

RANDY J. NELSON

CURRICULUM VITAE

ADDRESS

Department of Neuroscience
School of Medicine
West Virginia University
Morgantown, WV 26506 USA
Webpage: <https://medicine.hsc.wvu.edu/neuroscience/labs/randy-nelson-phd>

P: 304.293.1723
P: 304.581.1760 (Lab)
E: randy.nelson@hsc.wvu.edu

h-index (Google Scholar 2.20.2021) = 98
ORCID: 0000-0002-8194-4016
Scopus Author ID: 7404561091

EDUCATION (University of California, Berkeley)

AB	Psychology (High Honors)	1978
MA	Psychology	1980
PhD	Psychology	1983
PhD	Endocrinology	1984

PROFESSIONAL EXPERIENCE

Post-Doctoral Fellow, University of Texas, Austin (Drs. F.H. Bronson & C. Desjardins, Sponsors), 1984-1986.

Assistant Professor of Psychology, The Johns Hopkins University, Baltimore, MD 1986-1991.

Assistant Professor of Population Dynamics, Reproductive Biology Division, The Johns Hopkins University, School of Hygiene and Public Health, Baltimore, MD 1986-1991 (Joint appointment).

Associate Professor of Psychology, The Johns Hopkins University, Baltimore, Maryland, 1991-1996.

Associate Professor of Population Dynamics, Reproductive Biology Division, The Johns Hopkins University, School of Hygiene and Public Health, Baltimore, MD 1991-1996 (Joint appointment).

Program Director, Physiology and Behavior Program, Integrative Biology and Neuroscience Division, National Science Foundation, Arlington, Virginia, 1995-1996.

Professor of Psychology, The Johns Hopkins University, Baltimore, MD 1996-2000.

Professor of Neuroscience, The Johns Hopkins University, Baltimore, MD 1996-2000.

Professor of Biochemistry & Molecular Biology, Reproductive Biology Division, The Johns Hopkins University, School of Hygiene and Public Health, Baltimore, MD 1996-2000 (Joint appointment).

Program Director, Neuroendocrinology Program, Integrative Biology and Neuroscience Division, National Science Foundation, Arlington, Virginia, 1998.

Distinguished Professor of Social and Behavioral Sciences, The Ohio State University, Columbus, Ohio 2000-2009.

Professor of Psychology and Neuroscience, The Ohio State University, Columbus, Ohio; 2000-2018.

Co-Director, Neuroscience Graduate Studies Program, The Ohio State University, Columbus, Ohio; 2003-2009.

Member: Institute for Behavioral Medicine Research, The Ohio State University, Columbus, Ohio; 2004-2018.

Professor of Evolution, Ecology, and Organismal Biology, The Ohio State University, Columbus, Ohio; 2005-2015.

Visiting Scholar, Department of Psychology, University of California, San Diego; 2009-present.

Visiting Scientist, Laboratory of Genetics, Salk Institute, San Diego; 2009-present.

Chair, Department of Neuroscience, The Ohio State University, Columbus, Ohio; 2009-2018.

Brumbaugh Chair in Brain Research and Teaching, The Ohio State University, Columbus, Ohio; 2009-2018.

Distinguished Professor of the College of Medicine, The Ohio State University, Columbus, Ohio; 2012-2018.

Distinguished University Professor, The Ohio State University, Columbus, Ohio; 2013-2018.

Co-Director, Ohio State Neuroscience Research Institute, The Ohio State University, Columbus, Ohio; 2014-2018.

Faculty Lead, Brain Injury Discovery Theme, The Ohio State University, Columbus, Ohio; 2015-2018.

Professor and Chair of Neuroscience, West Virginia University, Morgantown, WV; 2018-present.

Hazel Ruby McQuain Chair for Neurological Research, West Virginia University, Morgantown, WV; 2018-present.

Executive Director of Foundational Research, Rockefeller Neuroscience Institute, West Virginia University, Morgantown, WV; 2018-present.

Director of Neuroscience Graduate Program, West Virginia University, Morgantown, WV; 2018-present.

Director of the West Virginia University Center for Foundational Neuroscience Research and Education, West Virginia University, Morgantown, WV; 2020-present.

HONORS AND AWARDS

Phi Beta Kappa, 1978

Psi Chi, 1978.

National Institute of Mental Health Pre-Doctoral Traineeship, 1981-1983.

Distinguished Teacher, Committee on Teaching of the Berkeley
Division of the Academic Senate, University of California, 1981-1982, 1982-1983.

National Institutes of Health Individual Post-Doctoral Fellowship, 1984-1986.

Sigma Xi, 1985.

NIH, James A. Shannon Award for Innovative Research, National Cancer Institute, 1992-1994.

Distinguished Professor of Social and Behavioral Sciences, 2000-2009.

Ohio State University Psychology Department Fred Brown Research Award, 2001-2002.

ALPCO/Buhlmann Distinguished Lectureship, Society for Light Treatment & Biological Rhythms, 2002.

Fellow, American Association for the Advancement of Science, Elected 2002.

J.P. Scott Memorial Distinguished Lectureship in Neuroscience, Bowling Green State University, 2004.

Accomplishment Based NSF Grant Renewal, "Photoperiodic effects on immune function." 2004-2009.

Fellow, American Psychological Association, Division 6, Elected 2005.

Fellow, Association for Psychological Science, Elected 2006.

Distinguished Scholar Award, Ohio State University, 2006.

Fellow, Animal Behavior Society, Elected 2006.

Ohio State University Psychology Department Fred Brown Research Award, 2007-2008.

Distinguished Lecturer, Ohio State University, 2008-2009.
"Faculty of 1000 Biology," Invited contributing Faculty Member (Neural homeostasis) (renamed to Faculty Opinions), 2008-present.
Nu Rho Psi Induction, 2010.
Alumni Distinguished Teaching Award, Ohio State University, 2009.
Ohio State University Academy of Teaching, 2009-2018.
President, Central Ohio Chapter of the Society for Neuroscience, 2006-2012.
Vice-President, US Midwest, National Nu Rho Psi Honor Society (Neuroscience Honor Society). 2012-2015.
Dr. John D. and E. Olive Brumbaugh Chair in Brain Research and Teaching, 2009-2018.
Distinguished Professor, College of Medicine, Ohio State University Medical Center, 2012-2018.
Distinguished University Professor, The Ohio State University, 2013-2018
Howard Bern Lecturer, Society for Integrative and Comparative Biology, West Palm Beach, FL, 2015.
Daniel Lehrman Lifetime Career Award, Society for Behavioral Neuroendocrinology, 2016.
Award for Education in Neuroscience, Society for Neuroscience, 2017.
American Psychological Association Neal Miller Distinguished Lecture, Washington, DC, 2020.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Association for the Advancement of Science, Fellow
American Psychological Association, Fellow
American Society of Mammalogists
Animal Behavior Society, Fellow
Association for Psychological Science, Fellow
Psychoneuroimmunology Research Society
Society for Behavioral Neuroendocrinology
 Co-organizer of first annual meeting
 Advisory Board 2004-2007
 Chair, Program Committee, 2006-2007
 Program Committee, 2007-2009
 Chair, Web Committee, 2009-2011
 Advisory Committee, 2011-present
Society for Neuroscience
Society for the Study of Biological Rhythms
Society for the Study of Reproduction
 Member of the Education Committee, 1982-1983; 1985-1986
 Chairperson of the Education Committee, 1986-1987
Member of the Membership Committee; 1990-1994.

PROFESIONAL SERVICE

Grant Application Reviewer:

Behavioral and Neurosciences Study Section, NIH, 1986-1987.
National Science Foundation (ad hoc reviewer), 1986-2008
National Science Foundation (Dissertation Improvement Panel), 2003.
NSF Site Visit Panelist, chair, 2002
 Study Panel Member, 1995-1997. Animal Behavior, NSF
 Animal Behavior Program Officer, NSF, 1996-1997.

Neuroendocrinology Program Officer, NSF, 1998-1999.
Study Panel Member 1995-1996. Minority Biomedical Research Support, Physiology Review Panel, NIGMS, NIH.
Study Panel Member 1998-1999. Psychopharmacology Review Panel, NIDA, NIH.
Study Panel Member, 2000-2001. IFCN-2, NIH.
Study Panel Ad hoc member, 2002-2003 BBBP-1, NIH
Study Panel Member, 2002-2003, NIH Special Emphasis Panel IFCN-1.
Study Panel Ad hoc member, 2005-2006, NIH BRS panel.
Study Panel Ad hoc member, 2006-2008, NIH, Chronic Fatigue Syndrome RFA panel.
Study Panel, Member, 2006-2009, NIH Neuroscience Blueprint Conte Center grant panel.
Study Panel, Member, 2007-2009, NIH Neurogenetics and Neurogenomics panel.
Study Panel Member, 2007, NIH Novel Genetic Tools to Study Brain Function panel
Study Panel Member, 2014-2018, NIH Conflict: Integrative Neuroscience panel
Study Panel Member, 2008-2009, NIH T32 Training Grants panel.
Medical Research Council (Great Britain), 2002-2003
NSF Neuroendocrinology Preproposal Panel, 2013-2015.
Guggenheim Foundation
Whitehall Foundation
Sloan Foundation
World Wildlife Fund
Burroughs-Wellcome Fund
Austrian Science Foundation (Förderung der wissenschaftlichen Forschung)
Natural Sciences and Engineering Research Council of Canada
Israel Science Foundation
Science Foundation Ireland
Biotechnology and Biological Sciences Research Council (UK)
Saskatchewan Health Research Foundation
US-Israel Binational Science Foundation
Spanish Ministry of Health Cooperative Research Networks
UK National Centre for the Replacement, Refinement and Reduction of Animals in Research
Ontario Mental Health Foundation
Wellcome Foundation
Swiss National Science Foundation

Editor:

Newsletter for the Society for the Study of Reproduction; 1986-1988.
Associate Editor: *Hormones and Behavior*; 2012-2018.
Associate Editor: *Journal of Experimental Zoology A: Ecological Genetics and Physiology*; 2014-2019.
Co-Editor in Chief: *Journal of Experimental Zoology A: Ecological Genetics and Physiology*; 2020-2021
Editor in Chief: *Journal of Experimental Zoology A: Ecological Genetics and Physiology*; 2021-

Editorial Board Memberships:

Journal of Pineal Research; 1998-2002.
Behavioral Neuroscience; 1997-2020.
Frontiers in Behavioral Neuroscience; 2007-2022.
Frontiers in Integrative Pharmacology; 2010-2014.
Brain, Behavior, and Immunity; 2007-2015.
Physiology & Behavior; 2008-2022.

International Journal of Zoology; 2008-2016.
Advanced Studies in Biology; 2008-2018.
Open Journal of Neuroendocrinology; 2008-2019.
Hormones and Behavior, 2012-2022.
Associate Editor, 2012-2017.
Journal of Biological Rhythms, 2014-2022.
Oxford Research Encyclopedia in Neuroscience, 2014-2022.
Journal of Experimental Zoology, 2013-2022.
Associate Editor, 2013-2020
Editor-in-Chief, 2021-2024

Advisory Boards:

Society for Behavioral Neuroendocrinology, 2001-2007; 2012-2021.
Program Committee Chair, 2006-2007.
Allyn & Bacon Publishers, Faculty Advisory Board, 2008-2009.
Neuroscience Advisory Committee, Center for Global Nonkilling, 2008-2019.
National Science Foundation, Advisory Committee, Biology Directorate, 2014-2018.
National Science Foundation, Alan T. Waterman Award Committee, 2014-2017.

BOOK SERIES EDITOR

Hormones, Brain and Behaviour Series. 2000-2008. Published by Springer-Verlag, New York. Gregory Ball, Jacques Balthazart, and Randy J. Nelson (co-editors).
Oxford Series in Behavioral Neuroendocrinology. 2009-present. Published by Oxford University Press, New York. Gregory Ball, Jacques Balthazart, and Randy J. Nelson (co-editors).
Handbook of Psychology. Biopsychology, Vol. 3. 2002. Wiley & Sons, New York. Michela Gallagher and Randy J. Nelson (co-editors).
Handbook of Psychology. Biopsychology and Neuroscience, Vol. 3. 2013. Wiley & Sons, New York. Randy J. Nelson and Sheri Mizumori (co-editors).
Encyclopedia of Animal Behavior. 2019. Second Edition. Elsevier Major Reference Works, Oxford, UK. Randy J. Nelson (Hormones and Behavior section editor).
Oxford Encyclopedia of Neuroscience. Neuroendocrine and Autonomic section. 2022. Oxford University Press, New York. Randy J. Nelson (Editor).

PUBLICATIONS

Journal Articles and Book Chapters

1. Carmichael, M.S., Nelson, R.J. & Zucker, I. 1981. Hamster activity and estrous cycles: Control by a single versus multiple circadian oscillator(s). *Proceedings of the National Academy of Sciences (USA)*, 78:7830-7834. doi:10.1073/pnas.78.12.7830. PMID: 6950423.
2. Nelson, R.J. & Zucker, I. 1981. Photoperiodic control of reproduction in olfactory-bulbectomized rats. *Neuroendocrinology*, 32:266-271. doi:10.1159/000123171. PMID: 7242854.
3. Nelson, R.J. & Zucker, I. 1981. Absence of extraocular photoreception in diurnal and nocturnal rodents exposed to direct sunlight. *Comparative Biochemistry and Physiology*, 69A:145-148. doi:10.1016/0300-9629(81)90651-4.

4. Nelson, R.J., Bamat, M.K. & Zucker, I. 1982. Photoperiodic regulation of testis function in rats: Mediation by a circadian mechanism. *Biology of Reproduction*, 26:329-335. doi:10.1095/biolreprod26.2.329. PMID: 7066459.
5. Beasley, L.J. & Nelson, R.J. 1982. Thyroid gland influences the period of hamster oscillations. *Experientia*, 38:870-871. doi:10.1007/BF01972325. PMID: 6809491.
6. Forger, N.G. & Nelson, R.J. 1983. Rhythms of barbiturate-induced sleep time in deer mice entrained to non-twenty-four hour photocycle. *Physiology and Behavior*, 31:379-383. doi:10.1016/0031-9384(83)90205-6. PMID: 6355008.
7. Nelson, R.J., Dark, J. & Zucker, I. 1983. Influence of photoperiod, nutrition and water availability on reproduction of male California voles (*Microtus californicus*). *Journal of Reproduction and Fertility*, 69:473-477. doi:10.1530/jrf.0.0690473. PMID: 6355461.
8. Heske, E.J. & Nelson, R.J. 1984. Pregnancy interruption in *Microtus ochrogaster*: Laboratory artifact or field phenomenon? *Biology of Reproduction*, 31:97-103. doi:10.1095/biolreprod31.1.97. PMID: 6380603.
9. Nelson, R.J., Fleming, A.S., Wysocki, C.J., Shinder, T.W. & Zucker, I. 1985. Chemosensory and neural influences on photoperiodic responsiveness of laboratory rats. *Neuroendocrinology*, 40: 285-290. doi:10.1159/000124088. PMID: 3990912.
10. Nelson, R.J. 1985. Photoperiod influences reproduction in the prairie vole, *Microtus ochrogaster*. *Biology of Reproduction*, 33:596-602. doi:10.1095/biolreprod33.3.596. PMID: 3902106.
11. Nelson, R.J. 1985. Photoperiodic regulation of reproductive development in male prairie voles: Influence of laboratory breeding. *Biology of Reproduction*, 33:418-422. doi:10.1095/biolreprod33.2.418. PMID: 3899205.
12. Smale, L., Nelson, R.J. & Zucker, I. 1985. Neuroendocrine responsiveness to oestradiol and male urine in the neonatally androgenized prairie vole (*Microtus ochrogaster*). *Journal of Reproduction and Fertility*, 74:491-496. doi:10.1530/jrf.0.0740491. PMID: 3900382.
13. Nelson, R.J., Mason, R.T., Krohmer, R.W. & Crews, D. 1987. Pinealectomy blocks vernal courtship behavior in red-sided garter snakes. *Physiology and Behavior*, 39:231-233. doi:10.1016/0031-9384(87)90014-x. PMID: 3575458.
14. Nelson, R.J. 1987. Photoperiod-nonresponsive morphs: A possible variable in microtine population density fluctuations. *American Naturalist*, 130:350-369. doi:0003-014718713003-00.
15. Nelson, R.J. & Desjardins, C. 1987. Water availability affects reproduction in deer mice. *Biology of Reproduction*, 37:257-260. doi:10.1095/biolreprod37.2.257. PMID: 3676383.
16. Nelson, R.J. & Zucker, I. 1987. Spontaneous testicular recrudescence of Syrian hamsters: Role of stimulatory photoperiods. *Physiology and Behavior*, 39:615-618. doi:10.1016/0031-9384(87)90161-2. PMID: 3588707.
17. Nelson, R.J. 1987. Gonadal regression induced by caloric restriction is not mediated by the pineal gland in deer mice (*Peromyscus maniculatus*). *Journal of Pineal Research*, 4:339-345. doi:10.1111/j.1600-079x.1987.tb00871.x. PMID: 3625465.
18. Rissman, E.R., Nelson, R.J., Blank, J.L. & Bronson, F.H. 1987. Reproductive response of a tropical mammal, the musk shrew (*Suncus murinus*), to photoperiod. *Journal of Reproduction & Fertility*, 81:563-566. doi:10.1530/jrf.0.0810563. PMID: 3430473.
19. Smale, L., Nelson, R.J. & Zucker, I. 1988. Daylength influences pelage and prolactin concentrations but not reproduction in the prairie vole, *Microtus ochrogaster*. *Journal of Reproduction and Fertility*, 83:99-106. doi:10.1530/jrf.0.0830099. PMID: 3294399.
20. Nelson, R.J. 1988. Restricted water intake influences male reproduction in two strains of house mice (*Mus musculus*). *Physiology & Behavior*, 43:217-221. doi:10.1016/0031-9384(88)90241-7. PMID: 3212059.
21. Blank, J.L., Nelson, R.J. & Buchberger, A. 1988. Cytochrome oxidase activity in brown fat varies with reproductive response and use of torpor in deer mice. *Physiology & Behavior*, 43:301-306. doi:10.1016/0031-9384(88)90191-6. PMID: 2845453.

22. Blank, J.L., Nelson, R.J., Vaughan, M.K. & Reiter, R.J. 1988. Pineal melatonin content in photoperiod-responsive and nonresponsive phenotypes of deer mice. *Comparative Biochemistry and Physiology*, 91A:535-537. doi:10.1016/0300-9629(88)90631-7. PMID: 2906835.
23. Crews, D., Hingorani, V. & Nelson, R.J. 1988. Role of the pineal gland in the control of annual reproductive and physiological cycles in the red-sided garter snake (*Thamnophis sirtalis parietalis*). *Journal of Biological Rhythms*, 3:293-302. doi:10.1177/074873048800300307.
24. Quinlan, D.M., Nelson, R.J., Partin, A.W., Mostwin, J.L. & Walsh, P.C. 1989. The rat as a model for the study of penile erection. *Journal of Urology*, 141:656-661. doi:10.1016/s0022-5347(17)40926-8. PMID: 2918611.
25. Nelson, R.J., Frank, D., Smale, L. & Willoughby, S.B. 1989. Photoperiod and temperature affect reproductive and nonreproductive functions in male prairie voles (*Microtus ochrogaster*). *Biology of Reproduction*, 40:481-485. doi:10.1095/biolreprod40.3.481. PMID: 2667648.
26. Gubernick, D. & Nelson, R.J. 1989. Prolactin and paternal behavior in a biparental Mouse (*Peromyscus californicus*). *Hormones and Behavior*, 23:203-210. doi:10.1016/0018-506X(89)90061-5. PMID: 2744739.
27. Nelson, R.J., Frank, D., Bennett, S.A. & Carter, C.S. 1989. Simulated drought influences reproduction in male prairie voles. *Physiology & Behavior*, 46: 849-852. doi:10.1016/0031-9384(89)90047-4. PMID: 2697880.
28. Smale, L., Lee, T.M., Nelson, R.J. & Zucker, I. 1990. Prolactin counteracts effects of short day length on pelage growth in the meadow vole, *Microtus pennsylvanicus*. *Journal of Experimental Zoology*, 253:186-188. doi:10.1002/jez.1402530208. PMID: 2179462.
29. Nelson, R.J., Badura, L. & Goldman, B.D. 1990. Mechanisms of seasonal cycles of behavior. *Annual Review of Psychology*, 41:81-108. doi: 10.1146/annurevs.ps.41.020190.000501. PMID: 2407180.
30. Nelson, R.J. & Shiber, J.R. 1990. Photoperiod affects reproductive responsiveness to 6-methoxy-2-benzoxazolinone in house mice. *Biology of Reproduction*, 43:586-591. doi:10.1095/biolreprod43.4.586. PMID: 2289012.
31. Nelson, R.J. 1990. Photoperiodic responsiveness in laboratory house mice. *Physiology & Behavior*, 48:403-408. doi:10.1016/0031-9384(90)90335-2. PMID: 2267249.
32. Moffatt, C.A., Bennett, S.A. & Nelson, R.J. 1991. Effects of photoperiod and 6-methoxy-2-benzoxazolinone on induced estrus in prairie voles. *Physiology & Behavior*, 49:27-31. doi:10.1016/0031-9384(91)90225-d. PMID: 2017478.
33. Quinlan, D.M., Nelson, R.J. & Walsh, P.C. 1991. Cavernous nerve grafts restore erectile function in a rat model. *Journal of Urology*, 145:380-383 doi:10.1038/ijir.2014.32. PMID: 1988738.
34. Burgers, J.K., Nelson, R.J., Quinlan, P.C. & Walsh, P.C. 1991. Nerve growth factor, nerve grafts and amniotic membrane grafts restore erectile function in rats. *Journal of Urology*, 146:463-468. doi: 10.1016/s0022-5347(17)37825-4. PMID: 1856953.
35. Nelson, R.J. 1991. Maternal diet influences reproductive development in male prairie vole offspring. *Physiology & Behavior*, 50:1063-1066. doi: 10.1016/0031-9384(91)90438-t. PMID: 1805270.
36. Nelson, R.J., Kita, M., Blom, J.M.C. & Rhyne-Grey, J. 1992. Photoperiod influences the critical caloric intake necessary to maintain reproduction among male deer mice (*Peromyscus maniculatus*). *Biology of Reproduction*, 46:226-232. doi: 10.1095/biolreprod46.2.226. PMID: 1536898.
37. Moffatt, C.A. & Nelson, R.J. 1992. May/December romance: Adaptive significance *non probabilis est*. *Behavioral and Brain Sciences*, 15:106-107. doi:1017/S0140525X00067753.
38. Ruby, N.F., Nelson, R.J., Licht, P. & Zucker, I. 1993. Prolactin and testosterone inhibit torpor in Siberian hamsters. *American Journal of Physiology*, 264:R123-R128. doi:10.1152/ajpregu.1993.264.1.R123. PMID: 8430873.

39. Goldman, B.D. & Nelson, R.J. 1993. Melatonin and seasonality in mammals. In: *Melatonin: Biosynthesis, Physiological Effects and Clinical Applications*. H.S. Yu & R.J. Reiter (Eds), CRC Press:New York, pp. 225-252.
40. Nelson, R.J. 1993. The effects of simulated drought on reproductive function of deer mice (*Peromyscus maniculatus bairdii*). *Physiological Zoology*, 66:99-114. doi:0031-935X/93/6601-9229\$02.00.
41. Calhoun, S., Hulse, S.H., Braaten, R.F., Page, S.C. & Nelson, R.J. 1993. Preference for conspecific and alien song by canaries (*Serinus canaria*) and European starlings (*Sturnus vulgaris*) as a function of photoperiod. *Journal of Comparative Psychology*, 107:235-241. doi:10.1037/0735-7036.107.3.235.
42. Nelson, R.J. & Blom, J.M.C. 1992. 6-Methoxy-2-benzoxazolinone and photoperiod: Prenatal and postnatal influences on reproductive development in prairie voles (*Microtus ochrogaster*). *Canadian Journal of Zoology*, 71:776-789. doi:10.1139/z93-103.
43. Gorman, M.R., Ferkin, M.H., Nelson, R.J. & Zucker, I. 1993. Reproductive status influences odour preferences of the meadow vole, *Microtus pennsylvanicus*, in winter day lengths. *Canadian Journal of Zoology*, 71:1748-1754. doi:10.1139/z93-248.
44. Moffatt, C.A., DeVries, A.C. & Nelson, R.J. 1993. Winter adaptations of male deer mice (*Peromyscus maniculatus*) and prairie voles (*Microtus ochrogaster*) that vary in reproductive responsiveness to photoperiod. *Journal of Biological Rhythms*, 8:221-232. doi:10.1177/074873049300800305. PMID: 8280911.
45. Moffatt, C.A. & Nelson, R.J. 1994. Day length influences proceptive behavior of female prairie voles (*Microtus ochrogaster ochrogaster*). *Physiology & Behavior*, 55:1163-1165. doi:10.1016/0031-9384(94)90405-7. PMID: 8047587.
46. O'Hara, B.F., Donovan, D.M., Lindberg, I., Brannock, M.T., Ricker, D.D., Moffatt, C.A., Klaunberg, B.A., Schindler, C., Chang, T.S.K., Nelson, R.J. & Uhl, G.R. 1994. Proenkephalin transgenic mice: A short promoter confers high testis expression and reduced infertility. *Molecular Reproduction and Development*, 38:275-284. doi:10.1002/mrd.1080380308. PMID: 7917279.
47. Blom, J.M.C., Gerber, J. & Nelson, R.J. 1994. Day length affects immune cell numbers in deer mice: interactions with age, sex, and prenatal photoperiod. *American Journal of Physiology*, 267: R596-R601. doi:10.1152/ajpregu.1994.267.2.R596. PMID: 8067473.
48. Nelson, R.J., Moffatt, C.A. & Goldman, B.D. 1994. Reproductive and nonreproductive responsiveness to photoperiod in laboratory rats function in male rats. *Journal of Pineal Research*, 17:123-131. doi:10.1111/j.1600-079x.1994.tb00123.x. PMID: 7897584.
49. Nelson, R.J., & Blom, J.M.C. 1994. Photoperiodic effects on tumor development and immune function. *Journal of Biological Rhythms*, 9:233-249. doi:10.1177/074873049400900305. PMID: 7772792.
50. Moffatt, C.A., Nelson, R.J. & Ball, G.F. 1995. The effects of photoperiod on olfactory c-fos expression in prairie voles, *Microtus ochrogaster*. *Brain Research*, 677:82-88. doi:10.1016/0006-8993(95)00125-a. PMID: 7606471.
51. Nelson, R.J., Gubernick, D.J. & Blom, J.M.C. 1995. Influences of photoperiod, green food, and water intake on reproduction in male California mice (*Peromyscus californicus*). *Physiology & Behavior*, 57:1175-1180. doi:10.1016/0031-9384(94)00380-n. PMID: 7652040.
52. Blom, J.M.C., Tamarkin, L., Shiber, J.R. & Nelson, R.J. 1995. Learned immunosuppression is associated with an increased risk of chemically-induced tumors. *Neuroimmunomodulation*, 2:92-99. doi:10.1159/000096877. PMID: 8521145.
53. Moffatt, C.A., Gerber, J.M., Blom, J.M.C., Kriegsfeld, L.J. & Nelson, R.J. 1995. Photoperiodic effects on steroid negative-feedback in female prairie voles (*Microtus ochrogaster*). *General and Comparative Endocrinology*, 100:92-95. doi:10.1006/gcen.1995.1137. PMID: 8575664.

54. Nelson, R.J., Demas, G.E., Huang, P., Fishman, M.C., Dawson, V., Dawson, T.M. & Snyder, S.H. 1995. Behavioural abnormalities in male mice lacking neuronal nitric oxide synthase. *Nature*, 378:383-386. doi:10.1038/378383a0. PMID: 7477374.
55. Nelson, R.J., Demas, G.E., Klein, S.L. & Kriegsfeld, L.J. 1995. The influence of season, photoperiod, and pineal melatonin on immune function. *Journal of Pineal Research*, 19:149-165. doi:10.1111/j.1600-079x.1995.tb00184.x. PMID: 8789246.
56. Nelson, R.J., Fine, J.M., Demas, G.E. & Moffatt, C.A. 1996. Photoperiod and population density interact to affect reproductive, adrenal, and immune function in male prairie voles (*Microtus ochrogaster*). *American Journal of Physiology*, 270:R571-577. doi:10.1152/ajpregu/1996.270.3.R571. PMID: 8780222.
57. Nelson, R.J., DeVries, A.C., Asfaw, B. & Demas, G.E. 1996. Influence of photoperiod on corticosterone levels and immune function in prairie voles, *Microtus ochrogaster*. *Canadian Journal of Zoology*, 74:576-581. doi:10.1152/ajpregu.1996.270.3.R571. PMID: 8780222.
58. Kriegsfeld, L.J. & Nelson, R.J. 1996. Gonadal and photo periodic influences on body mass regulation in adult male and female prairie voles. *American Journal of Physiology*, 270:R1013-R1018. doi:10.1152/ajpregu.1996.270.R1013. PMID: 8928899.
59. Demas, G.E. & Nelson, R.J. 1996. Photoperiod and temperature interact to affect immune parameters in adult male deer mice (*Peromyscus maniculatus*). *Journal of Biological Rhythms*, 11:94-102. doi:10.1177/074873049601100202. PMID: 8744237.
60. Burnett, A.L., Nelson, R.J., Calvin, D., Demas, G.E., Klein, S.L., Kriegsfeld, Dawson, T.M. & Snyder, S.H. 1996. Nitric oxide-dependent penile erection in mice lacking neural nitric oxide synthase. *Molecular Medicine*, 2:288-296. doi:10.1007/BF03401627. PMID: 8784782
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- Nelson, R.J. & Kriegsfeld, L.J. 2017. *An Introduction to Behavioral Endocrinology*. Fifth Edition. Sinauer Associates, An imprint of Oxford University Press: Sunderland, MA.
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Nelson, R.J. & Weil, Z.M. (Editors). 2022. *Biographical History of Behavioral Neuroendocrinology*. Springer Nature, New York (In press).

BOOK REVIEWS

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Nelson, R.J. 1995. The chosen primate: Human nature and cultural diversity. *Journal of Nervous and Mental Disease*, 183:491.

Nelson, R.J. 2006. Introduction to psychoneuroimmunology. *Physiology and Behavior*, 87:219.

Nelson, R.J. 2006. Hormones and social behavior. *Bioscience*, 56, 2-4.

INVITED TALKS

1984. Department of Zoology, University of Texas, Austin, TX.
Department of Structural & Cellular Biology, University of Texas Health Sciences Center, San Antonio, TX.
Department of Psychology, Johns Hopkins University, Baltimore, MD.
Worcester Foundation for Experimental Biology, Shrewsbury, MA.

1985. Department of Psychology, University of California, Berkeley, CA.
Department of Zoology, University of Maryland, College Park, MD.
Department of Zoology, University of Texas, Austin, TX.

1986. Department of Psychology, Group in Neurosciences, Michigan State University, East Lansing, MI.
Department of Ethology, Evolution, and Ecology, University of Illinois, Champaign, IL.
Department of Biology, Hiram College, Hiram, OH.

1987. Department of Physiology & Neurobiology, University of Connecticut, Storrs, CT.
Department of Biological Sciences, University of Cincinnati, Cincinnati, OH.

1988. Department of Biological Sciences, Life Sciences Section, University of Delaware, Newark, DE.
Department of Population Dynamics, Johns Hopkins School of Hygiene, Baltimore, MD.

1989. Department of Psychology, Indiana University, Bloomington, IN.
Department of Physiology, Northwestern University, Evanston, IL.

1990. Department of Psychology, Yale University, New Haven, CT.
Department of Psychiatry, SUNY, Stony Brook, NY.
Department of Urology, Johns Hopkins Hospital, Baltimore, MD.

1991. Department of Psychology, University of California, Santa Barbara, CA.
 Department of Psychology, University of Pennsylvania, Philadelphia, PA.
 Department of Zoology, University of Maryland, College Park, MD.
 Department of Psychology, University of Maryland, Catonsville, MD.
 Department of Psychology, Villanova University, Villanova, PA.
1992. Department of Psychology, University of California, Berkeley, CA.
 Department of Integrative Biology, University of California, Berkeley, CA.
 National Institute on Aging, Bethesda, MD.
 Workshop Speaker, Biennial Meeting of the Society for Research on Biological Rhythms, Amelia Island, FL.
1993. Department of Neuroscience & Anatomy, Pennsylvania State University College of Medicine, Hershey, PA
 National Aeronautical and Space Administration, Goddard Space Flight Center, Greenbelt, MD.
 Department of Oncology, Johns Hopkins Hospital, Baltimore, MD.
1994. Department of Psychology, University of Maryland, Catonsville, MD.
1995. Symposium: Biological Bases of Sex Behavior. American Psychological Association Annual Meeting. New York, NY.
 Invited Address. American Psychological Association Annual Meeting. New York, NY.
 Sponsor, Northeast Sleep Society Annual Meeting, Baltimore, MD.
 Biological Sciences Program, National Science Foundation, Arlington, VA.
 Department of Psychology, Concordia University, Montreal, Quebec.
 Population Center, School of Hygiene and Public Health, Johns Hopkins University, Baltimore, MD.
1996. Invited speaker: International Conference on Hormones, Brain, and Behaviour. Turin, Italy.
 Department of Biology and Biological Timing Center, University of Virginia, Charlottesville, VA.
 Symposium speaker: Society of Integrative and Comparative Biology, Albuquerque, NM.
 Invited speaker: American Behavioral Genetics Annual meeting, Pittsburgh, PA.
 Invited speaker: Biology and Sociology of Violence meeting, Valencia, Spain.
 NIH Director's Colloquium Series, National Institutes of Health, Bethesda, MD.
 Jackson Laboratory, Bar Harbor, ME.
 Invited Speaker: Program Director Seminar Series. National Science Foundation, Arlington, VA.
 NIMH Neuroscience Workshop on Use of Transgenics in Neuroscience, Washington, DC.
1997. Department of Neuroscience, University of Michigan, Ann Arbor, MI.
 Department of Biology, Johns Hopkins University, Baltimore, MD.
 Animal Behavior Program, University of California, Davis, CA.
 Neuroendocrine-Immune Workshop, NICHD, Bethesda, MD.
 Department of Integrative Biology, University of California, Berkeley, CA.
 Department of Zoology, University of Maryland, College Park, MD.
 Department of Neurology, Johns Hopkins University, Baltimore, MD.
 Mid-Atlantic Reproductive Biology Meeting, Georgetown University, Washington, DC.
 Department of Comparative Medicine, Johns Hopkins University, Baltimore, MD
 Cold Spring Harbor Course on Mouse Behavioral Analyses, Cold Spring Harbor, NY.

Department of Psychiatry, Johns Hopkins University, Baltimore, MD.

1998. Gordon Conference on Melatonin, Los Angeles, CA.
Department of Zoology, North Carolina State University, Raleigh, NC
Department of Biology, University of South Carolina, SC
Symposium Speaker, American Veterinary Medical Association Annual Meeting, Baltimore, MD.
Center for Integrative Studies in Animal Behavior, Indiana University, Bloomington, IN.
Wilmer Eye Institute, Johns Hopkins University, Baltimore, MD.
Faculty Speaker in NIH-Sponsored Workshop on Psychoneuroimmunology, Kansas City, MO.
Department of Biological Sciences, Lehigh University, Lehigh, PA.
Conference on Environmental Toxicity Meeting, Rochester University, Invited Speaker.
Keynote Speaker: Society for the Study of Behavioural Phenotypes, 5th International Symposium. Johns Hopkins University, Baltimore, MD
Symposium Speaker and Chair, Society for Neuroscience Annual Meeting, Los Angeles, CA.
1999. Department of Toxicology, Johns Hopkins University, Baltimore, MD.
Department of Psychology, University of Wisconsin, Madison, WI.
Department of Zoology, University of Wisconsin, Madison, WI.
Department of Neurobiology, Northwestern University, Evanston, IL.
Symposium on Emotions, Rutgers University, New Brunswick, NJ.
Workshop Speaker, Behavior in the Mouse. NIH, Bethesda, MD.
Symposium Speaker, International Conference on Pineal Gland, Tours, France
Symposium Speaker, International Conference on Psychoneuroimmunology, Lucano, CH.
Department of Immunology and Molecular Microbiology, Johns Hopkins University, Baltimore, MD.
Department of Psychology, Ohio State University, Columbus, OH.
Department of Neuroscience, Ohio State University, Columbus, OH.
Department of Reproductive Pharmacology, Merck Pharmaceutical Research Campus, Rahway, NJ.
2000. Department of Neuroscience, Pennsylvania State University School of Medicine, Hershey, PA.
Symposium Speaker, Biennial Conference for the Society for the Study of Biological Rhythms, Amelia Island, FL.
Department of Neuroscience, Ohio State University, Columbus, OH.
Symposium Chair, Society for Neuroscience Meeting, New Orleans, LA
2001. Department of Neuroscience, Michigan State University, East Lansing, MI.
Department of Zoology, Michigan State University, East Lansing, MI.
Department of EEB, Princeton University, Princeton, NJ.
Department of Pharmacology, Ohio State University, Columbus, OH.
Department of Ecology & Evolutionary Biology, Ohio State University, Columbus, OH.
Symposium Speaker, FASEB Annual Meeting, Orlando, FL
Department of Psychology, Wright State University, Dayton, OH.
2002. Department of Biology, University of Utah, Salt Lake City, UT.
Graduate Group in Ecology, University of Utah, Salt Lake City, UT.
Department of Neuroscience, University of Cincinnati, Cincinnati, OH.
ALPCO/Buhlmann Distinguished Lectureship; 2002 Meeting of the Society for Light

Treatment and Biological Rhythms, San Diego, CA.
Department of Psychology, University of Chicago, Chicago, IL.
Neuroscience Institute, University of Vienna, Vienna, Austria.
Zoology Department, University of Vienna, Vienna, Austria.
Department of Biology, Murray State University, Murray, KY.

2003. UK Genetics Society, University of Warwick, UK
World Congress of Chronobiology, Sapporo, Japan
Department of Biology, Animal Behavior Group, University of California, Davis, CA.
Department of Psychology, University of California, Berkeley, CA.
Canadian College of Neuropsychopharmacology, Montreal, QB.
Department of Behavioral Neuroscience, Oregon Health Sciences University, Portland, OR.
Workshop Speaker, Charles River Workshop on Reproduction, Boston, MA.
Symposium Speaker, Society for Behavioral Neuroendocrinology, Cincinnati, OH.
2004. Department of Integrative Biology, University of Texas, Austin, TX.
Institute of Reproductive Biology, University of Texas, Austin, TX.
Workshop Speaker, National Academies of Science, Washington DC
Novartis Foundation, London, UK
Royal Society of London, London, UK
International Colloquium on the Brain and Aggression, Rhodes, Greece
Department of Psychology, Bowling Green State University, Bowling Green, OH
2005. Winter College, Ohio State University, Ft Meyers, FL.
Department of Oral Biology, Ohio State University, Columbus, OH.
Departments of Psychology and Neuroscience, Michigan State University, East Lansing, MI.
Department of Biology, Kent State University, Kent, OH.
Department of Psychology, Oberlin College, Oberlin, OH.
Division of Biological Sciences, Ohio State University, Columbus, OH
2006. Symposium Speaker, Society for Behavioral Neuroendocrinology, Pittsburgh, PA
Symposium Chair, Society for Behavioral Neuroendocrinology, Pittsburgh, PA
Brain and Cognition, Barcelona, Spain
Department of Biology, Tufts University, Medford, MA.
Central Ohio Society for Bipolar Disorder, Columbus, OH
Department of Biology, College of Wooster, Wooster, OH
Featured Speaker, Bennett Society, Ohio State, Columbus, OH
2007. Symposium Speaker, American Psychiatric Association Annual Meeting, San Diego, CA.
Keynote Speaker, Animal Behaviour Society Annual Meeting, Burlington, VT
Symposium Chair, Society for Behavioral Neuroendocrinology Annual Meeting, Asilomar, CA.
Workshop Speaker, Society for Behavioral Neuroendocrinology Annual Meeting, Asilomar, CA.
National Science Foundation, Integrative and Organismal Systems, Arlington, VA.
Invited Speaker, Institute of Wildlife Ecology. University of Veterinary Medicine, Vienna, Austria
2008. Colloquium Speaker, University of Massachusetts
Seminar Speaker, University of California, Berkeley

- Symposium Speaker, American Association for Geriatric Psychiatry Annual Meeting, Orlando, FL
 Colloquium Speaker, University of Rochester
 Workshop Speaker, NIMH Workshop on Biological Rhythms and Behavior, Bethesda, MD
 Seminar Speaker, Nationwide Children's Hospital, Columbus, OH
 Colloquium Speaker, University of British Columbia, Vancouver, BC.
 Symposium Speaker, Scientists Center for Animal Welfare Winter Conference, San Antonio, TX
 Colloquium Speaker, Department of Neuroscience, Ohio State University, Columbus, OH.
2009. Colloquium Speaker, Vanderbilt University
 Symposium Speaker, American Psychiatric Association Annual Meeting, Honolulu, HI
 (cancelled by OSU Departmental administrators)
 Seminar Speaker, Department of Neuroscience, Ohio State University
 Symposium Speaker, XI. Congress of the European Biological Rhythms Society, Strasbourg, France.
 Symposium Speaker, Third International Congress of Applied Chronobiology and Chronomedicine. Haifa, Israel.
 Symposium Chair, Third International Congress of Applied Chronobiology and Chronomedicine. Haifa, Israel.
 Keynote Speaker, Central Ohio Regional Undergraduate Neuroscience Meeting, Ohio Wesleyan University. Delaware, OH
 Distinguished Lecture, Ohio State University
 Colloquium Speaker, University of Illinois
2010. Symposium Speaker, American Psychiatric Association Annual Meeting, New Orleans, LA.
 Keynote Speaker, Inaugural Symposium of Biological Clocks, UCSD Center for Chronobiology, UC San Diego.
 Keynote Speaker, Israeli Center for Chronobiology
 Colloquium Speaker, Texas A&M University
 Colloquium Speaker, Yale University
 Workshop Speaker, Ellison Medical Foundation, Palo Alto, CA
 Seminar Speaker, Johnson & Johnson Research, La Jolla, CA
 Grand Rounds Speaker, Department of Pulmonary Medicine, Ohio State
2011. Colloquium Speaker, Department of Pharmacology & Toxicology, Wright State University.
 Colloquium Speaker, Department of Physiology, Emory University.
 Symposium Speaker, Ohio State Sleep Meeting.
 Colloquium Speaker, Center for Obesity Research, University of Alabama, Birmingham.
 Colloquium Speaker, Department of Zoology, Miami University.
 TED speaker, COSI, Columbus, OH
 Grand Rounds, Department of Neurology, Ohio State University
2012. Keynote speaker, University of Luxembourg, Luxembourg.
 Symposium Chair and speaker, Society for Behavioral Neuroendocrinology, Madison, WI
 Symposium speaker, Biological Psychiatry Association Annual Meeting, Philadelphia, PA
 Colloquium Speaker, Duke University
 Colloquium Speaker, University of Memphis
 Grand Rounds, Department of Psychiatry, Ohio State University

2013. Colloquium Speaker, Institute for Behavioral Medicine Research, Ohio State University.
 Keynote Speaker, Kent State University Neuroscience Symposium.
 Workshop Speaker, Society for Behavioral Neuroendocrinology, Atlanta, GA
 Workshop Speaker, Clinical Relevance of Circadian Rhythms, Lorentz Center, Leiden Netherlands
 Symposium Chair and Speaker, Midwest Biological Rhythms Meeting, Michigan State University
 Keynote Speaker, Seasonality and Health, Glasgow, Scotland.
 Colloquium Speaker, Columbia University, New York, NY
 Seminar Speaker, Barnard College, New York, NY
2014. Workshop Speaker, University of Toronto, School of Public Health, Toronto, ON.
 Workshop Speaker, Brain and Heart Workshop, Ohio State University, Brain and Spine Institute.
 Symposium Speaker, International Behavioral Neuroscience Society, Las Vegas, NV.
 Colloquium Speaker, Case Western Reserve University, Cleveland, OH
 Colloquium Speaker, University of California, Berkeley.
 Seminar Speaker, University of California, Berkeley.
 Seminar Speaker, College of Wooster, Wooster, OH.
 Colloquium Speaker, University of Houston, Houston TX.
 Speaker, Ground Rounds, Endocrinology Division, Ohio State Medical Center
 Speaker, Ground Rounds, Pulmonary Medicine Division, Ohio State Medical Center
 Featured Speaker, National Science Writers Meeting.
 Speaker, Grand Rounds, Endocrinology and Neuroscience, University of Chicago.
2015. Howard Bern Lecturer, Society for Integrative and Comparative Biology, W.Palm Beach, FL.
 Colloquium Speaker, Department of Biology, North Dakota State University, Fargo.
 Seminar Speaker, Ohio University, College of Osteopathic Medicine, Athens, OH.
 Symposium Speaker, FASEB Research Conference, Lisbon, Portugal.
 Keynote Speaker, North American Society for Comparative Endocrinology, Ottawa, Canada.
 Featured Speaker, Society for Behavioral Neuroendocrinology, Asilomar, CA
 Keynote Speaker, Central Ohio Regional Undergraduate Neuroscience Meeting, Ohio State University. Columbus, OH.
2016. Seminar speaker, University of Cincinnati.
 Workshop speaker, NIEHS workshop, Research Triangle Park, NC.
 Seminar speaker, University of California, Davis.
 Seminar speaker, Florida Atlantic University.
 Speaker, Global Brain Health and Performance Summit, Columbus, OH.
 Seminar speaker, University of Southern California, Los Angeles, CA.
 Featured speaker, Society for Behavioral Neuroendocrinology, Montreal, ON
 Seminar speaker, University of Oklahoma Medical Center.
2017. Seminar speaker, Case Western Reserve University, Cleveland, OH.
 Workshop speaker, NSF, Arlington, VA.
 Seminar speaker, College of Dentistry, Ohio State University, Columbus, OH.
 Distinguished Scientist Lecture, University of Buffalo, Buffalo, NY.
 Seminar speaker, San Diego State University, San Diego, CA.

2018. Seminar speaker, Virginia Commonwealth University, Richmond, VA.
 Seminar speaker, University of Tennessee, Knoxville, TN.
 Seminar speaker, West Virginia University, Morgantown, WV.
 Symposium speaker, Society for Behavioral Neuroendocrinology Annual Meeting, Toronto, Ontario, CA.
 Symposium speaker, International Society for Psychoneuroendocrinology Annual Meeting, Irvine, CA.
 Seminar speaker, Virginia Tech University, Blacksburg, VA.
 Seminar speaker, University of Michigan, Ann Arbor, MI.
2019. Seminar speaker, University of North Texas, Ft. Worth, TX.
 Seminar speaker, West Virginia University, Morgantown, WV.
 Grand rounds, Neurosurgery, West Virginia University, Morgantown, WV.
 Seminar speaker, Tulane University, New Orleans, LA.
 Seminar speaker, University of Illinois, Urbana/Champagne, IL.
 Seminar speaker, Marquette University, Milwaukee, WI.
 Seminar speaker, University of Texas, Austin, TX.
2020. Seminar speaker, Notre Dame, South Bend, IN.
 Neil Miller Lecturer, American Psychological Association, Washington, DC.
2021. Seminar speaker, Sleep Medicine, West Virginia University, Morgantown, WV.
 Seminar speaker, Pacific Northwest Research Institute, Seattle, WA.
 University of Texas, San Antonio Health Science Center, San Antonio, TX. (cancelled)
 Colloquium speaker, Fresno State University
2022. Workshop speaker, Cook County Parks, Chicago, IL
 Seminar speaker, Neurocritical Care/Department of Neurology, West Virginia University.

GRANTS

- 1986-1988. BRSR grant RR07041. "Behavioral endocrinology of seasonal reproduction (\$15,000).
- 1987-1997. NICHD grant R01 HD 22201. "Environment, reproduction, and behavior in rodents."
 Total costs: \$2,767,150.
- 1988-1990. BRSR grant RR 07041."Demonstration of photoperiodic responsiveness in nonphotoperiodic rodents" (\$11,000).
- 1988-1990. Sloan Foundation Grant. "Population cycles in rodents" (\$20,000).
- 1988-1990. BRSR grant RR 07041. "Etiology of tumorigenesis in response to environmental factors." (\$14,000).
- 1988-1989. NINCDS Small Instrumental Grant Program (\$13,516).
- 1992-1995. NCI grant CA 58168. "Conditioned immune function and cancer risk" (\$100,000 TDC).

1990-2001. NICHD grant P30 HD 06268. "Hopkins Population Center". (Center Associate) (\$1,980,115).

1992-2002. NIMH grant T32 MH 15330. "Interdisciplinary training in psychiatry and neuroscience". (Preceptor) (\$180,577).

1996-1997. NSF grant IBN 96-38301. "Animal Behavior Program" (\$50,353).

1997-2000. NSF grant IBN 97-23420. "Photoperiodic effects on immune function." Total costs: \$233,559.

2000-2004. NSF grant IBN 00-08454. "Photoperiodic effects on immune function." Total costs: \$358,831.

1998-2004. NIMH grant MH 57760. "Role of neuronal nitric oxide synthase in aggression." Total costs: \$809,977.

1997-2003. NIH program project grant, "Mechanisms of Regulation of Cerebral Blood Flow". Project PI and Core Director. Total costs= \$6,122,807. Biobehavioral core annual direct costs = \$55,000.

1997-2007. NIMH grant R01 MH 57535. "Environment, reproduction, and behavior in rodents." Total costs (2002-2007): \$1,733,125.

2002-2005. Seed grant, "Photoperiodic effects on wound healing". Project PI and Core Director. Total costs= \$25,000.

2003-2008. NIMH grant R01 MH 66144. "Photoperiod, melatonin, and sickness behaviors". Total costs = \$1,184,000.

2004-2009. NSF grant IOS 04-16897. "Photoperiodic effects on immune function." Accomplishment Based Renewal. Total costs: \$600,020. (No cost extension).

2008-2012. NSF grant IOS-08-38098 . "Perinatal Photoperiodic Programming of Adult Immune Function". Total costs: \$427,059.

2008-2013. NIH grant R01 MH 57535. "Photoperiod, Brain, and Behavior" (title change from: Environment, Reproduction, and Behavior in Rodents). Total costs (2008-2013): \$1,652,313.

2006-2010. US-Israel Binational Science Foundation. GRT00004322. "Light-induced immune dysfunction". Total costs = \$247,222.

2010-2015. NINDS grant P30NS0457558. "Neuroscience Center Phenotyping Core." Core Director. Total costs: \$3,740,000. (Core budget= \$100,000/year).

2008-2013, NINR R01NR10806 ; NIH/NINR, PI= A.C. DeVries; CoI = RJ Nelson: Title: Psychosocial Influences on Nociception. Total costs = \$1,652,000.

2011-2016, NIMH grant R01MH046801. "Repeated social defeat and prolonged anxiety". PI=John Sheridan, CoI=RJ Nelson. Total costs= \$1,835,544. Effort =5%.

2010-2015, NIAAD grant R01AI. “Stress effects on virus protein induced inflammation and sickness behavior; PI=Ronald Glaser, CoI-RJ Nelson. Total costs: \$2,356,941 (\$3,546,401); Effort=10%.

2011-2016, NSF grant IOS 11-2011-2016. “Effects of light at night on immune function”. PI= RJ Nelson. Total costs=\$750,000. Effort = 15%. (no cost extension)

2015-2018, NIH grant ES015146-05. “Air pollution and hypertension: vascular mechanisms”. PI= Rajagapolan, S; CoI=RJ Nelson. Total costs= \$224,000. Effort = 10%.

2014-2017, NSF grant IOS13-54612. “Circadian clock hierarch and cognition.” PI= Obrietan, J.; CoI=Nelson, RJ. Total Costs=\$600,000. Effort 5%.

2015-2017, NIH grant R21CA191846. “The effects of chemotherapy on sleep”. PI = Nelson, RJ. Total Costs=\$368,000. Effort 10%.

2016-2018, NIH grant R21CA202745. “Dim light at night alters pancreatic cell signaling and predisposes to pancreatic adenocarcinoma”. PI=Nelson, RJ. Total Costs=\$349,000. Effort 10%.

2015-2018, Ohio State University Discovery Theme Award for Chronic Brain Injuries. Faculty Lead= Nelson, RJ. Total costs = \$50 million. Effort 15%.

2014-2019, NIH grant MH103361. R01 MH10336. “Hippocampal cellular rhythms”. PI=K. Obrietan; CoI=RJ Nelson. Total Costs=\$1,320,000. Effort =10%.

2015-2020, NIH grant NS092388 “Adverse consequences of light at night for cerebral ischemia”. PI = Nelson, RJ; PI =DeVries AC) Total Costs = \$1,987,815. Effort =20%.

2020-2021, NIH grant NS092388 “Administrative supplement for Alzheimer’s related research: Adverse consequences of light at night for cerebral ischemia”. PI = Nelson, RJ; PI =DeVries AC) Total Costs = \$375,250. Effort =10%.

2021-2023, NIH grant R21AT011238 “Effects of light at night and disrupted circadian rhythms on pain. PI = Nelson, RJ). Total Costs ==\$368,000. Effort 15%.

PATENTS

1. Bedrosian TA, Weil ZM, & Nelson RJ. Light at night and depression. U.S. Provisional Patent Application No. 61/585,453; Filed January 11, 2012.
2. Bedrosian TA, Weil ZM, & Nelson RJ. Dim light at night provokes depression-like behaviors and reduces ca1 dendritic spine density in female hamsters. U.S. Provisional Patent Application No. 61/585,461; Filed January 11, 2012.
3. Rezai, A., Weil, Z.M. & Nelson, R.J. Neuromodulation of the sympathetic nervous system to treat circadian dysfunction, sleep/wake cycle and sleep disorders. U.S. Provisional Patent Application No. OSU-020974 filed in September 2012.

4. Rezai, A., Nelson, R.J., & Weil, ZM. Systems and methods for treating post-traumatic stress disorder. US patent #10076666. Issued 18 September 2018.
5. Rezai, A., Nelson, R.J., & Weil, ZM. Systems for treating post-traumatic stress disorder. US patent #10065037. Issued 18 September 2018.

RESEARCH INTERESTS

Integrative and Systems Neuroscience	Behavioral Neuroendocrinology
Seasonal Behavior	Psychoneuroimmunology
Neuroendocrinology	Comparative Immunity
Biological Clocks	Cytokines and Behavior
Aggression	Behavioral Effects of Gene Manipulations

GRADUATE STUDENTS AND POSTDOCTORAL TRAINEES

Terminal Master Degrees:

Sharon Willoughby, Stacy Bennett, Wenjun Ruan, Joyce Hairston, Steven Kinsey, Michelle Gatien.

Doctoral Degrees:

Joan Blom, PhD, 1992; Currently: Associate Professor of Psychology, University of Modena, Italy
 Ruiquin Wan (co-advisor), PhD, 1993: Currently: Senior Research Scientist, National Institute on Aging, NIH, Baltimore
 Christopher Moffatt, PhD, 1994: Currently: Associate Professor of Biology, San Francisco State University
 Gregory Demas, PhD, 1998; Currently: Professor and Chair of Biology, Indiana University
 Sabra Klein, PhD, 1998; Currently: Professor of Molecular Microbiology and Immunology, Johns Hopkins, School of Public Health
 Amy Wisniewski, PhD, 1999; Currently: Professor of Pediatric Urology, University of Oklahoma College of Medicine
 Lance Kriegsfeld, PhD, 1999; Currently: Professor of Psychology and Neuroscience, UC Berkeley
 Kelly Young, PhD, (Biochemistry) 2000; Currently: Professor of Biology, Cal State Long Beach
 Deborah Drazen, PhD, 2001; JD, 2010; Currently: Senior Patent Counsel, Johnson & Johnson, New York, NY
 Staci Bilbo, PhD, 2003; Currently: Professor of Psychology and Neuroscience, Duke University
 Gretchen Neigh, PhD, 2004; Currently: Associate Professor of Neurobiology, Virginia Commonwealth University
 Leah Pyter, PhD, 2006; Currently: Assistant Professor of Psychiatry, Ohio State University Wexner Medical Center
 Zachary Weil, PhD, 2008; Currently: Associate Professor of Neuroscience, West Virginia University
 Joanna Workman, PhD, 2010; Currently: Assistant Professor of Psychology, University of Albany
 Abed Zubidat (co-advisor), PhD, 2012; Currently: Research Scientist, University of Haifa
 Tracy Bedrosian, PhD, 2013; Currently: Senior Research Scientist, Nationwide Children's Hospital
 James Walton, PhD, 2013; Currently: Research Assistant Professor, West Virginia University

Laura Fonken, PhD, 2013; Currently: Assistant Professor, University of Texas
John Morris, PhD, 2013; Currently: Postdoctoral Fellow, University of Chicago
Taryn Aubrecht, PhD, 2014. Currently: Science Officer, Ripple Effects Communications.
Jeremy Borniger, PhD, 2017. Currently: Assistant Professor, Cold Spring Harbor Labs
Yasmine Cisse, PhD, 2017. Currently: Postdoctoral Fellow, University of Maryland
O. Hecmarie Meléndez-Fernández, Current grad student
Jacob Bumgarner, Current grad student
Jennifer Liu, Current grad student

Postdoctoral Fellows:

Denise Frank, PhD; 1988-1990; Currently: Research Associate Professor, University of Arizona Medical Center.

Stephen Gammie, PhD, 1998-2001; Currently: Professor of Zoology; University of Wisconsin.

Silvana Chiavegatto, PhD, 1999-2001; Currently: Associate Professor of Neuroscience; University of Sao Paulo.

Brian Prendergast, PhD, 1999-2003; Currently: Professor of Psychology; University of Chicago.

Andrew Hotchkiss, PhD, 2001-2004; Currently: Research Scientist, EPA, Research Triangle Park.

Lynn Martin, PhD, 2004-2007; Currently: Professor of Biology, University of South Florida.

Brian Trainor, PhD, 2004-2007; Currently: Professor of Psychology, University of California, Davis.

Kristen Navara, PhD, 2005-2007; Currently: Associate Professor of Biology, University of Georgia.

Noah Ashley, PhD, 2010-2012; Currently: Associate Professor of Biology, University of Western Kentucky.

Tomoko Ikeno, PhD, 2012-2014; Currently: Research Scientist, University of Tokyo.

Matthew Hogan, DVM, 2013-2015; Currently: Staff Veterinarian, Harvard University.

Kathryn Russart, PhD, 2016-2018; Currently: Postdoctoral fellow, Ohio State University.

Surbhi Gahlot, PhD 2016-2018; Currently: Postdoctoral fellow, University of Michigan.

Souhad Chbeir, PhD; Currently, Research Scientist, Ohio State University.

William Walker, PhD; Currently, Postdoctoral Fellow, West Virginia University

COURSES TAUGHT AT JOHNS HOPKINS UNIVERSITY

Mechanisms of Animal Behavior (200.146)
Behavioral Endocrinology (200.344)
Comparative Animal Behavior (471.421)

Introduction to Psychology (466.103; 200.101)
Biopsychology Area Seminar (200.650)
Behavioral Ecology (200.644)
Sociobiology (200.646)
Biological Rhythms and Behavior (200.634)
Systems Neuroscience (080.205)
Topics in Behavioral Biology (290.120)

COURSES TAUGHT AT OHIO STATE UNIVERSITY

Research Seminar for Psychobiology & Behavioral Neuroscience (Psy 811)
Behavioral Endocrinology (Psy 644)
Biology of Aggression (HON 596)
Biological Clocks and Behavior (Neuro 4623)
Neuroendocrinology Seminar (Psy 811.08)
Advanced Comparative Psychology (Psy 804)
Neuroscience Seminar (NS 727)
Neuroscience of Biological Clocks (Neuros 4623)
Behavioral Endocrinology (Neuro 5644)

OHIO STATE UNIVERSITY SERVICE

Committees (Department):

Psychobiology Colloquium Series Committee, (Faculty Advisor)
Promotion & Tenure Reading Committee
Ethics Committee
Psychobiology Faculty Search Committee
Research Advisory Committee
New Lab Building Consultancy
Speakers Committee (Chair)
Health Psychology Eminent Scholar Search Committee
Strategy Committee
Area Coordinator
Diversity Committee (Chair)
Diversity, Recruitment, and Retention Committee (Chair)

Committees (College/University):

Institutional Animal Care and Use Committee
Neuroscience Graduate Studies Committee
Neuroscience Graduate Studies Program, Co-Director
Neurobiotechnology Committee
Carnegie Initiative on the Doctorate Committee
Neuroscience minor, OSU Consortia of Arts and Sciences Colleges
Neuroscience major, OSU Consortia of Arts and Sciences Colleges, Chair
Advisory Board, Comprehensive Training Grant in Oral and Craniofacial Sciences, College of Dentistry
Advisory Board, Training Grant in the Neurosciences

Neuroscience Chair Search Committee
Academic Senate: University Research Committee
Arts and Sciences College Leadership Committee
Medical Scientist Program (MSP) Steering Committee (COM)
Promotion and Tenure, College of Behavioral and Social Sciences
Distinguished Scholar Selection Committee
Task Force on Biological and Life Sciences
Admission Committee (MD/PhD subcommittee), Ohio State College of Medicine
Graduate School PhD Completion Project
Life Sciences Steering Committee
College of Medicine Funds Flow Task Force
Recruitment of Women Leaders in the College of Medicine Task Force
Search Committee, Dean, College of Medicine
Search Committee, Dean of Education, College of Medicine
Search Committee, Faculty Leader, FAME, College of Medicine
Presidential AAAS Fellows Committee, College of Medicine
Honorary Degree Nomination Committee, Ohio State University
Search Committee, Chair, Oral Biology, College of Dentistry
Search Committee, Chair, Department of Neurological Surgery, Wexner Medical Center, OSU
Search Committee, University President, The Ohio State University.
Selection Committee, Ohio State Distinguished Professor
Committee for Improved Recruitment and Contracting, Wexner Medical Center, OSU

WEST VIRGINIA UNIVERSITY SERVICE

Committees (College/University):

Neuroscience Graduate Program Committee, Chair
Neuroscience Graduate Program, Director
Neuroscience major, WVU Advisory Committee
Internal Advisory Board, Training Grant in Stroke
Pharmaceutical Sciences Chair Search Committee
Research Operational Action Team, Co-Chair
Rockefeller Neuroscience Institute Strategic Planning Executive Committee
Basic Science Chair Committee
Biomedical Sciences Program Leader Committee
Rockefeller Neuroscience Institute Construction Committee
WVU Neurosurgery Chair Search Committee
WVU Behavioral Health and Psychiatry Chair Search Committee

Committees (National):

National Academies of Science Committee for Animal Welfare Guidelines for the National Institutes of Health
National Academies International Workshop on Development of Science-Based Guidelines for Enrichment
NIH ICFN-3 Panel Member.
National Science Foundation, Behavioral Neuroscience Center Site Visit Panel (Chair)
National Science Foundation, Animal Behavior Panelist
Advisory Committee, Reproductive Diversity Training Grant, Indiana University (2006-11)
NIH BRS Study Section, 2005-2007.

NIH Neuroscience Blueprint Study Section for Conte Centers 2006-2009.
NIH Neurogenetics and Neurogenomics Study Section, 2007-2009.
NIH Novel Genetic Tools to Study Brain Function Study Section, 2007-2008.
Evaluation Committee: The Animal Behavior Graduate Group, University of California, Davis, 2008-2009.
NIH Workshop on Biological Clocks and Rhythms in Mental Health, 2008 (Co-Chair)
Evaluation Committee, 2010: Neuroscience Undergraduate Major review. Ohio Wesleyan University.
Evaluation Committee, 2010: Biology graduate program, Kent State University.
Evaluation Committee, 2011: External reviewer of the Center for the Integrative Study of Animal Behavior (CISAB) at Indiana University.
Evaluation Committee, 2012: external reviewer of the Biology Department, University of Kentucky.
NIMH Review Panel: National Cooperative Drug Discovery/Development Groups, 2012.
National Science Foundation, Modulation 2 Proposal Review Panel Member, 2012-2013.
NIMH RDoC Workshop: member, circadian rhythm and sleep section, 2012.
Evaluation Committee, 2013: External reviewer of the Center for the Integrative Study of Animal Behavior (CISAB) at Indiana University.
Evaluation Committee, 2013: External reviewer of the Psychology Department, University of Massachusetts.
Alan T. Waterman Award Committee, NSF, 2014-2017.
National Science Foundation, Biology Directorate Advisory Committee, 2014-2018.