From rodents to humans. Animal Behavior Speaker Series, Oglethorpe University, Atlanta, GA. Oct. 2001
 39. Neurochemical regulation of learning and memory. Department of Biology Lecture Series, Georgia State University, Atlanta, GA. Oct. 2001
 40. The relevance of multiple memory systems to human amnesia. Neurology Rounds, University of Alberta, Edmonton, Alberta. April 2000
 41. Emotional and neurochemical regulation of learning and memory. Department of Psychology, University of Vermont, Burlington, VT Feb. 2000
 42. Biochemical regulation of learning and memory: positive and negative contributions of glucose. Department of Psychology, Georgia State University, Atlanta, GA. Feb. 2000
 43. Emotional and neurochemical regulation of learning and memory. Department of Psychology, SUNY Stonybrook, Stonybrook, NY. Jan. 2000
 44. Neurochemical regulation of learning and memory. Astra Research Centre, Montreal, Quebec. June 1998

45. Effects of GABA on learning and memory. *Department of Biological Sciences, University of Alberta, Edmonton, Alberta.* March 1998
46. Neural regulation of learning and memory. *Division of Neuroscience, University of Alberta, Edmonton, Alberta* Dec. 1997
47. Emotional regulation of fight, flight, and remembrance: More bang for your buck. *Banff Annual Seminar in Cognitive Science, Banff, Alberta.* May 1997
48. Contributions of the amygdala and medial septum in the neural regulation of learning and memory. *Department of Psychology, Brown University, Providence, RI.* March 1996
49. Contributions of the amygdala and medial septum in the neural regulation of learning and memory. *Department of Psychology, University of Alberta, Edmonton, Alberta* Feb. 1996
50. Neuroregulation of learning and memory: Contributions of the amygdala and medial septum. *Neuroscience Program, Williams College, Williamstown, MA* March 1995

INVITED OUTREACH PRESENTATIONS/ARTICLES

1. Memories of eating influence your next meal- new research pinpoints brain cells involved. *The Conversation.* https://theconversation.com/memories-of-eating-influence-your-next-meal-new-research-pinpoints-brain-cells-involved-109713?fbclid=IwAR0ju8G8-DW8v2AdjvPvaOw6yVPMgJVfvVSrydugATHyBZCUMJNiU_tN8fk January 2019
2. Expert discussant, 500 Women in Science screening of *My Love Affair with the Brain: The life and science of Dr. Marian Diamond*, Atlanta, GA. November 2018
3. Remember to eat: Neurobiology of memory and eating. *Georgia State University American Medical Student Association (AMSA)*, Atlanta, GA. October 2018
4. To eat or not to eat. *Georgia State University Collegiate Neuroscience Society (CNS)*, Atlanta, GA. November 2016
5. Hippocampal synaptic plasticity: The brain that changes itself. *Student league for Neurology and Neurosurgery, Universidade Federal Do Rio Grande Do Sul, Porto Algre, Brazil.* June 2016
6. Optogenetics to interrogate brain function. *Postgraduate Program in Pharmacology and Therapeutics, Universidade Federal Do Rio Grande Do Sul, Porto Algre, Brazil.* June 2016
7. Optogenetics and other recent technological advances to interrogate brain function. *Center for Biotechnology Seminar Series, Universidade Federal Do Rio Grande Do Sul, Porto Algre, Brazil.* June 2016
8. Behavioral models to study the neurobiology of learning and memory. *Society for Neuroscience Latin American Training Program, Neurobiology Institute, National University of Mexico, Queretaro, Mexico.* August 2014
9. Career Development Workshop Panelist, *Society for the study of ingestive behavior*, Denver, CO. July 2015
10. Eating to forget: Overconsumption of fat and sugar impairs memory. *New York City Department of Education, Brain Research Seminar Keynote Address*, New York, NY June 2012

11. The National Science Foundation: Funding opportunities, procedures, and tips. *University of Texas Dallas Office of Research*, Dallas, TX. Dec. 2011
12. The National Science Foundation: Funding Opportunities, Procedures, and Tips. *Orange County Chapter of the Society For Neuroscience*, Irvine, CA. Oct. 2011
13. The National Science Foundation: Recent changes to funding policies. *Georgia State University Office of Sponsored Research*, Atlanta, GA. Sept. 2011
14. Science outreach and global science education: What are our responsibilities? *15th Annual Meeting of the Society for Behavioral Neuroendocrinology*, Queretero, Mexico. June 2011
15. Eating to forget: High energy diets impair memory. *Learning Brain Expo*, Jacksonville, FL. Feb. 2011
16. Food makes me happy but I can't remember why. *Learning Brain Expo*, New Orleans, LA July 2007
17. Emotion and memory. *Learning Brain Expo*, Orlando, FL July 2006
18. Glucose and memory. *Learning Brain Expo* Orlando, FL July 2006
19. Emotion and memory. *Learning Brain Expo*, Atlanta, GA May 2006
20. The effects of glucose on the brain and memory. *Learning Brain Expo*, Atlanta, GA. June 2005
21. Brain mechanisms of learning and memory. *Biomedical Institute on Neuroscience for High School Students*, Center for Behavioral Neuroscience, Atlanta, GA June 2003
22. How researchers learn about the brain. *Learning Brain Expo*, Atlanta, GA. Aug. 2001

CONFERENCES AND SYMPOSIA, CHAIRED OR ORGANIZED

1. Session organizer and chair: Reciprocal interactions between memory and energy intake: A vicious cycle, *39th Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah. Jan. 2015
2. Session organizer and chair: Neuroethology of Memory, *28th Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah. Jan. 2004
3. Co-organizer: *Twelfth Canadian Spring Conference on Behaviour and Brain*, Fernie, British Columbia. Feb. 2000
4. Session organizer and chair: History of memory consolidation, *24th Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah. Jan. 2000
5. Organizer and chair: Brain and Plasticity symposium, *Ninth Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science* (BBCS), Edmonton, Alberta. June 1999
6. Session chair: *Four Decades of Memory: A Festschrift Honoring James L. McGaugh*, Irvine, CA. Nov. 1998

PRESENTATIONS AT PROFESSIONAL MEETINGS (last 10 years)

1. Ross, A.P., Kasumu, A. Bruggeman, E.C. Kimmons, J. Blanck, & Parent, M.B. (2008). The effects of consuming a high fructose diet beginning in adolescence on adult rat hippocampal-dependent memory. *Annual Meeting of the Society for Neuroscience*, Washington, DC.

2. Bruggeman, E., Darling, J., Bartness, T. & **Parent, M.B.** (2009). Fish oil attenuates the memory-impairing effects of a high-fructose diet in male rats. *Annual Meeting of the Society for Neuroscience*, Chicago, IL.
3. Frantz, K.J., Lee, A., Doherty, J., Li, C. Williams, B., Ross, A., Bruggeman, E., **Parent, M.B.** (2009). A high fructose diet does not affect amphetamine self-administration. *Annual Meeting of the Society for Neuroscience*, Chicago, IL.
4. **Parent, M.B.** (2009). A high fructose diet impairs hippocampal-dependent spatial water maze retention performance. *XXXIII Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah.
5. Darling, J.N., Ross, A.P., Bartness, T.B. & **Parent, M.B.** (2010). Voluntary consumption of a high calorie diet impairs hippocampal-dependent memory in male rats. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
6. Ross, A.P., Darling, J. & **Parent, M.B.** (2010). Non-alcoholic fatty liver disease potentiates the effects of epinephrine on blood glucose levels. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
7. Ogawa, Y., Smith, G.P., Vazdarjanova, A., & **Parent, M.B.** (2011). To eat or not to eat: Hippocampal involvement in meal onset. *Annual Meeting of the Society for Neuroscience*, Washington, DC.
8. **Parent, M.B.**, Ogawa, Y., Victoria, N. & Murphy, A.Z. (2011). Impact of neonatal pain and inflammation on hippocampal-dependent memory. *Annual Meeting of the Society for Neuroscience*, Washington, DC.
9. Darling, J.N., Ross, A.P., Bartness, T.B. & **Parent, M.B.** (2012). Over-nutrition-induced obesity, liver pathology and brain dysfunction. *ECO2012: 19th European Congress on Obesity*, Lyon, France.
10. Ogawa, Y., Smith, G.P., & **Parent, M.B.** (2012). Hippocampal involvement in meal onset. *XXXVI Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah.
11. **Parent, M.B.**, Ogawa, Y., Victoria, N. & Murphy, A.Z. (2012). Neonatal pain and inflammation impairs hippocampal-dependent memory. *XXXVI Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah.
12. Darling, J.N., Ross, A.P., & **Parent, M.B.** (2012). Voluntary consumption of a high-energy diet prevents the memory-enhancing effects of acute stress in male rats. *Annual Meeting of the Society for Neuroscience*, New Orleans, LA.
13. Ogawa, Y., Victoria, N. & Murphy, A.Z., & **Parent, M.B.** (2012). Neonatal inflammatory pain increases food intake and body weight in adulthood and impairs hippocampal-dependent memory. *Annual Meeting of the Society for Neuroscience*, New Orleans, LA.
14. **Parent, M.B.** and Henderson, Y.O. (2013). Interrelated effects of neonatal inflammatory pain on memory, meal onset, and body mass. *XXXVII Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah.
15. Darling, J.N. & **Parent, M.B.** (2013). The relationship between memory and meal onset in obesity. *XXXVII Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah.
16. Ogawa Henderson, Y., Murphy, A.Z., Vazdarjanova, A., & **Parent, M.B.** (2013). Relationship between hippocampal-dependent memory and meal onset, body mass and eating-associated hippocampal synaptic plasticity. *17th Annual Meeting of the Society for Behavioral Neuroendocrinology*, Atlanta, GA.

17. Ogawa Henderson, Y., Vazdarjanova, A., Murphy, A.Z., & **Parent**, M.B. (2013). Eating-associated hippocampal expression of the synaptic plasticity marker Arc correlates with the duration of the postprandial intermeal interval and is diminished in rats with poor hippocampal-dependent spatial memory. *Annual Meeting of the Obesity Society*, Atlanta, GA.
18. Ross, A.P., Darling, J.N. & **Parent**, M.B. (2013). A high-energy diet potentiates epinephrine-induced increases in blood glucose concentrations in male rats. *Annual Meeting of the Obesity Society*, Atlanta, GA.
19. Gentry, J., Darling, J.N. & **Parent**, M.B. (2013). Blocking hippocampal acetylcholine receptors may accelerate meal onset in male rats. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
20. **Parent**, M.B., Henderson, Y.O., Victoria, N.C. & Murphy, A.Z., & (2013). Preemptive morphine analgesia prevents the impairing effects of neonatal inflammatory pain on adult hippocampal dependent memory and produces memory deficits in non-injured rats. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
21. **Parent**, M.B., Henderson, Y.O., & Vazdarjanova, A. (2014). Sparse encoding of a memory of a meal in the dorsal hippocampus as revealed with Arc expression. *Annual Meeting of the Society for Neuroscience*, Washington, DC.
22. Hannapel, R.C., & **Parent**, M.B. (2014). Ventral hippocampal neurons influence meal onset and meal frequency. *Annual Meeting of the Society for Neuroscience*, Washington, DC.
23. Hannapel, R.C., & **Parent**, M.B. (2015). Ventral hippocampal neurons influence meal onset and meal frequency. *XXXIIX Winter Conference on the Neurobiology of Learning and Memory*, Park City, Utah.
24. **Parent**, M.B., Henderson, Y.O., Nalloor, R, Vazdarjanova, A., & Murphy, A.Z. (2015). Sex-dependent effects of early life inflammatory pain on energy homeostasis in adult rats. *Annual Meeting of the Society for Neuroscience*, Chicago, IL.
25. Hannapel, R.C., & **Parent**, M.B. (2015). Pharmacological inhibition of ventral hippocampal NMDA receptors accelerates meal onset and increases meal frequency. *Annual Meeting of the Society for Neuroscience*, Chicago, IL.
26. Hannapel, R.C., Ramesh, J. & **Parent**, M.B. (2016). Time to eat: Post-meal optogenetic inhibition of hippocampal neurons promotes meal initiation. *Georgia State University Biotechnology Symposium: An interdisciplinary symposium to honor the life and memory of Professor Timothy J. Bartness*. Atlanta, GA.
27. Ross, A. P. & **Parent**, M.B. (2016). Sigggggggh Best me: Remembering the contributions of Tim Bartness to our memory research. *Georgia State University Biotechnology Symposium: An interdisciplinary symposium to honor the life and memory of Professor Timothy J. Bartness*. Atlanta, GA.
28. *Hannapel, R.H., **Ramesh, J., LaLumiere, R.T., & **Parent**, M.B. (2017). Post-meal optogenetic inhibition of dorsal or ventral hippocampal glutamatergic neurons promotes meal initiation and increases energy intake. *Annual Meeting of the Society for Neuroscience*, Washington, D.C.
29. **Barnett, N., Ross, A.P., **Faulkner, A.D., *Hannapel, R.C. and **Parent**, M.B. (2018). Increased sucrose experience prevents sucrose-induced increases in glutamate AMPA receptor phosphorylation in dorsal hippocampal neurons. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.

INSTRUCTION, INCLUDING ADVISING***TEACHING EXPERIENCE***

<u>ASSISTANT, ASSOCIATE, PROFESSOR</u> Neuroscience Institute & Department of Psychology	2000-present
<u>ASSISTANT PROFESSOR</u> Department of Psychology, University of Alberta	1996-2000
<u>LECTURER</u> Department of Psychology, University of Virginia	Summer 1995, 1996
<u>LABORATORY INSTRUCTOR</u> Department of Neurobiology and Behavior, University of California, Irvine	Winter 1990, 1991, 1992
<u>TEACHING ASSISTANT</u> Department of Neurobiology and Behavior, University of California, Irvine	Fall 1989 – Winter 1993

COURSES TAUGHT**UNDERGRADUATE LABORATORY COURSES**

BIO 105- Psychobiology Laboratory	Sp 1990, 1991, 1992
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UNDERGRADUATE LECTURE COURSES

PSYC 105- Introduction to Psychology	F 1996-1999
PSYC 1001- Introduction to Psychology as a Natural Science	F 2000, 2003, Sp 2002
PSYC 2050- Introduction to Drugs and Behavior (renamed Drugs, Behavior and Society); cross-listed with HONORS PSYC 2050	F 2001, 2003-2009; Sp 2003, 2008, 2010-11, Sum 2006
PSYC 2210- Introduction to Animal Behavior	Sum 1995, 1996
PSYC 371- Neurobiology of Learning and Memory	Sp 1997-2000
PSYC 3050- Principles and Methods of Psychological Investigation	Sp 2006; F 2008
NEUR 4200- Neuroscience of Memory cross-listed with HONORS NEUR 4200	Sp 2013, 2015, 2016, 2017, 2018 F 2013, 2015, 2016, 2017, 2018

GRADUATE LECTURE COURSES

NEUR 6050- Neuroscience of Memory	F 2015, 2017, 2018; Sp 2015, 2016, 2017, 2018
PSYC 8610/BIO 8060- Behavioral Neuroscience	Sp 2005, 2007, 2009
NEUR 8790- Topics in Neuroscience: Synaptic Plasticity	Sp 2015
PSYC 9999- Graduate Seminar in Neuroscience of Learning and Memory	F 2002

POSTDOCTORAL LECTURE COURSES

UGA- Continuing Education in Behavioral Neuroscience	F 2000; Sp 2001
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MENTORSHIP AND TRAINING***POSTDOCTORAL FELLOWS***

1. Sherri Briggs, Ph.D. 2019-
2. Amy Ross, Ph.D. 2013-2016
3. Elizabeth Board, M.D. 2000-2001

DOCTORAL STUDENTS- AWARDED

1. Reilly Hannapel, Ph.D. Neuroscience, awarded 2018
2. Yoko Ogawa, Ph.D. Neuroscience, awarded 2015
3. Amy Ross, Ph.D. Neuroscience, awarded 2012
4. Krista Wild, Ph.D. Psychology, awarded 2007
5. Desiree Krebs-Kraft, Ph.D. Psychology, awarded 2006
6. Jane B. Gore, Ph.D. Psychology, awarded 2002

MASTERS STUDENTS- CURRENT

1. Sreinick Keo, 2018 – present
2. Hana Obeidat, 2018 – present
3. Janavi Ramesh, 2018 – present

MASTERS STUDENTS- AWARDED

1. Reilly Hannapel, M.S. Neuroscience, awarded 2018
2. Emily Bruggeman, M.S. Neuroscience, awarded 2011
3. Yoko Ogawa, M.S. Neuroscience, awarded 2011
4. Amy Ross, M.A. Psychology, awarded 2008
5. Ramata Cisse, M.Sc. Biology, awarded 2006
6. Desiree Krebs, M.A. Psychology, awarded 2003
7. Aldemar Degroot, M.Sc. Neuroscience, awarded 2000
8. Hugo Lehmann, M.Sc. Psychology, awarded 2000

HONORS THESIS-AWARDED

1. Joseph Kumpula, Honors Psychology B.Sc., awarded 2001
2. Treena Blake, Honors Psychology B.Sc., awarded 1999

MENTORING OF HIGH SCHOOL TEACHER- INSTITUTE FOR NEUROSCIENCE (ION)

Matthew Unwin, Decatur High School Biology teacher, Summer 2017

UNDERGRADUATE & POST-BACCALAUREATE STUDENTS MENTORED

Students mentored since 2004

(*female; #under-represented minority)

BIOL 4910- UNDERGRADUATE RESEARCH IN BIOLOGY

*#Yasmine Blanch, Fall 2011

*#Eseosaserea Igbinigie, Fall 2011

BRAINS AND BEHAVIOR (B&B) UNDERGRADUATE SUMMER RESEARCH FELLOWSHIP (includes extensive professional development training)

- *#Jenine Ampudia, Summer 2010
- *#Yasmine Blanch, Summer 2011, Summer 2012
- *Caitlin Henne, Summer 2013
- *#Lluvia Frias, Summer 2014
- *Alexa Faulkner, Summer 2015
- *#Nicolette Barnett, Summer 2016
- *Janavi Ramesh, Summer 2017

THE INITIATIVE FOR MAXIMIZING STUDENT DEVELOPMENT (IMSD)

- *#Nicolette Barnett, Summer 2017-Fall 2018

MBRS-RESEARCH INITIATIVE FOR SCIENTIFIC ENHANCEMENT PROGRAM (RISE)

- *#Aquila Jiminez, Summer 2011

MOLECULAR BASIS OF DISEASE (MBD) UNDERGRADUATE SUMMER RESEARCH FELLOWSHIP (includes extensive professional development training)

- Karan Sharma, Summer 2018

NATIONAL SCIENCE FOUNDATION RESEARCH EXPERIENCE FOR UNDERGRADUATE (REU) STUDENTS

- *#Sandra Chumba, Summer 2012
- *Caitlin Henne, Summer 2012
- *Kylie O'Laughlin, Fall 2015, Summer 2016
- *#Nicolette Barnett, Spring 2016, Fall 2016

NATIONAL SCIENCE FOUNDATION CENTER FOR BEHAVIORAL NEUROSCIENCE FOREBRAIN SUMMER RESEARCH PROGRAM FOR UNDERGRADUATE STUDENTS

- *Marina Campbell, Summer 2004
- *Mahsa Hashemi, Summer 2005
- *#Mariana Silva, Summer 2006
- *Megan Krench, Summer 2007
- *Amanda Koire, Summer 2008
- *Estella Yee, Summer 2009
- *Lauryn Friedie, Summer 2010
- Surya Pandey, Summer 2011
- *#Jasmine Gentry, Summer 2012

NEUROSCIENCE EDUCATION AND TRAINING PROGRAM (NET/WORK)

- *#Jasmine Gentry, Spring 2013, Summer 2013, Fall 2013, Spring 2014

NEUR 4980- UNDERGRADUATE NEUROSCIENCE RESEARCH

- *Janavi Ramesh, Spring 2018

PHYS 4900- PHYSICS PRACTICUM

Tyler Thompson, Fall 2014

PSYC 4760- RESEARCH PRACTICUM IN PSYCHOLOGY

*Marina Campbell, Fall 2003, Fall 2004

Aaron Etherington, Spring 2005

*Beth Bagley, Fall 2008

Andrew Brown, Fall 2014

Gregory Sutton, Summer 2009

*Claire Galloway, Spring 2011

Yaar Golamhosseini , FALL 2014

Richard Austin Filitor, Spring 2011

*Nivedita Nagar, Fall 2011

*#Ashley Watson, Fall 2011

*Casey Reynolds, Summer 2012

Connor Erickson, Fall 2012

*Lauren Schmuck, Fall 2012

RONALD E MCNAIR SCHOLAR PROGRAM

*#Amanda Pollet, Summer 2005

*#Aja Muldrow, Summer 2007

*Kayla Brookshire, Summer 2010

#Daniel Milan, Summer 2011

*#Ashley Watson, Summer 2011, Summer 2012

UNIVERSITY SCHOLARS PROGRAM

*#Jenine Ampudia, University Scholar (Biology major), Fall 2009, Summer 2011, Fall 2011

*Kayla Brookshire, Netzel Scholar, (Biology major) Fall 2009, Fall 2010

*Sonum Patel, University Scholar (Nursing major), Fall 2009, Spring 2010

*#Sandra Chumba, Honors College University Assistantship Program, Fall 2011, Spring 2012

*#Yasmine Blanch, University Assistantship, Fall 2012

*Alexa Faulkner, Fall 2014, Spring 2015

*Caitlin Henne, Presidential Scholar, (Biology and Neuroscience major), Fall 2012

*Paola Berrios, Honors University Assistantship Program (Neuroscience major), Fall 2017

*Janavi Ramesh, Honors University Assistantship Program (Neuroscience major), Fall 2015-Fall 2017

*#Nicolette Barnett, Honors University Assistantship Program (Neuroscience major), Spring 2017-Fall 2018

*#Adaugo Okpareke, Honors University Assistantship Program (Neuroscience major), Fall 2018-

Karan Sharma, Honors University Assistantship Program (Neuroscience major), Fall 2018-

Kathryn Whitley, Spring 2019-

FOREIGN INTERNSHIP SPONSOR

Rodrigo Tsovernos, Medical student, Universidade Federale do Rio Grande do Sul, Porto Alegre, Brazil (2/16-4/16)

RESEARCH VOLUNTEERS

*Jenine Ampudia, Biology major, Spring 2010, Fall 2010
 *Beth Bagley, Psychology major, Spring 2008, Summer 2008
 *Lalita Balikrishnan, Exercise Science major, Fall 2010, Spring 2011, Fall 2011, Spring 2012
 *#Nicolette Barnett, Neuroscience major, Fall 2015, Spring 2015
 *Nisha Bhat, Ethics & Global Health major Princeton University, Summer 2014, Fall 2014
 *#Yasmine Blanch, Biology major, Fall 2010, Spring 2011
 Andrew Brown, Psychology major, Summer 2014
 *Marina Campbell, Psychology major, Spring 2003, Summer 2003, Spring 2004, Spring 2005
 Matthew Craddock, Biology masters student, Fall 2015
 Aaron Etherington, Psychology major, Summer 2004, Fall 2004, Spring 2005, Summer 2005, Fall 2005
 Steven Charles Davis, Georgia State Perimeter College Biology Associate, Fall 2018-
 *Erika Erikson, Psychology major, Spring 2003, Fall 2003, Spring 2004
 Connor Erickson, Psychology major, Summer 2012, Fall 2013
 *#Lluvia Frias, Neuroscience major, Fall 2013, Spring 2014
 Richard-Austin Filitor, Psychology major, Spring 2010, Fall 2010, Summer 2011
 *Claire Galloway, Psychology major, Fall 2010
 *#Jasmine Gentry, Psychology major, Fall 2012
 *Courtney Gifford, Psychology major, Spring 2010, Summer 2010, Fall 2010, Spring 2011
 Yaar Golamhosseini, Psychology major, Spring 2015
 Sepeher Goshayeshi, Neuroscience major, Summer 2014, Fall 2014
 *Caitlin Henne, Biology and Neuroscience major, Fall 2011, Spring 2012
 Anthony Iacono, Psychology major, Spring 2009, Summer 2009
 *#Eseosaserea Igbini, Biology major, Spring 2011, Spring 2012
 *#Adebimpe Kasumu, Biology major, Spring 2009, Summer 2009
 *Andrea Kim, Psychology major, Fall 2004
 *Jina A (Geena) Kim, Biology major, Fall 2011, Spring 2012
 *Kathryn Martin, Neuroscience and Psychology major, Lawrence University, WI, Summer 2015
 *Saima Masud, Psychology major, Spring 2012
 Taylor Montgomery, Neuroscience major, Fall 2016, Spring 2017, Summer 2017, Fall 2017
 Christopher Mylenbusch, Finance major, Spring 2009, Summer 2009, Fall 2009, Spring 2010, Fall 2010
 *Nivedita Nagar, Psychology major, Summer 2011, Spring 2012, Summer 2012, Fall 2012, Spring 2013, Summer 2013, Fall 2013
 *Hana Obeidat, Neuroscience major, Spring 2018
 *Kylie O’Laughlin, Neuroscience major, Fall 2015, Spring, 2015, Summer 2015
 Kajal Patel, Psychology major, Summer 2004
 *Syeda Saeed, Post-baccalaureate, Fall 2016, Spring 2017, Summer 2017
 *Lauren Schmuck, Psychology major, Summer 2012, Spring 2013
 Karan Sharma, Spring 2018
 Kevin Sutter, Post-baccalaureate volunteer, Fall 2015,
 Gregory Sutton, Psychology major, Spring 2009
 *Kelli Tipton, Post-baccalaureate volunteer, Fall 2014
 *Casey Reynolds, Psychology major, Fall 2011, Spring 2012, Summer 2012, Fall 2012
 Walid Radwan, Biology major, Fall 2007
 *Karla Vanderley, Biology major, Fall 2011

Nathan Waldron, Psychology major, Spring 2006

*Claire Watkins, Psychology major, Fall 2011, Spring 2012, Summer 2012

*Katherine Weaver, Psychology major, Fall 2004

*Jihee Yeh, Biology Masters program, Summer 2014

Thomas Brett Young, Psychology major, Spring 2009, Fall 2009

UNDERGRADUATE JOURNAL

1. Watson, A.E.N., Bruggeman, E.C. & Parent, M.B. (2012). Wearing memory thin: The effects of high fat diet on inflammation and memory. *Discovery: 1*, pp. 39-47.

UNDERGRADUATE RESEARCH PRESENTATIONS

1. Silva, M.M., Ross, A.P., Bartness, T.J., & **Parent, M.B.** (2006). The effects of a high fructose diet on body mass, fat pad distribution, body lipids, and blood plasma measurements. Poster presented at the *Behavioral Research Advancements in Neuroscience (BRAIN) Summer Symposium*, Emory University.
2. Krench, M., Ross, A., & **Parent, M.** (2007). Sustaining live hippocampal tissue in artificial cerebral spinal fluid as indicated by the reduction of 2,3,5-triphenyl tetrazolium chloride to formazan. Poster presented at the *Behavioral Research Advancements in Neuroscience (BRAIN) Summer Symposium*, Emory University.
3. Muldrow, A.D., Ross, A.P., & **Parent, M.B.** (2007). The effects of a high fructose diet on body functioning. Poster presented at the *Ronald E. McNair Summer Research Poster Session*, Georgia State University.
4. Bagley, B.J., Ross, A.P., Kimmons, J., Blanck, H.M., & **Parent, M.B.** (2008). Effects of feeding adolescent rats a high fructose diet on learning and memory. Poster presented at the *Psychology Undergraduate Research Conference (PURC)*, Georgia State University. **Best Neuroscience Poster Award**
5. Koire, A.M., Ross, A.P., & **Parent, M.B.** (2008). High fructose diet may affect hippocampal-dependent memory in juvenile rats. Poster presented at the *Behavioral Research Advancements in Neuroscience (BRAIN) Summer Symposium*, Emory University.
6. Lee, A., Pettigrew, K., Avino, A., Li, C., Doherty, J., Williams, B., Ross, A., Bruggeman, E., **Parent, M.**, Frantz, K. (2008). Amphetamine self-administration by female rats on a high fructose diet. *Clark Atlanta University Poster Day*. **Poster Award**
7. Yee, E.F., Ross, A.P., & **Parent, M.B.** (2009). Insulin resistance in adolescent fructose-fed rats. Poster presented at the *Behavioral Research Advancements in Neuroscience (BRAIN) Summer Symposium*, Emory University.
8. Young, T.B., Ross, A.P., Kimmons, J., Blanck, H.M., & **Parent, M.B.** (2009). The effect of high fructose consumption beginning in adolescence on adult hippocampal-dependent memory. Poster presented at the *Psychology Undergraduate Research Conference (PURC)*, Georgia State University. **Best Neuroscience Poster Award**
9. Ampudia, J.A., Ogawa, Y., & **Parent, M.B.** (2010). The effects of aging in female rats on inter-meal intervals. Poster presented at the *Louis Stokes Alliances for Minority Participation Conference*, Atlanta, GA.
10. Fridie, L.C., Ogawa, Y., & **Parent, M.B.** (2010). Eating a meal increases ARC mRNA expression in hippocampal neurons. Poster presented at the *Behavioral Research Advancements in Neuroscience (BRAIN) Summer Symposium*, Emory University.

11. Galloway, C.R., Ogawa, Y., & Parent, M.B. (2010). The role of the hippocampus in influencing meal onset. Poster presented at the *Psychology Undergraduate Research Conference (PURC)*, Georgia State University.
12. Balakrishnan, L.J., Ross, A.P., & Parent, M.P. (2011). Western Diet + Stress = Memory Impairment, Poster presented at *Psychology Undergraduate Research Conference (PURC)*, Georgia State University. **Outstanding Poster Presentation: 3rd place**
13. Galloway, C.R., Ogawa, Y., & Parent, M.B. (2011). The hippocampus regulates meal timing. Poster presented at the *Georgia Undergraduate Research in Psychology Conference (GURP)*, Kennesaw, GA. **Outstanding Poster Presentation: 1st place**
14. Galloway, C.R., Ogawa, Y., & Parent, M.B. (2011). The hippocampus regulates meal timing. Poster presented at the *Colonial Academic Alliance Undergraduate Research Conference*, Hempstead, NY.
15. Filitor R.W.A, Galloway, C.R., Ogawa, Y., & Parent, M.B. (2011). Neonatal injury may impair hippocampal-dependent memory in middle-aged rats. Poster presented at the *Georgia Undergraduate Research in Psychology Conference (GURP)*, Kennesaw, GA.
16. Galloway, C.R., Ogawa, Y., & Parent, M.B. (2011). The hippocampus regulates meal timing. Poster presented at the *Georgia State Undergraduate Research Conference (GSURC)*, Georgia State University.
17. Jimenez, A.N., Ogawa, Y., & Parent, M.B. (2011). Eating a meal increases *Arc* mRNA expressions in the dorsal hippocampus of Sprague-Dawley rats. Poster presented at the *MBRS-RISE 2011 Summer Research Presentations*, Atlanta, GA.
18. Milan, D.F., Darling, J.N., & Parent, M.B. (2011). Establishing Golgi stain protocol to visualize hippocampal neuron morphology in male rats. Poster presented at the *Ronald E. McNair Summer Research Poster Session*, Georgia State University.
19. Pandey, S., Darling, J.N., & Parent, M.B. (2011). From the cafeteria to memory deficits: Association between hepatic lipids and spatial memory deficits. Poster presented at the *Behavioral Research Advancements in Neuroscience (BRAIN) Summer Symposium*, Georgia State University.
20. Watson, A. E. N., Bruggeman, E. C., Parent, M. B. (2011). Wearing memory thin: High fat diet, neuroinflammation, and memory. Oral presentation given at the *Ronald E. McNair Post-baccalaureate Achievement Program Poster Day*, Georgia State University. **Third place award**
21. Gentry, J.N., Darling, J.N., Bruggeman, E.C., & Parent, M.B. (2012). The effects of a high energy diet and oxidative stress in male rats. Poster presented at the *Behavioral Research Advancements in Neuroscience (BRAIN) Summer Symposium*, 2012.
22. Watson, A. E. N., Bruggeman, E. C., Parent, M. B. (2012) High fat feeding, neuroinflammation and memory. Poster presented at the *Georgia State Undergraduate Research Conference (GSURC)*.
23. Watson, A. E. N., Bruggeman, E. C., Parent, M. B. (2012). High fat feeding, neuroinflammation and memory. Oral presentation given at the 18th Annual SAEOPP McNair/SSS Research Conference. **First place award for Life Sciences Oral Presentation**
24. Watson, A. E. N., Bruggeman, E. C., Parent, M. B. (2012). High fat feeding, neuroinflammation and memory. Oral presentation given at the *Colonial Academic Alliance Undergraduate Research Conference*, Old Dominion, VA.

25. Nagar, N., Ogawa, Y., Victoria, N., Murphy, A.Z., & Parent, M.B. (2013). Neonatal pain and inflammation impairs hippocampal-dependent memory in middle-aged rats. Poster presented at the *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
26. Schmuck, L.M., Ogawa, Y., Victoria, N., Murphy, A.Z., & Parent, M.B. (2013). Neonatal pain accelerates meal onset and increases body mass in adult female rats with poor spatial memory. Poster presented at the *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
27. Gentry, J.N., Darling, J.N. & Parent, M.B. (2013). The effects of blocking hippocampal acetylcholine on meal onset. *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
28. Gentry, J.N., Darling, J.N. & Parent, M.B. (2013). The effects of blocking hippocampal acetylcholine on meal onset. Poster presented at the *12th Annual Georgia Undergraduate Research in Psychology Conference (GURP)*, Kennesaw State University, Kennesaw, GA. **Outstanding Poster Presentation: 2nd place**
29. Gentry, J.N., Henderson, Y.O. & Parent, M.B. (2013). Interrelated effects of neonatal injury on meal intake and hippocampal-dependent memory. *SAEOPP McNair/SSS Scholars Research Conference*, Atlanta, GA. **1st place Life Sciences Oral Presentation**
30. Gentry, J.N., Henderson, Y.O. & Parent, M.B. (2013). Interrelated effects of neonatal injury on meal intake and hippocampal-dependent memory *BRAIN/B&B/SEED Research Symposium*, Atlanta, GA..
31. Henne, C.C., Darling, J.N., & Parent, M.B. (2013). The effects of hippocampal infusions of the muscarinic antagonist scopolamine on meal onset in male rats. *BRAIN/B&B/SEED Research Symposium*, Atlanta, GA.
32. Gentry, J., Darling, J.N. & Parent, M.B. (2013). Blocking hippocampal acetylcholine receptors may accelerate meal onset in male rats. *Annual Meeting of the Society for Neuroscience*, San Diego, CA. **Supported in part by a travel award from the Faculty for Undergraduate Education/Nu Rho Psi National Neuroscience Honor Society**
33. Gholamhosseini, Y.J., Hannapel, R.C., & Parent, M.B. (2015). Validation of optogenetic inhibition of rat hippocampal glutamatergic neurons. *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
34. Faulkner, A.D., Ross, A.P., & Parent, M.B. (2015). Establishing a synaptoneurosome preparation to investigate memory formation of a meal. *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
35. Faulkner, A.D., Ross, A.P., & Parent, M.B. (2015). Does eating induce long-term potentiation? *Georgia State University Brains & Behavior Scholar Poster Session*, Atlanta, GA.
36. Barnett, N. Ross, A.P., & Parent, M.B. (2016). Do you form a memory of a meal? *Georgia State University Brains & Behavior Scholar and Initiative for Maximizing Student Development Undergraduate Summer Symposium*, Atlanta, GA.
37. Barnett, N. Ross, A.P., & Parent, M.B. (2016). Do you form a memory of a meal? 4th Annual *Black Doctoral Network Conference*, Atlanta, GA.
38. Barnett, N. Ross, A.P., & Parent, M.B. (2016). Do you form a memory of a meal? *Georgia State University Undergraduate STEM Conference*, Atlanta, GA.

39. Ramesh, J., Hannapel, R.C., & **Parent**, M.B. (2016). When to eat: Optogenetic manipulation of hippocampal neurons promotes eating. *Annual Southeast Regional Georgia Undergraduate Research Conference (GURC)*, Milledgeville, GA.
40. Barnett, N. Ross, A.P., & **Parent**, M.B. (2017). Does sucrose ingestion activate hippocampal proteins associated with synaptic plasticity? *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
41. Ramesh, J., Hannapel, R.C., & **Parent**, M.B. (2017). Does optogenetic inhibition of hippocampal neurons increase the intake of a non-caloric sweetener? *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
42. Ramesh, J., Hannapel, R.C., & **Parent**, M.B. (2017). Does optogenetic inhibition of hippocampal neurons increase the intake of a non-caloric sweetener? *16th Annual Georgia Undergraduate Research in Psychology Conference (GURP)*, Kennesaw, GA.
43. Ramesh, J., Hannapel, R.C., & **Parent**, M.B. (2017). Does optogenetic inhibition of hippocampal neurons increase the intake of a non-caloric sweetener? *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
44. Barnett, N. Ross, A.P., & **Parent**, M.B. (2017). Consuming sucrose may induce long-term potentiation to form a memory of a meal. *Brains and Behavior and The Initiative for Maximizing Student Development Summer Symposium*, Atlanta, GA.
45. Ramesh, J., Hannapel, R.C., & **Parent**, M.B. (2017). Optogenetic inhibition of hippocampal neurons increases intake of a non-caloric sweetener. *Brains and Behavior and The Initiative for Maximizing Student Development Summer Symposium*, Atlanta, GA.
46. Unwin, M., Hannapel, R.H., & **Parent**, M.B. 2017. Sucrose-induced postprandial hippocampal expression of neurotrophin-4 protein. *Institute on Neuroscience (ION) Research Symposium*. Atlanta, GA. **Matthew Unwin was a high school biology teacher.**
47. Ramesh, J., Hannapel, R.C., & **Parent**, M.B. (2017). Optogenetic inhibition of hippocampal neurons increases intake of a non-caloric sweetener. *Georgia State University Undergraduate STEM Conference*, Atlanta, GA.
48. Barnett, N. Ross, A.P., & **Parent**, M.B. (2017). Ingestion increases the phosphorylation of a hippocampal protein important for cellular changes associated with memory. *4th Annual meeting of the Atlanta Undergraduate Conference on Health and Society*, Decatur, GA.
49. Ramesh, J., Hannapel, R.C., & **Parent**, M.B. (2017). Optogenetic inhibition of hippocampal neurons increases intake of a non-caloric sweetener. *4th Annual meeting of the Atlanta Undergraduate Conference on Health and Society*, Decatur, GA. **Oral presentation.**
50. ****Obeidat, H., *Hannapel, R & Parent, M.B.** (2018). Visualization of hippocampal turbo green fluorescent protein. *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
51. ****Montgomery, T, *Hannapel, R & Parent, M.B.** (2018). Visualizing adeno-associated virus distribution to identify hippocampal glutamatergic projections. *Georgia State University Undergraduate Research Conference*, Atlanta, GA.
52. ****Barnett, N., Ross, A.P., & Parent M.B.** (2018). Consuming sucrose may induce long-term potentiation. *Georgia State University Brains and Behavior, IMSD, and CASA Poster Session.*

53. **Sharma, K., *Keo, S, *Obeidat, H., & **Parent M.B.** (2018). The impact of obesity on ingestion-induced hippocampal *Arc* expression in male rats. *Molecular Basis of Disease Summer Symposium*, Georgia Gwinnett College.
54. **Sharma, K., *Keo, S, *Obeidat, H., & **Parent M.B.** (2018). The impact of obesity on sucrose ingestion-induced hippocampal *Arc* expression in male rats. *Herty Medal Undergraduate Research (HUMR) Symposium*, Georgia Gwinnett College.
55. **Sharma, K., *Keo, S, *Obeidat, H., & **Parent M.B.** (2018). The impact of obesity on sucrose ingestion-induced hippocampal *Arc* expression in male rats. *5th Annual Southeast Georgia Undergraduate Research Conference (GURC)*, University of North Georgia, Gainesville, GA.
56. **Barnett, N., Ross, A.P., **Faulkner, A.D., *Hannapel, R.C. and **Parent, M.B.** (2018). Increased sucrose experience prevents sucrose-induced increases in glutamate AMPA receptor phosphorylation in dorsal hippocampal neurons. *Faculty for Undergraduate Neuroscience Poster Session, Annual Meeting of the Society for Neuroscience, San Diego, CA. Supported in part by a travel award from the Faculty for Undergraduate Education/Nu Rho Psi National Neuroscience Honor Society and the GSU Honors College.*
57. **Sharma, K., *Keo, S., *Obeidat, H., **Barnett, N. & **Parent, M.B.** (2019). The impact of obesity on ingestion-induced hippocampal *Arc* expression in male rats. *Curtis L. Parker Student Research Symposium*, Morehouse School of Medicine, Atlanta, GA.
58. **Sharma, K., *Keo, S., *Obeidat, H., **Barnett, N. & **Parent, M.B.** (2019). The impact of obesity on ingestion induced hippocampal *Arc* expression in male rats. Poster presented at *the Louis Stokes Alliance for Minority Participation (LSAMP) Annual Symposium*, Clark Atlanta University, Atlanta, GA. **2nd place award.**

DETAILED SERVICE

DEPARTMENT

Associate Director, Georgia State University Neuroscience Institute (2017-
Chair, Promotion and Tenure Committee, Georgia State University Neuroscience Institute (2017-
Ex officio Member, Executive Committee, Georgia State University Neuroscience Institute (2017-
Ex officio Member, Graduate Program Committee, Georgia State University Neuroscience Institute (2017-
Ex officio Member, Undergraduate Program Committee, Georgia State University Neuroscience Institute (2017-
Faculty mentor, Jordan Hamm, Assistant Professor, Georgia State University Neuroscience Institute (2018-
Chair, Bylaw Review Committee, Georgia State University Neuroscience Institute (summer 2018-
Member, Lecturer Search Committee, Georgia State University Neuroscience Institute (2019)
Chair, Lecturer Search Committee, Georgia State University Neuroscience Institute (2017)
Member, Promotion and Tenure Committee, Georgia State University Neuroscience Institute (2008-2016)
Member, Executive Committee, Georgia State University Neuroscience Institute (2016)

Chair, Bylaw Review Committee, Georgia State University Neuroscience Institute (2014-2016)

Chair, Tenure-Track Faculty Search Committee, Georgia State University Neuroscience Institute (2015)

Founding Director of Graduate Studies, Georgia State University Neuroscience Institute (2008 – 2011)

Chair, Georgia State University Neuroscience Institute Graduate Program Committee (2008 – 2011)

Ex officio Member, Georgia State University Neuroscience Institute Undergraduate Neuroscience Degree Planning Committee (2008 – 2011)

Faculty advisor, Georgia State University Neuroscience Institute Breakfast Lecture (NIBL; 2008 – 2011)

Director of Graduate Studies, Georgia State University Dept. of Psychology (2007 – 2008)

Member, Clinical Faculty Search Committee, Georgia State University Dept. of Psychology (2006 – 2007)

Chair, Neuropsychology and Behavioral Neuroscience Program, Georgia State University Dept. of Psychology (2003 – 2006)

Member, Graduate Program Committee, Georgia State University Dept. of Psychology (2003 – 2006)

Member, Graduate Admissions, Neuropsychology and Behavioral Neuroscience, Georgia State University Department of Psychology, (2001 – 2006)

Member, Promotion and tenure committee, Georgia State University Dept. of Psychology (2004 – 2009)

Member, Community Psychology Search Committee, Georgia State University Dept. of Psychology (2004 – 2005)

Member, Clinical Neuropsychology Search Committee, Georgia State University College of Arts and Sciences (2003)

Member, Executive Committee, Georgia State University Dept. of Psychology (2001-2003)

Member, Lecturer Search Committee, Georgia State University Dept. of Psychology (2002)

Member, Behavioral Neuroscience Search Committee, Georgia State University Dept. of Psychology (2000-2002)

Member, Brain and Behavior Search Committee, University of Alberta Dept. of Psychology (1998 – 2000)

Member, Graduate Committee, University of Alberta Division of Neuroscience (1998 – 2000)

Member, Graduate Admissions, University of Alberta Dept. of Psychology (1997 – 2000)

Member, Graduate recruitment, University of Alberta Dept. of Psychology (1997 – 1998)

COLLEGE/UNIVERSITY/LOCAL

Participant, College of Arts and Sciences Mentoring and Advising Pilot Program, Georgia State University (fall 2018)

Member, Department of Psychology lecturer search committee, Georgia State University (fall 2018)

Member, Georgia State University Brains and Behavior Seed Grant Review Panel (2018)

Faculty Associate for Undergraduate Research and Theses, Honors College, Georgia State University (2016-present)

Member, Georgia State University Undergraduate Research Conference (GSURC) Advisory Board (2012 – 2018)

Member, Georgia State University Undergraduate Research Conference (GSURC) Faculty Award for Undergraduate Research Selection Committee (2015)

Chair, Georgia State University Undergraduate Research Conference (GSURC) Faculty Award for Undergraduate Research Selection Committee (2014)

Member, Georgia State University Institutional Animal Care and Use Committee (2000-2006; 2012 – 2014)

Member, joint Georgia State University – Georgia Institute of Technology Institutional Review Board (2009 – 2011)

Council Member, Atlanta Chapter of the Society for Neuroscience (2008 – 2011)

Member, Committee on Graduate Studies, Georgia State University College of Arts and Sciences (2007 – 2011)

Member, Animal Resource Committee, Georgia State University (2006 – 2011)

Member, Brains and Behaviors Scientific Graduate Fellow Committee, Georgia State University (2004 – 2008)

Co-Leader, Adaptability and Social Behavior Group, Georgia State University Brains and Behaviors Program (2005 – 2008).

Member, Brains and Behaviors Scientific Advisory Committee, Georgia State University (2004 – 2008)

Member, Behavioral Neuroscience Search Committee, Georgia State University College of Arts and Sciences (2007 – 2008)

Vice-chair, Georgia State University Institutional Animal Care and Use Committee (2003 – 2005)

Leader, Adaptability and Behavior Group, Brains and Behaviors Program, Georgia State University (2004 – 2005)

Member, Center for Behavioral Neuroscience Co-Director for Research Search Committee (2003 – 2004)

Member, Neuroscience Graduate Group Executive Committee, Georgia State University College of Arts and Sciences (2002 – 2003)

NATIONAL and INTERNATIONAL

Member, Society for Neuroscience International Travel Awards Selection Committee (2019-2020)

Member, Society for Neuroscience Trainee Professional Development Awards Selection Committee (2018-2020)

Program Director, Biology Directorate, Division of Integrative Organismal Biology, National Science Foundation, Arlington, VA (2011 – 2012)

External Site Reviewer, Science of Learning Centers, Social, Behavioral and Economic Sciences (SBE) Directorate, National Science Foundation, San Diego, CA (2013)

Co-technical coordinator, Temporal Dynamics of Learning Science of Learning Center Management Team, National Science Foundation, Arlington, VA (2011 – 2012)

Grant Panelist, Neural Systems Cluster, Biology (BIO) Directorate, National Science Foundation, Arlington, VA (2010)

EDITORIAL BOARDS

Review Editor and Editorial Board Member, *Frontiers in Behavioral Neuroscience* (2017-

INVITED REVIEWER FOR JOURNALS, BOOKS, AND GRANTS (in alphabetical order)

Acta Neurologica Scandinavica, Alzheimer's Association, Appetite, Behavioral Neuroscience, Behavioural Brain Research, Biochimica et Biophysica Acta- Molecular Basis of Disease, Biological Psychology, Brain Research, Brain Research Bulletin, Canadian Institutes of Health Research, Consciousness and Cognition, European Journal of Pharmacology, European Journal of Neuroscience, European Neuropsychopharmacology, Food and Chemical Toxicology, Frontier in Aging Neuroscience, Genes Brain and Behavior, Hippocampus, International Journal of Food Sciences and Nutrition, International Journal of Obesity, Journal of Alzheimer's Disease, Journal of Nutritional Biochemistry, Journal of Neuroscience, Journal of Psychiatry and Neuroscience, Life Sciences, Molecular Basis of Disease, National Science Foundation, Neuroscience and Biobehavioral Reviews, Neuropsychopharmacology, Neuroscience, Neuroscience Letters, Neuroscience Research, Nutritional Neuroscience, Obesity, Pain, Pearson Publishers, Pharmacological Research, Pharmacology, Biochemistry, and Behavior, Phillip Morris, Physiology & Behavior, PLoS ONE, Proceedings of the National Academy of Sciences, Progress in Neuro-Psychopharmacology & Biological Psychiatry, Psychobiology, Psychological Science, Psychopharmacology, Psychoneuroendocrinology, Regulatory Peptides, Sinauer Associates, The Natural Sciences and Engineering Research Council of Canada, The Neurobiology of Learning and Memory, Wadsworth Publishers