20 April 2021

CURRICULUM VITAE

BARBARA A. SORG

Chair, R.S. Dow Neurobiology
Legacy Research Institute
1225 NE 2nd Avenue
Portland, OR 97232
PH: 503-413-1934
bsorg@downeurobiology.org

Education:

B.S.	1981	Ball State University, Muncie, Indiana (Biology)
Ph.D.	1987	University of Maryland, College Park, Maryland (Biochemistry)

Professional Experience:

1981-1985	Research Assistant and Teaching Assistant: Department of Chemistry and Biochemistry, University of Maryland, College Park, MD
1985-1987	Research Assistant: Neuropsychiatric Institute, University of California at Los Angeles, Los Angeles, CA
1987-1988	Postdoctoral Fellow: Program in Genetics and Cell Biology, Washington State University (WSU), Pullman, WA
1988-1990	Research Associate: Department of Psychology, WSU, Pullman, WA
1990-1998	Research Assistant Professor: Department of Veterinary and Comparative Anatomy, Pharmacology and Physiology (VCAPP), WSU, Pullman, WA
1998-1999	Assistant Professor, Tenure-Track: Department of VCAPP, WSU, Pullman, WA
1999-2004	Associate Professor: Department of VCAPP, WSU, Pullman, WA
1999-2003	Interim Associate Director and Interim Director, WSU Alcohol and Drug Abuse Program, Pullman, WA
2003-2014	Director, WSU Alcohol and Drug Abuse Program, Pullman, WA
2004-2019	Professor, Department of VCAPP (currently Integrative Physiology and Neuroscience; IPN), WSU, Pullman, WA
2011-2019	Co-Director, WSU Translational Addiction Research Center (TARC)
2018-2019	Adjunct faculty, Legacy Research Institute, Portland, OR
2019-present	Chair, Dow Neurobiology, Legacy Research Institute, Portland, OR

2019-present Adjunct professor, IPN, WSU

2019-present Adjunct professor, Department of Chemical Physiology and Biochemistry; and Department of Behavioral Neuroscience, Oregon Health & Science University, Portland, OR

Research Grants:

Funded- Extramural

DATE			AMOUNT (TOTAL DIRECT)
08/92-08/94	(PI)	*Molecular Mechanisms of Cocaine Sensitization*. NIH NIDA (Grant RO3 DA 07827).	$ 97,122
06/93-06/98	(PI)	*Stress and Role of Prefrontal Cortex in Sensitization*. NIH NIDA (Grant R29 DA 08212).	$ 343,312
01/95-01/96	(PI)	*Development of an Animal Model for Multiple Chemical Sensitivity*. Wallace Genetic Foundation.	$ 46,930
01/96-01/97	(PI)	*Role of Stress and the Amygdala in an Animal Model for Multiple Chemical Sensitivity*. Wallace Genetic Foundation.	$ 39,250
09/98-08/01	(PI)	*Role of Stress in Animal Model for Chemical Intolerance* NIH NIEHS (Grant R01 ES09135)	$ 340,971
02/99-01/03	(PI)	*Cortical Regulation of Sensitization.* NIH NIDA (Grant R01 DA 11787)	$ 481,938
07/99-6/00	(PI)	*Effects of Repeated Formaldehyde on Sleep* Environmental Sensitivities Research Institute	$ 9,840
Conference Grant	(PI)	*Role of Neural Plasticity in Chemical Intolerance* NIH NIEHS (R13)	$ 10,000
Conference Grant	(PI)	*Role of Neural Plasticity in Chemical Intolerance* (for 2000) Wallace Research Foundation	$ 35,000
04/01-1/03	(PI)	Supplemental to: *Cortical Regulation of Sensitization* for Christopher Sanchez, M.S. student NIH NIDA Research supplement for underrepresented Minorities	$ 49,370
10/01-9/03	(PI)	*Cocaine and Extracellular Matrix* NIH NIDA (Grant R21 DA 14915)	$ 200,000
08/02-07/07	(PI)	*Animal Model for Chemical Intolerance* NIH NIEHS (R01 ES 09135 renewal)	$ 750,000

08/06-07/08 (PI) *Cocaine, Electroconvulsive Seizure and Neural Plasticity*
NIH NIEHS (R21 DA020125) $ 401,360 (direct + ICR)

09/07-08/12 (Co-I—Heiko Jansen, WSU, PI)
Circadian modulation of drug-seeking behavior
NIH NIDA (1R01DA023202) $1,659,715 (direct + ICR)

08/11-09/13 (PI) *Matrix metalloproteinases and cocaine*
NIH NIDA (R21DA030647) $ 275,000

06/12-05/17 (PI) *Extracellular matrix, cocaine, and memory*
NIH NIDA (R01DA033404-01) $1,000,000

04/16-03/21 (PI) (Co-PI Travis Brown, University Wyoming)
Perineuronal nets and cocaine-associated memories
NIH NIDA (R01 DA040965-01A1) $1,976,843 (direct + ICR)

04/18-06/23 (Co-I) (PI Jonathan Wisor, WSU Spokane)
Sleep deprivation elevates, and sleep alleviates, oxidative stress in the brain
NIH NINDS (R01 NS078498-05) $1,883,160 (direct + ICR)

07/19-06/21 (PI) *Identifying prefrontal cortex neural ensembles in cocaine-associated memories*
NIH R21 (DA047121) Cutting Edge Basic Research Award (CEBRA) $420,750 (direct + ICR)

NIH grants: Sponsor or Co-sponsor

07/07-06/08 (Mentor) (Pre-doctoral Fellowship for Travis E. Brown)
Role of Matrix Metalloproteinases in Drug Relapse
NIH NRSA (F31 DA023729) $ 25,300

07/10-06/13 (Co-Mentor) (F31 DA028020 Pre-doctoral Fellowship for Brian R. Lee)
Neurocircuitry plasticity after cocaine seeking
NIH/NRSA $ 103,655

03/11-02/16 (Co-Mentor) (PI Yanhua Huang)
Regulation of nucleus accumbens neurons by sleep deprivation
NIH K99/R00 (DA029565-01) $ 784,584

07/18-06/23 (Mentor) (PI Postdoc Jordan Blacktop)
Role of Lateral Hypothalamic Area Perineuronal Nets in the Reinstatement of Cocaine-Seeking Behavior
NIH K99/R00 (DA045082) $ 963,288

(direct + ICR)

Funded-Intramural

07/90-07/91 (PI) *Cocaine and Stress-Induced Changes in Rat Brain Dopamine*
WSU-Alcohol and Drug Abuse Research Program $ 14,393

07/91-07/92 (PI) *Molecular Mechanisms of Cocaine-Induced Sensitization in Brain Dopaminergic Systems.*
WSU-Alcohol and Drug Abuse Research Program $ 16,872

01/01-5/03 (PI) *Effect of Electroconvulsive Seizure on Relapse to Cocaine-Seeking Behavior in Rats*
WSU Alcohol and Drug Abuse Research Program $ 25,000

07/03-12/04 (Co-I—Heiko Jansen, WSU, PI)
Role of the Circadian Pacemaker in Cocaine-addicted Relapse
WSU Alcohol and Drug Abuse Research Program $ 24,983

03/05-09/06 (Mentor) to Travis Brown-Graduate Student Support Fellowship
Cocaine Reinstatement and Brain Extracellular Matrix
WSU Alcohol and Drug Abuse Research Program $ 12,000

01/09-11/10 (PI) *Reconsolidation and Disruption of Cocaine-associated Memories*
WSU Alcohol and Drug Abuse Research Program $ 35,000

07/10 (Co-PI—Heiko Jansen, WSU, PI)
Equipment grant
WSU Alcohol and Drug Abuse Research Program $ 33,778

03/12 (PI) Equipment grant
WSU Alcohol and Drug Abuse Research Program $ 11,700

01/14-06/15 (PI) *Adenosine: Linking Cocaine Addiction to Sleep Abnormalities*
WSU Alcohol and Drug Abuse Research Program $ 24,434

06/14-09/14 (Mentor) to Megan Slaker-Graduate Student Support Fellowship
RNA Interference to Investigate the Role of Perineuronal Nets in Cocaine-seeking Behavior
WSU Alcohol and Drug Abuse Research Program $ 10,566

07/15-01/17 (Mentor) to Dr. Jordan M. Blacktop, Postdoctoral Fellowship
Role of lateral hypothalamic area perineuronal nets in cocaine self-administration
WSU Alcohol and Drug Abuse Research Program $ 15,000
(124777)

07/16-01/18 (Mentor) to Dr. John Harkness, Postdoctoral Fellowship
Investigation of single gene knockdown-induced perineuronal net plasticity for therapeutic potential in cocaine-seeking behavior
WSU Alcohol and Drug Abuse Research Program $ 15,000

(128334)

07/18-01/20 (PI) with Co-PI Dale Fortin
Targeting the Degradation of Perineuronal Nets $ 30,000

07/19-12/19 (Mentor) to Angela Gonzalez, Ph.D. student
Investigation of retrieval-extinction parameters using a variable ratio schedule during cocaine self-administration $ 13,207
(135212)

2001-present (Mentor) Undergraduate grants (Mentor) of 9 individuals total for semester-long or summer-long projects
WSU Alcohol and Drug Abuse Research Program ($2,000-$6,000 each)

04/19-03/20 (Co-I) with PI Shaban Demirel
EEG activity patterns for memory updating
Legacy Research Institute Kiesow Collaboration $ 5,000
0420- (Co-I)

Invited Presentations:

1. Symposium on Relationship of Sensitization to Animal Models of Psychosis; 17th Congress of Collegium Internationale Neuro-Psychopharmacologicum; Kyoto, Japan. 1990.
2. Symposium on Animal Models of Psychosis; C.I.N.P. Satellite Symposium on Trends in Schizophrenia and Mood Disorders Research; Kyoto, Japan. 1990.
3. Department of Biological Sciences, University of Idaho; Moscow, ID. 1990.
4. National Conference of Chemical Sensitivity and Low Chemical Exposure; Baltimore, MD. 1994.
5. Laboratoire de Psychobiologie des Comportements Adaptatifs; INSERM, Universite de Bordeaux; Bordeaux, France. 1994.
6. Workshop on Animal Models of Nervous System Susceptibility to Indoor Air Contaminants; U.S. EPA; Chapel Hill, NC. 1994.
7. Workshop on Multiple Chemical Sensitivity; Health Effects Institute; Cambridge, MA. 1995.
8. Conference on Risk Assessment Issues for Sensitive Human Populations; Dayton, OH. 1995.
9. Workshop on Experimental Approaches to Chemical Sensitivity; Environmental and Occupational Health Sciences Institute; Princeton, NJ. 1995.
10. 37th Occupational Health and Preventative Medicine Workshop; U.S. Navy; Virginia Beach, VA. 1996.
11. Department of Biological Sciences, University of Idaho; Moscow, ID. 1996.
12. NIDA meeting: "Stress, the CRF System and Drugs of Abuse", Washington, D.C. 1998.
13. Department of Medicine-Respiratory Sciences, University of Arizona Health Sciences Center, Tucson, AZ. 1998.

14. American Chemical Society, Symposium on Multiple Chemical Sensitivity, Boston, MA. 1998.
15. University of Bergen, Symposium on Sensitization/Somatization, Bergen, Norway. 1998.
16. Center for Disease Control, The Health Impact of Chemical Exposures During the Gulf War: A Research Planning Conference, Atlanta, 1999.
17. Washington State Weed Association, Yakima, WA. 1999.
18. Environmental Sensitivities Research Institute Conference, Herndon, VA. 1999.
19. Role of Neural Plasticity in Chemical Intolerance, New York Academy of Sciences Conference, (Principle Co-organizer), New York, NY. 2000.
20. National Institute on Drug Abuse weekly seminar series, Baltimore, MD. 2000.
21. Department of Pharmacology and Therapy, LSU Medical Center, Shreveport, LA. 2001.
22. University of Tennessee Health Science Center, Department of Pharmacology, Memphis, TN. 2003.
23. National Institutes of Environmental Health Sciences: Addiction and Chemical Intolerance: A Shared Etiology? (Meeting Co-organizer), North Carolina. 2005.
24. National Institute on Drug Abuse: Frontiers in Addiction Research (Chair): Reconsolidation of Memory: A New Approach to Treat Drug Addiction? Washington, D.C. 2005.
25. Medical University of South Carolina, Department of Neurosciences, Charleston, SC. 2008.
26. University of Chicago, Department of Psychiatry and Behavioral Neuroscience, Chicago, IL. 2011.
27. Washington State University – Spokane Riverpoint Campus, Spokane, WA. 2011.
28. Oregon Health & Science University, Behavioral Neuroscience, Portland, OR, 2012.
29. University of Wyoming, School of Pharmacy, Laramie, WY, 2012.
30. Legacy Research Institute, Portland, OR, 2013
31. Pavlovian Society, Portland, OR, 2015
32. Macquarie University Human Sciences Perspectives Workshop, Sydney, Australia, 2015
33. University of New South Wales Inter-University Meeting (Keynote Speaker) Sydney, Australia, 2015
34. American College of Neuropsychopharmacology (ACNP), Hollywood, FL, 2015.
35. Washington State University, Sleep and Performance Research Center, Spokane, 2016
36. Oregon Chapter, Society for Neuroscience, Portland, OR, 2016
37. National Institute on Drug Abuse NIDA-NIAAA Neuroscience Consortium Cutting-Edge Seminar, Bethesda, MD, 2016
38. Netherlands Institute of Neuroscience, Amsterdam, Netherlands, 2016
39. Jaume I University, Castellon, Spain, 2016
40. John van Geest Centre for Brain Repair (James Fawcett special group meeting with two other PIs from UK and Spain), University of Cambridge, Cambridge, UK, 2016

41. Labroots Neuroscience Virtual Conference, March, 2017
42. WSU Spokane College of Medicine Retreat, Spokane, WA, May, 2017 - internal
43. Research Society on Alcoholism, Denver, CO, June, 2017
44. WSU Translational Addiction Research Center, September, Vancouver, WA, 2017 - internal
45. Legacy Research Institute, Portland, OR, October, 2017
46. Controlling Neuronal Plasticity, Prague, Czech Republic, December, 2018
47. University of Wyoming, Laramie, WY, May, 2019
48. Oregon Health & Science University, Portland, OR, September, 2019
49. West Virginia University Health Sciences Center, Morgantown, WV, October, 2019
50. Research Society on Alcoholism, June, 2021

Papers (Refereed): (As of 4/21: citations: 5818; H-index 42)

1. **Sorg, B.A**., D. Agrawal, H.C. Agrawal and A.T. Campagnoni (1986). Expression of myelin proteolipid protein and basic protein in normal and dysmyelinating mutant mice. *J. Neurochem*. 46: 379-387.
2. **Sorg, B.A.**, M.M. Smith and A.T. Campagnoni (1987). Developmental expression of the myelin proteolipid protein and basic protein mRNAs in normal and dysmyelinating mutant mice. *J. Neurochem*. 49: 1146-1154.
3. Campagnoni, A.T., **B.A. Sorg**, H.J. Roth, K. Kronquist, S.L. Newman, K. Kitamura, C.W. Campagnoni and B.F. Crandall (1987). Expression of myelin protein genes in the developing brain. *J. Physiol*. (Paris, France) 82: 229-238.
4. **Sorg, B.A.**, N.S. Magnuson and R. Reeves (1989). Effect of dexamethasone on the expression of interleukin-2 in a mouse T cell line. *Intl. J. Biochem*. 21: 961-970.
5. **Sorg, B.A.** and P.W. Kalivas (1991). Effects of cocaine and footshock stress on extracellular dopamine levels in the ventral striatum. *Brain Res*. 559: 29-36.
6. See, R.E., **B.A. Sorg,** M.A. Chapman and P.W. Kalivas (1991). *In vivo* assessment of dopamine release and metabolism in the ventral striatum of awake rats following administration of dopamine D1 and D2 receptor agonists and antagonists. *Neuropharmacology* 30: 1269-1274.
7. **Sorg, B.A.** and P. Whitney (1992). Effect of trait anxiety and situational stress on working memory capacity. *J. Res. Personality* 26: 235-241.
8. **Sorg, B.A** (1992). Mesocorticolimbic dopamine systems: Cross-sensitization between stress and cocaine. *Ann. NY Acad. Sci.* 654: 136-144.
9. **Sorg B.A.** and P.W. Kalivas (1993). Effects of cocaine and footshock stress on extracellular dopamine levels in the medial prefrontal cortex. *Neuroscience* 5: 695-703.
10. **Sorg, B.A.**, S.-Y. Chen and P.W. Kalivas (1993). Time course of tyrosine hydroxylase expression following behavioral sensitization to cocaine. *J. Pharmacol. Exp. Ther*. 266(1):424-430.

11. Kalivas, P.W., M.S. Hooks and **B.A. Sorg** (1993). The pharmacology and neural circuitry involved of sensitization to psychostimulants. *Behav. Pharmacol.* 4: 315-334.

12. Hooks, M.S., **B.A. Sorg** and P.W. Kalivas (1994). The relationship between mRNA levels and the locomotor response to novelty. *Brain Res.* 663: 312-316.

13. **Sorg, B.A.**, M.S. Hooks and P.W. Kalivas (1994). Neuroanatomy and neurochemical mechanisms of time-dependent sensitization. *Toxicol. Indust. Health* 10: 369-386.

14. **Sorg, B.A.** and C. Ulibarri (1995). Application of a protein synthesis inhibitor into the ventral tegmental area but not the nucleus accumbens, prevents behavioral sensitization to cocaine. *Synapse* 20: 217-224.

15. **Sorg, B.A.**, B.J.M. Guminski, M.S. Hooks and P.W. Kalivas (1995). Cocaine alters glutamic acid decarboxylase mRNA differentially in the nucleus accumbens core and shell. *Mol. Brain Res.* 29: 381-386.

16. Prasad, B.M., **B.A. Sorg**, C. Ulibarri and P.W. Kalivas (1995). Sensitization to stress and psychostimulants: Involvement of dopamine transmission versus the HPA axis. *Ann. NY Acad. Sci.* 771: 617-625.

17. Prasad, B.M., C. Ulibarri, P.W. Kalivas and **B.A. Sorg** (1996). Effect of adrenalectomy on the initiation and expression of cocaine-induced sensitization. *Psychopharmacol.* 125: 265-273.

18. See, R.E., A.M. Lynch and **B.A. Sorg** (1996). Subchronic administration of clozapine, but not haloperidol and metoclopramide, decreases dopamine D2 receptor mRNA levels in the nucleus accumbens and caudate putamen in rats. *Neuroscience* 72: 99-104.

19. **Sorg, B.A.**, J.R. Willis, T.C. Nowatka, C. Ulibarri, R.E. See, and H.H. Westberg (1996). Proposed animal neurosensitization model for MCS in studies with formaldehyde. *Toxicology* 111:135-145.

20. **Sorg, B.A.**, and B.M. Prasad (1997). Potential role of stress and sensitization in the development and expression of multiple chemical sensitivity. *Env. Health Persp. S2* 105:539-547.

21. Bell, I.R., J. Rossi III, M.E. Gilbert, G. Kobal, L.A. Morrow, D.B. Newlin, **B.A. Sorg** and R.W. Wood (1997). Testing the neural sensitization and kindling hypothesis for illness from low levels of environmental chemicals: Working group report. *Env. Health Persp. S2* 105:539-547.

22. **Sorg, B.A.**, D.L. Davidson, P.W. Kalivas, and B.M. Prasad (1997). Repeated cocaine alters cocaine-induced increase in extracellular dopamine levels in the medial prefrontal cortex. *J. Pharm. Exp. Ther*. 281:54-61.

23. Meiergerd, S.M., J.O. Schenk, and **B.A. Sorg** (1997). Repeated cocaine and stress increase dopamine clearance in the rat medial prefrontal cortex. *Brain Res*.773:203-207.

24. Kalivas, PW, RC Pierce, J Cornish and **BA Sorg** (1998). A role for sensitization in craving and relapse in cocaine addiction. *J Psychopharmacol* 12:49-53.

25. Prasad, B.M., C. Ulibarri, and **B.A. Sorg** (1998). Stress-induced cross-sensitization to cocaine: Effect of adrenalectomy and corticosterone after short- and long-term withdrawal. *Psychopharmacol*. 136:24-33.

26. **Sorg, B.A**., J.R. Willis, R.E. See, B. Hopkins, and H.H. Westberg (1998). Repeated low-level formaldehyde exposure produces cross-sensitization to cocaine: Possible relevance to chemical sensitivity in humans. *Neuropsychoparmacol.* 18:385-394.

27. Prasad, B.M., T. Hochstatter and **B.A. Sorg** (1999). Expression of cocaine sensitization: regulation by the medial prefrontal cortex. *Neuroscience* 88: 765-774.

28. **Sorg, BA,** and T Hochstatter. (1999). Behavioral sensitization after repeated formaldehyde exposure in rats. *Toxicol. Indust. Health* 15:346-55.

29. **Sorg, B.A.** (1999). Multiple chemical sensitivity: potential role for neural sensitization. *Crit. Rev. Neurobiol*. 13:283-316 (invited review).

30. Wayment, H.K., J.O. Schenk, and **B.A. Sorg**. (2001). Characterization of extracellular dopamine clearance in the medial prefrontal cortex: role of monoamine uptake and monoamine oxidase inhibition. *J. Neurosci*. 21:35-44

31. **Sorg, BA**, N. Li and W.-R. Wu. (2001). Dopamine D1 receptor activation in the medial prefrontal cortex prevents the expression of cocaine sensitization. *J. Pharmacol. Exp. Ther.* 297:501-508.

32. **Sorg, B.A.,** T.M. Bailie, M.L. Tschirgi, N.Li and W.-R. Wu. (2001). Exposure to repeated low-level formaldehyde in rats increases basal corticosterone levels and enhances the corticosterone response to subsequent formaldehyde. *Brain Res.* 898:314-320.

33. Sanchez, C.J. and **B.A. Sorg**. (2001) Conditioned fear stimuli reinstate cocaine-induced conditioned place preference. *Brain Res.* 908:86-92.

34. **Sorg**, B.A., M.L. Tschirgi, S. Swindell, L. Chen and J. Fang (2001). Repeated formaldehyde effects in an animal model for multiple chemical sensitivity. *Ann. NY Acad. Sci*. 933:57-67.

35. **Sorg, B.A.** and D.B. Newlin,. (2002) Sensitization as a mechanism for multiple chemical sensitivity: relationship to evolutionary game theory. *Scand. J. Psychol*. 43:161-167.

36. Wu, W.-R., N. Li and **B.A. Sorg.** (2002) Regulation of medial prefrontal cortex dopamine response to acute and repeated cocaine: effect of alpha-amino-3-hydroxy-5-methylisoxazole-4-propionate/kainate receptors. *Neurosci.* 114:507-516.

37. **Sorg, BA**, DL Davidson, T Hochstatter and PW Sylvester (2002) Repeated cocaine decreases the avoidance response to a novel aversive stimulus. *Psychopharmacol.* 163:9-19.

38. Sanchez, CJ, TM Bailie, W-R Wu, N Li and **BA Sorg** (2003) Manipulation of D1-like receptor activation in the rat medial prefrontal cortex alters stress- and cocaine-induced reinstatement of conditioned place preference behavior. *Neurosci.* 119:497-505.

39. Wu, WR, N Li and **BA Sorg** (2003) Prolonged effects of repeated cocaine on medial prefrontal cortex dopamine response to cocaine and natural predatory odor challenge in rats. *Brain Res* 991:232-239.

40. **Sorg, BA**, S. Swindell and ML Tschirgi. (2004) Repeated low-level formaldehyde exposure produces enhanced fear conditioning to odor in male, but not female, rats. *Brain Res.* 1008:11-19.

41. **Sorg, BA**, N Li and WR Wu. (2004) Activation of dopamine D1 receptors in the medial prefrontal cortex produces bidirectional effects on cocaine-induced locomotor activity in rats: effects of repeated stress *Neurosci.* 127:187-196.

42. Sleipness, EP, **BA Sorg** and HT Jansen. (2005) Time of day alters long-term sensitization to cocaine in rats. *Brain Res.* 1065:132-137. PMID: 16309631

43. Cloutier, S, MR Forquer and **BA Sorg**. (2006) Low level lindane exposure alters extinction of conditioned fear in rats. *Toxicol*. 217:147-154.

44. Carter K, K Lukowiak, JO Schenk and **BA Sorg.** (2006) Repeated cocaine effects on learning, memory and extinction in the pond snail *Lymnaea stagnalis*. *J. Exp. Biol.* 209: 4273-4282. PMID: 17050842

45. Sleipness EP, **BA Sorg** and HT Jansen. (2007) Diurnal differences in dopamine transporter and tyrosine hydroxylase levels in rat brain: dependence on the suprachiasmatic nucleus. *Brain Res.* 1129: 34-42. PMID: 17156761

46. Brown TE, MR Forquer, DL Cocking, HT Jansen, JW Harding and **BA Sorg**. (2007) Role of matrix metalloproteinases in the acquisition and reconsolidation of cocaine-induced conditioned place preference. *Learn. Mem.* 14: 214-223. PMCID: PMC1838561

47. Sleipness EP, **BA Sorg** , Jansen HT. (2007) Contribution of the suprachiasmatic nucleus to day:night variation in cocaine-seeking behavior. *Physiol Behav* 91:523-530. PMID: 17573077

48. Huang YH, Lin Y, Brown TE, Han MH, Saal DB, Neve RL, Zukin RS, **BA Sorg**, Nestler EJ, Malenka RC, Dong Y. (2008) CREB modulates the functional output of nucleus accumbens neurons: a critical role of N-methyl-D-aspartate glutamate receptor (NMDA) receptors. *J Biol Chem* 283:2751-2760. PMCID: PMC2535571

49. Bjorklund NL, **BA Sorg**, Schenk JO. (2008) Neuronal dopamine transporter activity, density and methamphetamine inhibition are differentially altered in the nucleus accumbens and striatum with no changes in glycosylation in rats behaviorally sensitized to methamphetamine. *Synapse* 62:736-745. PMID: 18651643

50. Sleipness EP, Jansen HT, Schenk JO, **BA Sorg**. (2008) Time-of-day differences in dopamine clearance in the rat medial prefrontal cortex and nucleus accumbens. *Synapse* 62:877-885. PMCID: PMC3031299

51. Brown TE, Forquer MR, Harding JW, Wright JW, **BA Sorg**. (2008) Increase in matrix metalloproteinase-9 levels in the rat medial prefrontal cortex after cocaine reinstatement of conditioned place preference. *Synapse* 62:886-889. PMID: 18792988

52. Brown TE, Lee BR, **BA Sorg**. (2008) The NMDA antagonist MK-801 disrupts reconsolidation of a cocaine-associated memory or conditioned place preference but not for self-administration in rats. *Learn Mem* 15:857-865. PMCID: PMC2632842

53. Brown TE, AR Wilson, DL Cocking, **BA Sorg**. (2009) Inhibition of matrix metalloproteinase activity disrupts reconsolidation but not consolidation of a fear memory. *Neurobiol Learn Mem* 91:66-72. PMCID: PMC2719776

54. Mu P, T Fuchs, DB Saal, **BA Sorg**, Y Dong, J Panksepp. (2009) Repeated cocaine induces sensitization of ultrasonic vocalization in rats. *Neurosci Lett* 453:31-35. PMCID: PMC2680749

55. Wright JW, PC Meighan, TE Brown, RV Wiediger, **BA Sorg**, JW Harding. (2009) Habituation-induced neural plasticity in the hippocampus and prefrontal cortex mediated by MMP-3. *Behav Brain Res* 203:27-34.

56. Huang YH, Y Lin, P Mu, BR Lee, TE Brown, G Wayman, H Marie, W Liu, Z Yan, **BA Sorg**, OM Schlüter, RS Zukin, Y Dong. (2009) In vivo cocaine experience generates silent synapses *Neuron* 63:40-47. PMCID: PMC2721479

57. Mu P, J Moyer, M Ishikawa, Y Zhang, J Panksepp, **BA Sorg**, O Schlüter, Y Dong. (2010) Exposure to cocaine dynamically regulates the intrinsic membrane excitability of nucleus accumbens neurons. *J Neurosci* 30:3689-3699. PMCID: PMC2853189

58. Kennedy, CD, SW Houmes, KL Wyrick, SM Kammerzell, K Lukowiak, **BA Sorg** (2010) Methamphetamine enhances memory of operantly-conditioned respiratory behavior in the snail Lymnaea stagnalis. *J Exp Biol* 213:2055-2065. PMID: 20511519

59. Cearley, CN, K Blindheim, **BA Sorg**, JM Krueger, L Churchill (2011) Acute cocaine increases interleukin-1β mRNA and immunoreactive cells in the cortex and nucleus accumbens. *Neurochem. Res*. 36:686-692. PMID: 21399909

60. **Sorg, BA**, G Stark, A Sergeeva and HT Jansen (2011) Photoperiodic suppression of drug reinstatement. *Neuroscience* 176:284-295. PMCID: PMC3040258

61. Brown TE, B Lee, P Mu, D Ferguson, D Dietz, Y Ohnishi, Y Lin, A Suska, M Ishikawa, Y Huang, H-W Shen, PW Kalivas, **BA Sorg**, RS Zukin, E Nestler, Y Dong, O Schlüter (2011) A silent synapse-based mechanism for cocaine-induced locomotor sensitization. *J Neurosci* 31:8163-8174. PMCID: PMC3286116

62. Browning JR, DA Browning, AO Maxwell, Y Dong, HT Jansen, J Panksepp, **BA Sorg** (2011) Positive affective vocalizations during cocaine and sucrose self-administration: A model for spontaneous drug desire in rats *Neuropharmacol* 61: 268-275. PMCID: PMC3115664

63. **Sorg, BA** (2012) Reconsolidation of drug memories. *Neurosci Biobehav Rev*. 36: 1400-1417. PMCID: PMC3526670

64. Jansen, HT, A Sergeeva, G Stark, **BA Sorg** (2012). Circadian discrimination of reward: evidence for simultaneous yet separable food- and drug-entrained rhythms in the rat. *Chronobiol Intl* 29:454-468. PMID: 22475541

65. Sanchez, EJ, RP Hayes, BN Webb, AK Subramanian, MS Nissen, JT Barr, JP Jones, EA Shelden, **BA Sorg**, M Fill, JO Schenk, C Kang (2013). Potential role of cardiac calsequestrin in the lethal arrhythmic effects of cocaine. *Drug Alc Depend* 133:344-351. PMCID: PMC4097383

66. Browning, JR, HT Jansen, and **BA Sorg** (2014). Inactivation of the paraventricular thalamus abolishes the expression of cocaine conditioned place preference in rats. *Drug Alc Depend* 134: 387-390. PMCID: PMC3910376

67. Lukowiak K, B Heckler, TE Bennett, EK Schriner, K Wyrick, C Jewett, RP Todd, and **BA Sorg** (2014) Enhanced memory persistence is blocked by a DNA methyltransferase inhibitor in the snail *Lymnaea stagnalis. J Exp Biol* 217:2920-2929. PMID: 24902747

68. **Sorg BA**, RP Todd, M Slaker and L Churchill (2015) Anisomycin in the medial prefrontal cortex reduces reconsolidation of cocaine-associated memories in the rat self-administration model. *Neuropharmacol* 92:25-33. PMCID: PMC4346388

69. Slaker M, L Churchill, RP Todd, JM Blacktop, DG Zuloaga, J Raber, RA Darling, TE Brown, and **BA Sorg** (2015) Removal of perineuronal nets in the medial prefrontal cortex impairs the acquisition and reconsolidation of cocaine-conditioned place preference. *J Neurosci* 35:4190-4202. PMCID: PMC4355195

70. Slaker, M, JM Blacktop, and **BA Sorg** (2016) Caught in the net: Perineuronal nets and addiction. *Neural Plasticity* (Invited review) PMC4745418

71. Zhang, X, VM Chiu, RP Todd, **BA Sorg**, and HH Hill (2016) Neuronal metabolomics by ion mobility mass spectrometry in cocaine self-administering rats after early and late withdrawal. *Analyt Bioanalyt Chem* 408:4233-4245 PMID: 27108279.

72. **Sorg, BA**, S Berretta, JM Blacktop, JW Fawcett, H Kitagawa, JCF Kwok and M Miquel. (2016) Casting a wide net: role of perineuronal nets in neural plasticity. *J Neurosci* 36:11459-11468. PMID: 27911749.

73. Slaker, ML, J Harkness and **BA Sorg** (2016) A standardized and automated method of perineuronal net analysis using *Wisteria floribunda* agglutinin staining intensity. *IBRO Reports* 1:54-60. PMID: 28713865

74. Slaker, ML, J Barnes, **BA Sorg** and JW Grimm (2016) Impact of environmental enrichment on perineuronal nets in the prefrontal cortex following early and late abstinence from sucrose self-administration in rats. *PLOS ONE* 11:e0168256. PMID: 27977779

75. Blacktop, JM, RP Todd and **BA Sorg** (2017) Role of perineuronal nets in the anterior dorsal lateral hypothalamic area in the acquisition of cocaine-induced conditioned place preference and self-administration. *Neuropharmacol*, 118:124-136.

76. Dingess PM, Harkness JH, Slaker M, **Sorg BA**, and Brown TE (2018) Consumption of a high fat diet alters perineuronal nets in the prefrontal cortex. *Neural Plasticity,* PMID: 29849552.

77. Blacktop, JM and **BA Sorg** (2018) Perineuronal nets in the lateral hypothalamus area regulate cue-induced reinstatement of cocaine seeking behavior. *Neuropsychopharmacol* PMID: 30258113.

78. Slaker, ML, ET Jorgensen, DM Hegarty, X Liu, Y Kong, F Zhang, RJ Linhardt, TE Brown, SA Aicher and **BA Sorg**. (2018) Cocaine exposure modulates perineuronal nets and synaptic excitability of fast-spiking interneurons in the medial prefrontal cortex. *eNeuro* 0221-18.2018. PMID: 30294670.

79. Su, W., S. Matsumoto, **B. Sorg,** and L.S. Sherman (2019) Distinct roles for hyaluronan in neural stem cell niches and perineuronal nets. *Matrix Biology* 78-79:272-283. PMCID: PMC6068007.

80. Harkness, JH, PN Bushana, RP Todd, WC Clegern, **BA Sorg** and JP Wisor (2019) Sleep disruption elevates oxidative stress in parvalbumin-positive cells of the rat cerebral cortex. *Sleep* PMID: 30371896.

81. Dingess, PM, Z. Zhaojie, **BA Sorg**, CR Ferrario, and TE Brown (2020) Dietary high fat differentially affects perineuronal nets in the prefrontal cortex of male and female rats that are susceptible to obesity. *Physiol Behav* (In Press).

82. Jorgenson, EJ, AE Gonzalez, JH Harkness, DM Hegarty, A Thakar, DJ Burchi, JA Aadland, SA Aicher, **BA Sorg** and TE Brown (2020) Cocaine memory reactivation induces functional adaptations within parvalbumin interneurons in the rat medial prefrontal cortex. *Addiction Biol* (e12947).

83. Reyes, K-A, PS Kudva, B Heckler, AE Gonzalez, and **BA Sorg** (2020) Rat ultrasonic vocalization as an index of memory. *Neurosci Lett* (In Press) PMCID: PMC7750257.

84. Harkness, JH, AE Gonzalez, PN Bushana, ET Jorgensen, DM Hegarty, AA Di Nardo, A Prochiantz, JP Wisor, SA Aicher, TE Brown, and **BA Sorg**. Diurnal changes in perineuronal

nets and parvalbumin neurons in the rat medial prefrontal cortex. *Brain Structure & Function* (In Press) PMID: 33585984.

85. Wingert, JC, and **BA Sorg** (2021) Impact of perineuronal nets on electrophysiology of parvalbumin interneurons, principal neurons, and brain oscillations: A review. *Front Synaptic Neurosci* (In Press).

Chapters and Other Publications:

1. Macklin, W.B., M.V. Gardinier, P.L. Deininger, **B.A. Sorg** and C.W. Campagnoni (1987). Myelin proteolipid protein expression in normal and jimpy mice. In: *A Multidisciplinary Approach to Myelin Diseases*. Plenum Press, New York, NY, pp. 29-46.
2. **Sorg, B.A.**, N.S. Magnuson and R. Reeves (1989). Regulation of interleukin-2 expression by dexamethasone in a mouse T cell line. In: *Molecular Biology of Stress*. S. Breznitz and O. Zinder, eds. Alan R. Liss, New York, NY, pp. 215-224.
3. Steketee, J.D., **B.A. Sorg** and P.W. Kalivas (1992). The role of the nucleus accumbens in sensitization to drugs of abuse. *Prog. Neuro-Psychopharmacol. Biol. Psychiat.* 16: 237-246.
4. **Sorg, B.A.** and J.D. Steketee (1992). Mechanisms of cocaine-induced sensitization. *Prog. Neuro-Psychopharm. Biol. Psychiat*. 16: 1003-1012.
5. **Sorg, B.A.** and P.W. Kalivas (1993). Behavioral sensitization to stress and psychostimulants: Role of dopamine and excitatory amino acids in the mesocorticolimbic system. *Seminars Neurosci.* 5: 343-350.
6. **Sorg, B.A.** and P.W. Kalivas (1995). Stress and neuronal sensitization. In: *Neurobiological and Clinical Consequences of Stress: From Normal Adaptation to PTSD*. M.J. Friedman, D.S. Charney and A.Y. Deutch, eds. Raven Press, pp. 83-103.
7. Kalivas, P.W. and **B.A. Sorg** (1996). Role of neurotransmitters in the ventral tegmental area in stress-induced activation of dopamine transmission. *NIAAA Monogram.* 29:139-144.
8. Kalivas, P.W. and **B.A Sorg** (1996). Animal models of psychosis reveal involvement of hippocampal-corticostrial-mesencephalic circuitry. In: *Dopamine Disease States*. R.J. Beninger, T. Palomo and T. Archer, eds. CYM Press, Madrid, Spain. pp. 463-475.
9. Kalivas, P.W., R.C. Pierce and **B.A. Sorg** (1999). A role for sensitization in psychostimulant-induced paranoia and psychosis. In: *Interactive Monaminergic Disorders.* RJ Beninger, T Palomo, and T Archer, eds. CYM Press: Madrid, Spain; pp. 453-460
10. Keegan, R.D., L. Shuang, **B.A. Sorg** and R.M. Quock (2003) The role of nitric oxide in locomotor regulation in mice and its interaction with nitrous oxide. *Proc. West. Pharmacol. Soc*. 46:114-115.
11. **Sorg, B.A.,** T.M. Bailie and N. Li (2011) Dopamine receptor stimulation or blockade in the medial prefrontal cortex suppresses extinction of a conditioned fear response in rats. In: *Psychology of Fear: New Research (Psychology of Emotions, Motivations and Actions)* Allen D. Gervaise, Ed., Elsevier, pp 83-94. (Invited chapter).
12. **Sorg, B.A.** and T.E. Brown (2012) Matrix metalloproteinases, memory consolidation, reconsolidation, and drugs of abuse. In: *Matrix Metalloproteinases: Biology, Functions and*

Clinical Implications (Oshiro, N and Miyagi, E., eds). Nova Publishers, pp. 127-150. (Invited chapter).

13. **Sorg, B.A.** (2013) Memory reconsolidation and drugs of abuse. In: *Biological Research on Addiction: Comprehensive Addictive Behaviors and Disorders, Vol 2* (Miller, P.M., ed) pp. 323-332 (Invited chapter).

Books Edited:

1. **Sorg, B.A.** and Bell, I.R. (2001). Role of Neural Plasticity in Chemical Intolerance. *Annals of the New York Academy of Sciences* 933:329 pp. (Conducted 100% editing for this volume)

Other Publications

1. **Sorg, B.A.** (1999) Multiple chemical sensitivities. *Agrichemical and Environmental News* 155:1-3.
2. **Sorg, B.A.** (1999) Multiple chemical sensitivities: understanding the phenomenon. *Washington State Weed Association*
3. Brain Facts: (2016) *Putting the brakes on brain changes* http://www.brainfacts.org/brain-basics/cell-communication/articles/2016/image-of-the-week-putting-the-brakes-on-brain-changes-122016/

Abstracts: (about 135 total as of 2020; approximately 8-12/year as of 2020; majority are Society for Neuroscience Abstracts; others: College on Problems of Drug Dependence, Winter Brain Conference, misc.)

U.S. Patent (10603462) with John Harkness, Ryan Todd: *Trolley for the Automation of Sleep Disruption*

Grant Reviewer

2020	NIH-Ad hoc: SEP (ZRG1 IFCN-C)
2020	Biotechnology and Biological Sciences Research Council, UK (BBSRC)
2020	NIH BPN (Blueprint Neurotherapeutics) – Ad hoc; ZNS1 SRB-T
2020	University of Washington Diabetes Research Center
2019	Neurological Foundation of New Zealand
2019	Netherlands Organisation for Scientific Research
2018	French Agence Nationale de la Recherche
2016, 2017	NIH Cutting-Edge Basic Research Awards (CEBRA; ZDA1 JXR-D 12 S) (ad hoc)
2016, 2018	Foundation for Polish Science
2016	WSU-Vancouver Mini-grants
2015, 2019	NIH BPN (Blueprint Neurotherapeutics)—Ad hoc; ZNS1 SRB-T
2013, 2017	Medical Research Council (UK)—Ad hoc
2013	NIH BRLE—Ad hoc
2013, 2018	Israel Science Foundation—Ad hoc
2013-2019	NIH NMB Study Section, **Standing Member**

2012	NIH-Ad hoc: NMB and ZRG1 IFCN-L
2011	NSF—Ad hoc
2011	NIH—Ad hoc: NIDA ZDA1 GXM-A; NIDA B/START; ZDA1-JXR-D; ZDA1 JXR-D – program projects
2006-2009	NIH -- Ad hoc: NIDA-L, ZDA1 RXL-E and NMB (2008), ZDA1 GMX-A and ZDA1 GMX-A (2009) ZDA
1999-2005	NIH (NIDA) **Standing Member**, Medications Development (SEP Chair, 2002)
1999	NIH (NIDA) Medications Development Special Emphasis Panel
1997-2004	U.S. Army Medical Research and Materiel Command, Ad-hoc
1998-1999	Department of Veterans Affairs
1993-present	Washington State University Alcohol and Drug Abuse Program
1997-1998	University of Idaho EPSCoR Foundation

Editorial Board Member:

2010-present: *Journal of Addiction Research & Therapy*

Ad Hoc Manuscript Reviewer: (approx 12-24 manuscripts/year)

Reviewing Editor for Frontiers in Molecular Neuroscience, Alcoholism Clinical and Experimental Research, Behavioural Brain Research, Biological Psychiatry, Brain Research, Brain Research Bulletin, Brain Structure and Function, Drug and Alcohol Dependence, eLIFE, Environmental Health Perspectives, Environmental Research, European Journal of Neuroscience, European Neuropsychopharmacology, Experimental Neurology, Frontiers in Behavioral Neuroscience (and Molecular Neuroscience), Hearing Research, Indian Journal of Medicine, International Journal of Neuropsychopharmacology, International Neuropsychiatric Disease Journal, Journal of Experimental Biology, Journal of Neurochemistry, Journal of Neuroscience, Journal of Psychosomatic Research, Journal of Visualized Experiments, Learning and Memory, Nature Metabolism, Neurobiology of Ageing, Neurobiology of Disease, Neurobiology of Learning and Memory, Neuropsychopharmacology, Neuroscience Letters, Neuroreport, Neuroscience and Biobehavioral Reviews, Neurotoxicology, Proceedings of the National Academy of Sciences; Psychopharmacology, Pharmacology, Biochemistry and Behavior, PLOS One, Radiation Research, Scientific Reports, Toxicology, Translational Psychiatry, Trends in Genetics, Western Journal of Medicine

Principal Organizer or Co-organizer:

1. *New York Academy of Sciences*-sponsored meeting entitled "Role of Neural Plasticity in Chemical Intolerance". June 16-19, 2000, Rockefeller University, NY. (Co-organizer, Chair)
2. *National Institute of Environmental Health Sciences*: "Addiction and Chemical Intolerance: A Shared Etiology?" September, 2005, North Carolina (Co-organizer)
3. *National Institute on Drug Abuse:* Frontiers in Addiction Research: "Reconsolidation of Memory: A New Approach to Treat Drug Addiction?" November, 2005 (Organizer and Chair)
4. *Society for Neuroscience* Mini-symposium "Casting a Wide Net: Role of Perineuronal Nets in Neural Plasticity" October, 2016 (Organizer and Chair)
5. *Winter Conference on Brain* Panel "Net Gain and Loss: Perineuronal Nets, Plasticity, and Drugs of Abuse" January, 2018 (Organizer and Chair)

6. *Society for Neuroscience* Nanosymposium "Circuitry and Cell-Type Specific Neurophysiology of Addiction" November, 2018 (Co-chair)

Honors and Awards:

01/01/87-12/31/88	Traineeship: PHS NRSA (Grant #2 T32 A1 07025-7A1); Immunology Training Grant.
10/2009	WSU Honor's College Thesis Advisor Award

Scientific Organizations:

Society for Neuroscience

American Association for the Advancement of Science

International Behavioral Neuroscience Society

Institute of Translational Health Sciences, University of Washington

College on Problems of Drug Dependence

Local Groups/Associations

1995-1996	Northern Rocky Mountain Chapter - Society for Neuroscience (Treasurer)
1997-1998	Northern Rocky Mountain Chapter - Society for Neuroscience (President)
2016-present	Society for Neuroscience, Oregon Chapter (secretary, 2020)
2021	Steve Gleason Institute for Neuroscience, WSU Spokane

Service to Legacy Research Institute

2019-present	Institutional Animal Care and Use Committee
2020	Legacy Research Institute Promotions Committee

Service to Oregon Health & Science University

2020-2021	Program Advisory Committee, Portland Alcohol Research Center

Service to Washington State University and Community:

Outreach Presentations and Other Activities:

- Alcohol and Drug Abuse—presentation to Health and Wellness Center, Fall, 2000
- WSU Mom's Weekend-presentation on Drugs of Abuse, April, 2002
- Alive Sessions: once/year up through 2009
- Biomedical Science Program 5-year review, Marquette University, Spring, 2008
- Established formal partnership with Legacy Research Institute, Portland, OR, 2015
- Presentation to Legislative Staff Tour (Drug Addiction and Memory), WSU-Vancouver, 2015

- WSU-V Neuroscience promotion, STEM Girls Conference, Camus High School 2016, 2017
- Presentation to *Technology Alliance* "Food for Thought" Series at the *Ranier Club* (Drug Addiction and Memory), Seattle, WA, 2016
- Kiggins Theatre "Science on Tap" (Drug Addiction and Memory), Vancouver, WA, 2016
- Washington State House of Representatives presentation to Commerce and Gaming Committee on marijuana research activities at WSU, Olympia, WA, 2016
- Clinton Street Theatre "Science on Tap" (Drug Addiction and Memory), Portland, OR, 2016
- Alberta Rose Theatre "Science on Tap (Drug Addiction and Memory), Portland, OR, 2016
- Portland Humanists Society (Memory of Drug Addiction), Portland, OR, 2017
- Washington State University Advisory Board (Addiction), Vancouver, WA, 2017
- Washington State Legislative and Congressional Staff (Addiction and Stress), Vancouver, WA 2017
- Portland State University (Perineuronal nets and cocaine memories), Portland, OR, 2019

University Committees at WSU

2003-2004	Alcohol and Drug Abuse Proposal Steering Committee
2003-2014	Alcohol and Drug Abuse Research Program, **Director** (2003-2014)
2011-2019	Translational Addiction Research Center, **Co-director** (2011-2019)
2013-2015	Sahlin Award Committee: Research Scholarship & Arts (Chair, 2 years)
2015-2018	Graduate School Mentor Committee
2014-present	Alcohol and Drug Abuse Research Program Advisory Board
2021-2023	Portland Alcohol Research Center, external program advisory committee member

Department/College Committees at WSU

1996-1999	Animal Resource Unit Committee (Chair, 1998 & 1999)
1996-1997	Graduate Student Recruitment Committee (Chair)
1996-1998	Graduate Studies Committee (VCAPP)
1996	Space Committee (VCAPP)
1997-2000	Co-organizer for Brain Awareness activities
1997	Program Policy Committee (Neuroscience Program)
1997-2001	Graduate Studies Committee (VCAPP)
1996-2001	Faculty Mentor, (School of Vet. Med. students)
1999-2004	Wegner Hall Vivarium Committee
2002	Neuroscience 5-year Planning Committee (Chair)
2002-2003	Wegner Hall Vivarium Committee (Chair)
2002-2003	Neuroscience Curriculum Committee (undergraduate--Co-chair)

2002	Space/Resources Committee
2002/2003	Search Committee, Wegner Vivarium
2003-2010	CVM Research Committee (Chair ’07 and ’08)
2005	New Faculty Search Committee (Chair)
2005	Neuroscience Curriculum Committee (undergraduate)
2005-2007	Pharmacology/Toxicology Admissions Committee
2006-2007	Graduate Studies Committee
2007-2010	Chair's Advisory Committee
2007	VCAPP Planning Committee
2009/2010	CVM Faculty Executive Committee
2009/2010	Biomedical Sciences Building Design Committee
2009-present	Neuroscience Program Curriculum Committee
2010	New Faculty Search Committee (Chair)
2011-2016	College of Veterinary Medicine Tenure and Promotion Committee
2012	New Faculty Search Committee (IPN)
2013	New Faculty Search Committee (2 positions, IPN)
2012-2013	5-Year Strategic Planning Committee (IPN)
2012-present	Neuroscience Graduate Program Executive Committee (IPN)
2013-2019	Program Leader, Neuroscience, WSU Vancouver (excluding Fall, 2016)

Postdoctoral Fellows

1999-2004	Weiran Wu, M.D., Ph.D. (currently Psychiatrist, University Health System, San Antonio, TX
2014-present	Jordan Blacktop, Ph.D. – recipient of NIH K99 award (2018)
2016-2019	John Harkness, Ph.D. – currently CEO of Rewire.com and recipient of NIH SBIR award (2019)

Student Ph.D. Committees

1994	Balakrishna Prasad of Neuroscience (**Chair**)
1997	Frank Koegler of Neuroscience
1997	Zhiping Cao
1997	Tammy Stobb of Chemistry
1997	Shannon Long of Chemistry
1998	Holly Wayment of Chemistry
1998	Nicole Sanders of Neuroscience
1998	Cynthia Earles of Chemistry
1999	Julie Strattman of Psychology
1999	Jo Anne Alfaro of Chemistry
1999	Eniko Kramer of Psychology
1999	Laura Markowski of Chemistry

2000 Shuang Li (Pharmaceutical Sciences)
2000 Sean Sanders (Neuroscience)
2001 Myung Kim (Chemistry)
2001 Kishor Bugarith (Neuroscience)
2001 Olga Gurkovskaya (Pharmacol/Therap., LSU)
2002 Mike Olsen (Psychology)
2002 Evan Sleipness (Neuroscience) (**Co-Chair**)
2002 Erin Stoeffel (Psychology)
2003 Starla Meighan (Neuroscience)
2003 Trent Volz (Chemistry)
2003 Nicole Bjorklund (Chemistry)
2006 Pete Meighan (Neuroscience)
2004 Travis Brown (Neuroscience) (**Chair**)
2005 Sanjib Mukherjee (Neuroscience)
2005 Patrick Elias (Pharmaceutical Sciences)
2007 Adie Wilson (Neuroscience)
2006 Reka Natarajan (Neuroscience)
2006 Fan Liao (Neuroscience)
2006 Caroline Benoist (Neuroscience)
2006 Bhavani Kashyap (U. Idaho, Neuroscience)
2008 Brian Lee (Neuroscience) (**Co-chair**)
2008 Jenny Browning (Neuroscience) (**Co-chair**)
2008 Veronica Chiu (Chemistry)
2010 Seth Davis (Psychology)
2011 Brad Winters (Neuroscience)
2010 Peter Neumann (Neuroscience) (**Co-chair until 2012**)
2012 Megan Slaker (Neuroscience) (**Chair**)
2012 Melissa Mehalick (Psychology-WSU Vancouver)
2013 Phillip Uribe (Neuroscience-WSU Vancouver)
2014 Matthew Lambert (School of Biological Sciences-WSU Vancouver)
2014 Jessica Higginbotham (Neuroscience-WSU Pullman)
2014 Christie Pizzimenti (Behavioral Neuroscience, OHSU)
2015 Ram Kandasamy (Neuroscience-WSU Vancouver)
2015** Jeff Hoyt (Neuroscience-WSU Vancouver)
2016 Rikki Quinn (University of Newcastle, Australia; final PhD thesis only)
2017 Maria Carbó Gas (Universitat Jaume I, Spain; final PhD thesis only)
2017** Priyanka Bushana (WSU Spokane) **(Co-chair)**
2017** Pique Choi (Neuroscience, WSU Pullman)
2018** Angela Gonzalez (Neuroscience, WSU Vancouver (**Chair**)

** Current

Student M.S. Committees

1996 Ken Bell of Neuroscience
1997 Jeff Stobb of Neuroscience
1998 Susan Bale of Zoology
1999 Mitch Green of Chemistry
2000 Cortney Wright (Chemistry)
2000 Christopher Sanchez (Neuroscience, **Chair**)
2000 Rick Schumacher (Chemistry)
2000 Shannon George (Chemistry)
2004 Kathleen Carter (Neuroscience) (**Chair**)
2004 Davelle Cocking (Pharmaceutical Sciences, **Chair**)
2005 Rick Heckert (Pharmaceutical Sciences)
2008 Karen Gerde (Psychology)
2012 Derrick Phillips (Neuroscience)

Graduate Student Rotations

1999 Lichao Chen (Neuroscience)
2000 Shuang Li (Pharmaceutical Sciences)
2000 Christopher Sanchez (Neuroscience)
2000 Jeff Herman (Pharmaceutical Sciences)
2000 Theresa Bjorness (Neuroscience)
2002 Evan Sleipness (Neuroscience)
2003 Travis Brown (Neuroscience)
2003 Kathleen Carter
2004 Davelle Cocking (Pharm. Sci.)
2005 Karina Villa (Pharm. Sci.)
2006 Robert Olson (Neuroscience)
2007 Adie Wilson (Neuroscience)
2008 Jenny Browning (Neuroscience)
2008 Brian Lee (Neuroscience)
2008 Stella Feng (Pharm. Sci.)
2009 Peter Neumann (Neuroscience)
2010 Rong Guo (Neuroscience)
2011 Kimberly Honn (Neuroscience)
2011 Megan Slaker (Neuroscience)
2017 Vanessa Real (Neuroscience)
2017 Isis Gil Miravet (visiting PhD student from Universitat Jaume I, Spain for 4 mo)

Undergraduate 495/499 Students

2001-2002 Kristi Ilyankoff

2001-2002 Elizabeth Ferluga (WSU Alcohol and Drug Abuse award)
2002-2003 Jennifer Homan
2003 Anastacia Shaver
2003-2004 Ryan Barnes (WSU Alcohol and Drug Abuse award)
2003 Patrick Hines
2004-2005 Rachel Burnham
2005-2006 Justine Gullaba
2005-2007 Leslie Green (Esparza)FB
2006-2007 Steven Houmes* (WSU Alcohol and Drug Abuse Program award)
2008 Colin Kennedy* (WSU Alcohol and Drug Abuse Program award)
2008-2011 Katie Wyrick* (WSU Alcohol and Drug Abuse Program award
2009-2011 Tom Bennett* (WSU Alcohol and Drug Abuse Program award)
2009-2010 Sam Kammerzell*
2009-2010 Nick Sparks
2009-2011 Laura Curtis
2010-2012 Christopher Cao--email
2010-2012 Erik Larson--FB
2010-2011 Wesley Millard
2010-2011 Ellen Shriner*--email to yahoo account
2011-2013 Cynthia Jewett* (WSU Pullman)
2012-2014 Ben Heckler* (Portland State University)
2013-2014 Joel Ohrt (WSU Vancouver; WSU Alcohol and Drug Abuse Program award)
2013-2014 Jesse Chiem (University of Portland)
2013-2014 Silas Aho (WSU Vancouver)
2013-2017 Priya Kudva* (WSU Vancouver)
2013-2014 Ellie Ficco (WSU Vancouver)
2013-2014 Kyle Campion (WSU Vancouver)
2014-2016 Kyrie Reyes* (WSU Vancouver; WSU Alcohol and Drug Abuse Program award)
2014-2016 Kelsey O'Neill (WSU Vancouver)
2014-2017 Nathan Allen (WSU Vancouver)
2015-2018 Angela Gonzalez* (WSU Vancouver) - now Graduate Student in the lab
2016-2016 David Choi (WSU Vancouver)
2016-2018 Jereme Wingert (WSU Vancouver; WSU Alcohol and Drug Abuse Program award) now –post-bacc in the lab
2017-2018 Holly D'Andrea (WSU Vancouver)
2018-2020 Ashlynn Dean (WSU Vancouver)
2018-2020 Jonathan Anguiano (WSU Vancouver)
2018-2020 Abigail Gligor (WSU Vancouver)
2019-2020 Blake Marble (WSU Vancouver)
2019-2021 Jordan Kronstad (WSU Vancouver)

+ Current students

* Co-authors on peer-reviewed publication

High School Students

2015 Nicole Lobokov (Camus High School summer project)
2016-2018 Monica Chen (Camus High School; winner of 2017 OregonBio Research Fast Pitch event at OMSI, Portland, OR)

Honor's Thesis Advisor

2001-2003 Elizabeth Ferluga (graduated with distinction)
2003-2004 Ryan Barnes
2003-2004 Amanda Lamp
2008-2009 Colin Kennedy
2009-2010 Sam Kammerzell (graduated with distinction)
2009-2011 Laura Curtis
2013-2015 Ellie Ficco (WSU Vancouver)
2014-2016 Kelsey O'Neill (WSU Vancouver)

TEACHING (contact hours listed)

Graduate

Neuro 520: Functional Neuroscience (≈ 8 students)
25 hr (Fall, 2001)
17 hr (Fall, 2002)

Neuro 540: Neuropharmacology (≈ 10 students)
3 hr (Spring 1995)
6 hr (Spring 1997)

Neuro 540: Special Topics in Neuroscience (5-8 students)
10 hr (Spring 2003--Course Director)
15 hr (Spring 2008--Course Director)
6 hr (Fall 2010)
3 hr (Fall 2012)
1 hr (Fall 2013)

Neuro 592: Research Writing and Seminar (2-9 students)
Meets once/week, 3 hr class time + individual time with students
Course Director (Spring, 2007—2018, excluding Fall 2016)

Pharm/Tox 502: Faculty Research in Pharmacology/Toxicology (≈ 6 students)
1 hr (Fall, 2002)
1 hr (Fall, 2003)
1 hr (Fall, 2005)

Pharm/Tox 506: Principles of Pharmacology (Fall 1999)
4 hr

Psych 579: Stress and Behavior (≈ 10 students)

2 hr (Spring 1995)

VPh/PT 529: Cellular/Molecular Neurobiology (≈ 10 students)
4 hr (Spring 1995)
6 hr (Spring 1996)
3 hr (Spring 1997)
24 hr (Spring 1999)
20 hr (Spring 2000)
15 hr (Spring 2001)
24 hr (Spring 2004)
20 hr (Spring 2005--Course Director)
20 hr (Spring 2006--Course Director)
20 hr (Spring 2007--Course Director)
8 hr (Spring 2008--Course Director)
8 hr (Spring 2009--Course Director)

VPh 555: Cell Physiology (≈ 15 students)
5 hr (Fall, 2000)
5 hr (Fall, 2001)
5 hr (Fall, 2002)

VPh 590: VCAPP Seminar Series
Course director (Fall 2000 and Spring 2001)
Course director (Spring 2003)

NURS 563
One lecture on Addiction (Spring 2013)

Ed Psych 502: Educational Psych (17 students)
One 2.5 hr lecture on Memory and the Brain (Fall 2015)

Undergraduate

Neuro 138: Special Topics in Neuroscience (≈ 16-27 students)
Meets once/week for 1 hr
2 hr (Fall, 1999)
2 hr (Spring, 2000)
1 hr (Fall, 2002 – 2010)
Approx. 1/3-1/2 of course organizer (Spring 2014)
Course director since Spring 2015

Neuro 303: Neurochemistry (undergraduate core course- 3 credit course) (≈ 10 students)
40 hr (Spring, 1998--Course Director)
28 hr (Spring, 1999--Course Director)

Neuro 403: Cellular Neurobiology (≈ 17-35 students)
30 hr (Spring, 2001--Course Director)
27 hr (Fall, 2001--Course Director)
27 hr (Fall, 2002--Course Director)
45 hr (Fall, 2003--Course Director)
35 hr (Fall, 2004--Course Director)

30 hr (Fall, 2005--Course Director)
24 hr (Fall, 2006--Course Director)
15 hr (Fall, 2007-2012--Course Director)
15 hr (Spring, 2013, 2015)
15 hr (Fall, 2017, 2018)