

CURRICULUM VITAE
CHARLES AUGUST GREER

Addresses: Business

Department of Neurosurgery
 Yale University School of Medicine
 PO Box 208082
 New Haven, CT 06520-8082
 Tel: (203) 785-4034
 Fax: (203) 737-2159
 E-mail: charles.greer@yale.edu

Education: 1971 B.A. University of Colorado at Colorado Springs
 1976 M.A. University of Colorado at Boulder
 1978 Ph.D. University of Colorado at Boulder

Academic and Professional Positions:

1999-Present Director, Interdepartmental Neuroscience Graduate Training Program,
 Yale University, New Haven, CT.

1997-Present Professor of Neuroscience in the Departments of Neurosurgery and
 Neurobiology, Yale University School of Medicine, New Haven, CT.

1997-Present Vice Chairman for Research, Department of Neurosurgery, Yale
 University School of Medicine, New Haven, CT.

1993-1997 Associate Professor in the Department of Neurosurgery and the Section of
 Neurobiology with Tenure, Yale University School of Medicine, New
 Haven, CT

1987-1993 Associate Professor of Surgery in Neurosurgery and the Section of
 Neurobiology, Yale University School of Medicine, New Haven, CT

1983-1987 Assistant Professor of Surgery in Neurosurgery and the Section of
 Neurobiology, Yale University School of Medicine, New Haven, CT

1983-1997 Director, Neurosurgical Research Laboratories, Yale University School of
 Medicine, New Haven, CT

1981-1983 Associate Research Scientist in the Section of Neurobiology, Yale
 University School of Medicine, New Haven, CT

- 1979-1981 Postdoctoral Fellow, Section of Neuroanatomy, Yale University School of Medicine, New Haven, CT
- 1978-1979 Postdoctoral Fellow, Department of Physiology, Yale University School of Medicine, New Haven, CT
- 1978 Instructor, Department of Psychology, University of Colorado at Boulder, Boulder, Colorado

Grants, Fellowships and Awards:

- 1974-1978 Predoctoral Fellow, Institute for Behavioral Genetics, University of Colorado at Boulder, NIMH MH-11167
- 1978-1981 Postdoctoral Fellow, NINCDS F32-NS06159
- 1983-1985 Basil O'Connor Research Award, March of Dimes Mirth Defects Fnd.
- 1983-Present Principal Investigator, PHS Research Grant, NIDCD R01-DC00210
- 1985-1986 Principal Investigator, Research Grant, March of Dimes Birth Defects Foundation
- 1988-2005 Program Director and Principal Investigator, PHS Research Grant, NINDS P50-NS10174
- 1991-1993 Principal Investigator, Research Grant, Fragrance Foundation Ltd.
- 1999-2003 Program Director and Principal Investigator, PHS Research Grant, NIDCD P01-DC039887
- 2002 R.H. Wright Award for Outstanding Research in Olfaction
- 2003 Distinguished Visiting Professor, Simon Fraser University, Vancouver, British Columbia, Canada
- 1986-Present Principal Investigator, PHS Research Grant NIDCD R01-DC000210
- 2003-Present Co-Principal Investigator, PHS Research Grant NIDCD R01-DC006291
- 2004-Present Principal Investigator, PHS Research Grant NIDCD R01-DC006792
- 2006-Present Principal Investigator, PHS Research Grant NIDCD R01-DC007880
- 2006- Present- Program Director and P.I., PHS Research Grant NIA R01-AG028054

Dissertations:

An Animal Model for the Investigation of Neuronal Inhibition and Excitation in Two Selectively Bred Lines of Mice; M.A., 1976.

Dopaminergic Modulation of the Age-Dependent Effects of Psychostimulants; Ph.D., 1978.

Professional Societies:

American Association for the Advancement of Science

Association for Chemoreception Sciences

Behavior Genetics Association

Society for Neuroscience

Microscopy Society of America

Appointments and Offices:

1989-1992	Executive Secretary, Association for Chemoreception Sciences
1989	Ad Hoc Reviewer, Neurological Disorders Program Project Review Committee A., NIH
1990-1991	Ad Hoc Reviewer, Sensory Disorders and Language Study Section, NIH
1991-1995	Regular Member, Sensory Disorders and Language Study Section, NIH
1987-Present	Ad Hoc Reviewer, National Science Foundation, Neuroscience Program
1988-1994	Yale University School of Medicine Admissions Committee
1990-Present	Yale University Interdepartmental Neurosciences Graduate Training Program Executive Committee
1991-Present	Chairman, Graduate Affairs Committee, Yale University Interdepartmental Neurosciences Graduate Training Program
1991-2001	Yale University School of Medicine Funds and Fellowships Committee
	1998-2001 Chairman
1990-Present	Fellow, Calhoun College, Yale University
1995-Present	Yale University School of Medicine Scientist Training Program Committee

- 1996-1997 Program Chair, Annual Meeting Association for Chemoreception Sciences and International Symposium on Olfaction and Taste
- 1996-1999 Society for Neuroscience Committee on Neuroscience Literacy
- 1997-1998 President Elect, Association for Chemoreception Sciences
- 1998-1999 President, Association for Chemoreception Sciences
- 1998-1999 Regular Member, ICFN-4 Study Section, NIH
- 1999-Present Chairman, ICFN-4 Study Section, NIH
- 2004-Present North American and Association for Chemoreception Sciences Representative to the International Committee on Olfaction and Taste
- 2007-2012 National Institutes of Health – National Institute of Deafness and Other Communicative Disorders Advisory Council

Editorial Boards: The Journal of Neuroscience, The Journal of Comparative Neurology

Editorial Reviews: The Journal of Comparative Neurology, The Journal of Neuroscience, Chemical Senses, Neuroscience, Science, Nature, Synapse, Journal of Electron Microscopy Research, The European Journal of Neuroscience, Brain Research, Developmental Brain Research, NeuroReport, Neuron, The Journal of Neurobiology, Developmental Biology, Cell

Sponsored Students, Fellows, Visiting Scientists:

- 1985 Dr. Hinrich Sass, University of Regensburg, West Germany, Visiting Scientist
- 1987-1988 Dr. Patricia Pederson, Special Fellow
- 1986-1990 Dr. Thomas Woolf, Ph.D. Degree, Yale University
- 1986-1988 Dr. Stephen M. Bowers, M.D. Degree, Yale School of Medicine
- 1987-1992 Dr. Robin L. Smith, M.D. Degree, Yale School of Medicine
- 1989-1991 Dr. Christopher Steevens, M. D. Degree, Yale School of Medicine
- 1990 & 1991 Dr. Norbert Halasz, Hungarian Acad. of Sci., Hungary, Visiting Scientist
- 1990-1994 Dr. Juan C. Bartolomei, M.D. Degree, Yale School of Medicine
- 1991 Anthony Chavez, M.D. Laboratory Rotation
- 1992-1999 Artis Tague, M.D./Ph.D. Degree
- 1992 Haiqing Zhao, Ph.D. Laboratory Rotation
- 1992 Roland Medina, Ph.D. Laboratory Rotation
- 1993 Lila Davachi, Ph.D. Laboratory Rotation
- 1993 Sumeet Bhanot, M.D., Laboratory Rotation
- 1994-1997 Dr. Karl Kafitz, Postdoctoral Fellow
- 1995-1996 Dr. Mark Rand, Postdoctoral Fellow
- 1995-1998 Hahnah Kasowski, M.D.
- 1996 Dr. Barbara Zelinski, University of Windsor, Canada, Visiting Scientist
- 1996-2001 Brian Lipscomb, Ph.D.

1997-2000	Dr. Helen Treloar, Postdoctoral Fellow
1997-1999	Dr. Mary Hanson, Postdoctoral Fellow
1998-2004	Darlene Gabeau, M.D./Ph.D.
2000-2005	Michael Akins, Ph.D.
2001-2005	Dr. Carrie Iwema, Postdoctoral Fellow
2000-2003	Elaine Shay, M.D.
2000-2002	Karl Lozanne, M.D.
2001-2005	Matthew Whitley, M.D.
2003-2007	Masha Rand, M.D.
2004-Present	Alexandra Miller, M.D./Ph.D. In Progress
2005-Present	Mary Whitman, M.D./Ph.D. In Progress
2004-Present	Dr. Diego Rodriguez Gil, Postdoctoral Fellow
2005-Present	Dr. Fumiaki Imamura, Postdoctoral Fellow
2005-Present	Dr. Lorena Rela, Postdoctoral Fellow
2006-2007	Ali Maresh, M.D.

Teaching:

1977-1978	Physiological Psychology 405, University of Colorado (Undergraduates)
1977	Introduction of Physiological Psychology 205, University of Colorado (Undergraduates)
1978-Present	Neuroscience 500b, Yale University School of Medicine (Medical and Graduate Students)
1989-Present	Principles of Neuroscience 501, Yale University School of Medicine (Graduate Students)
1983-Present	Neurosurgery Resident Lectures (Neurosurgery Residents and Medical Students)
1998-Present	Biology 495, Yale University (Undergraduate Students)

Invited Talks:

Guest Lecturer. "Dopaminergic Modulation of the Effects of Psychostimulants: An age X Genotype Interaction." Section of Neurosurgery, Yale University School of Medicine, March, 1980.

Visiting Lecturer. "The Functional and Histological Maturation of Local Neuronal Circuits in the Mammalian Olfactory Bulb." Department of Psychology, University of Colorado, October, 1980.

Invited Symposium Participant. "Comparative Aspects of Molecular Stimulation in Chemosensory and Immunological Systems." Winter Conference on Brain Research, January, 1982.

Guest Lecturer. "Parallel Analyses of the Olfactory and Immune Systems." Section of Immunology, Yale University School of Medicine, March 1982.

Guest Lecturer: "Olfactory Bulb Development." Department of Psychology, Columbia University, April 1982.

Visiting Scientist. "The Development of Structure and Function in the Olfactory Bulb." Institute of Biophysics, Biological Research Center, Hungarian Academy of Sciences, Szeged, Hungary, September-October, 1982.

Guest Lecturer. "Postnatal Development of the Mammalian Olfactory Bulb." Department of Anatomy, Wayne State University School of Medicine, April, 1983.

Guest Lecturer. "Structure and Function in the Developing Nervous System." Department of Psychology, University of Colorado, December, 1985.

Invited Address. "Plasticity in the Central Nervous System." Traumatic Brain Injury Association Annual Meeting, December, 1985.

Marie Wilson Howells Visiting Scholar. "Mechanisms of Neuronal Plasticity." University of Arkansas, October, 1986.

Invited Symposium Participant. "Neurological Mutants and the Analysis of CNS Organization." Winter Conference on Brain Research, January, 1987.

Invited Symposium Participant. "Local Circuit Plasticity: Aspects of Dendrodendritic Synaptogenesis." 2nd World Congress of Neuroscience, August, 1987.

Short Course Lecturer. "Anatomical and Functional Organization of the Chemosensory Systems." 40th Annual Midwest Seminar of Dental Medicine, September, 1987.

Invited Symposium Participant. "Golgi Analyses of Neuronal Form: HVEM and Conventional TEM Applications." Society for Neuroscience Satellite Symposium, November, 1987.

Short Course Lecturer. "Golgi Analyses of Neuronal Form Utilizing HVEM." Workshop in Biological HVEM, Department of Cellular, Molecular and Developmental Biology, University of Colorado, June, 1988.

Invited Symposium Participant. "Ultrastructural Analyses of Local Circuit Organization in the Olfactory System." Electron Microscopy Society of America, August, 1989.

Invited Speaker. "The Properties of Dendrites Specialized for Presynaptic Function." The New England Society for Electron Microscopy. December, 1989.

Invited Speaker and Visiting Scientist. "Principles of Organization in the Olfactory Glomerulus." Biological Research Center, Hungarian Academy of Sciences, Szeged, Hungary, October, 1991.

Invited Symposium Participant. "Synaptic Organization in the Olfactory Glomerulus: Specificity of Postsynaptic Targets." Winter Conference on Brain Research, January, 1992.

Invited Speaker. "Organization of Olfactory Bulb Local Circuits." Department of Anatomy and Neurobiology, Colorado State University, January, 1992.

Invited Speaker. "Local Synaptic Circuits." Department of Biology, Denver University, January, 1992.

Invited Speaker. "Principles of Local Circuit Organization and Lateral Inhibition in the Olfactory Bulb. Program in Neuroscience, Tufts University School of Medicine, February, 1992.

Chair and Discussion Leader. "Development, Growth and Senescence in the Chemical Senses." National Institute on Deafness and Other Communication Disorders, March, 1992.

Invited Speaker. "Ultrastructural Organization of the Olfactory Glomerulus." An International Conference on the Glomerulus, Tegernsee, Germany, June, 1992.

Invited Symposium Participant. "Organization of the Olfactory Bulb Glomerulus." International Symposium on Olfaction and Taste, Sapporo, Japan, July, 1993.

Invited Speaker. "Evidence for Parallel Processing Pathways in Olfactory Bulb Circuits." Osaka Bioscience Institute, Osaka, Japan, July, 1993.

Invited Speaker. "Organization of Local Circuits in the Olfactory Glomerulus." NASA, Ames Life Sciences Laboratories, Moffet Field, California, February, 1994.

Invited Speaker. "Neurobiology of the Sense of Smell." Eleventh ORNL Life Sciences Symposium, Knoxville, Tennessee, March, 1994.

Invited Speaker. "Compartmental Organization in the Olfactory Bulb Glomerulus." Woods Hole Marine Biology Program, Woods Hole, MA, December, 1994.

Symposium Organizer and Invited Speaker. "Microanatomical Approaches to Systems in Neurobiology." Microscopy Society of America 52nd Annual Meeting, New Orleans, August, 1994.

Symposium Organizer and Invited Speaker. "Renewable Circuits." Winter Conference on Brain Research, Steamboat Springs, Colorado, January, 1995.

Invited Discussant, Central Nervous System Plasticity. Sponsored by Johns Hopkins University and NASA, Baltimore, MD, February, 1995.

Invited Speaker. "Glomerular Organization of the Olfactory Bulb." The Shriver Center and Harvard Program in Neuroscience, Waltham, MA, February, 1996.

Invited Speaker. "Determinants of Glomerular Organization." Department of Molecular and Structural Biology and the Neuroscience Program, University of Colorado School of Medicine, Denver, CO, December, 1996.

Invited Speaker. "Segregation of Synaptic Circuits in the Mammalian Glomerulus." Burke Research Institute, Cornell University Medical College, White Plains, NY, June, 1997.

Invited Speaker. “Mechanisms of Olfactory System Development.” International Symposium on Olfaction and Taste XII and Association for Chemoreception Sciences XIX, San Diego, CA, July, 1997.

Invited Speaker. “Intrinsic Organization of the Olfactory Bulb Glomerulus.” Special Symposium on The Sense of Smell: From Molecules to Perception. Sponsored by the SmithKline Beecham Stiftung, Assmannshausen, Germany, September, 1997.

Invited Speaker. “Synaptic Circuits of the Olfactory Bulb Glomerulus.” Department of Anatomy and Neurobiology, Northwestern University, Evanston, ILL, November, 1997.

Invited Speaker. “Intrinsic Organization of the Olfactory Bulb Glomerulus.” Program in Neuroscience, SUNY Health Sciences Center, Syracuse, NY, February, 1998.

Invited Speaker. “Mechanisms Underlying Odor Representation in the Olfactory Bulb Glomerulus.” Department of Biology, University of Vermont, Burlington, VT, March, 1998.

Invited Speaker. “Induction of Olfactory Bulb Glomeruli.” European Chemosenses Research Organization Symposium, Siena, Italy, September, 1998.

Invited Symposium Participant. “The Role of Glutamate in Olfactory Bulb Circuits.” Winter Conference on Brain Research, Snowmass, CO, January, 1999.

Invited Speaker. “The Olfactory Glomerulus.” Neuroscience Program and Department of Biology, Florida State University, Tallahassee, FL, January, 1999.

Invited Speaker. “Early Development of Primary Afferent Innervation of the Olfactory Bulb.” Department of Anatomy & Neuroscience, University of Maryland School of Medicine, Baltimore, MD, February, 1999.

Invited Speaker. “Early Development of Primary Afferent Innervation of the Olfactory Bulb.” Neuroscience Program, University of Virginia, Charlottesville, VA, March, 1999.

Invited Symposium Organizer. “Recent Advances in Understanding the Structure and Function of the Mammalian Olfactory Glomerulus.” Annual Meeting of the Association for Chemoreception Sciences, Sarasota, FL, April, 1999.

Invited Speaker. “The Inductive Role of the Olfactory Nerve in Development of Olfactory Bulb Glomeruli.” Developmental Neuroscience Group, Hospital de la Salpetriere, Paris, France, November, 1999.

Invited Symposium Speaker. “The Organization of Functional Columns in the Olfactory Bulb.” Winter Conference on Brain Research, Breckenridge, CO, January, 2000.

Invited Symposium Speaker. “Mechanisms of Sensory System Development.” University of Calgary Biomedical Symposium Series. University of Calgary, Calgary, Alberta, May, 2000.

Invited Symposium Organizer and Chair. “Plasticity in the Olfactory Pathway.” 13th International Symposium on Olfaction and Taste, Brighton, England, July, 2000.

Invited Speaker. “Glomerular Induction in the Olfactory Bulb.” Department of Biology, Wesleyan University, Middletown, CT, November, 2000.

Invited Speaker. “Early Development of the Olfactory Pathway.” The Cajal Institute, Madrid, Spain, May, 2001.

Invited Speaker. “Mechanisms of Odor Coding – The Role of Early Development.” Univ. Pablo de Olavide, Sevilla, Spain, May, 2001.

Invited Speaker. “The Organization of the Olfactory Glomerulus.” Gordon Conference, Newport, RI, July, 2001.

Invited Speaker. “Olfactory Sensory Axon Targeting of Glomeruli.” Florida State University, December, 2001.

Invited Symposium Organizer and Speaker. “Development in the Olfactory System.” International Symposium on Developmental Neuroscience. Sydney, Australia, February, 2002.

Invited Speaker. “Mechanisms of Early Development in the Olfactory System. Department of Physiology, University of Kentucky, February, 2002.

Invited Speaker and Symposium Organizer. “Determinants of Glomerular Organization.” European Chemoreception Research Organization, Erlangen, Germany, July, 2002.

Invited Speaker. “Development in the Olfactory Pathway.” The Pasteur Institute, Paris, France, November, 2002.

Invited Speaker and Visiting Professor. “Seminal Stages in the Development of the Olfactory Pathway.” Department of Biological Sciences, Columbia University, December, 2002.

Symposium Speaker. “The Role of Tenascin in the Development of Olfactory Glomeruli.” American Association for the Advancement of Science Annual Meeting, Denver, Colorado, February 2003.

The Linville-Wright Lecturer. “The Sense of Smell.” Simon Fraser University, Vancouver, British Columbia, Canada, March, 2003.

Seminar Speaker and Visiting Professor. Molecular Cues in the Early Development of the Olfactory Pathway. Department of Anatomy, University of British Columbia, Vancouver, British Columbia, Canada, March 2003.

Seminar Speaker. “Olfactory Development.” Department of Cell Biology, Tufts University School of Medicine, September, 2003.

Seminar Speaker. “Olfactory Development.” Monell Chemical Senses Center, Philadelphia, PA, September, 2003.

Seminar Speaker. “Development of the Olfactory Pathway.” Pasteur Institute, Paris, November, 2003.

Seminar Speaker. “Olfactory Development.” Department of Genetics and Keck Center, North Carolina State Univ., Raleigh, NC, December, 2003.

Invited Speaker. “Molecular Specification in the Olfactory System.” Dahlem Conference on the Development and Organization of Sensory Systems. Berlin, Germany, May, 2004.

Symposium Speaker. “Mechanisms of Dendrodendritic Synapse Structure and Function. International Symposium on Olfaction and Taste, Kyoto, Japan, July, 2004.

Seminar Speaker. “Molecular Differentiation in the Olfactory Epithelium.” Department of Neuroscience, Mount Sinai School of Medicine, New York, NY, January, 2005.

Seminar Speaker. “Molecular Mechanisms of Olfactory Development.” Department of Neuroscience, University of Florida, Gainesville, FL, February, 2005.

Seminar Speaker. “Olfactory System Development and Differentiation.” Department of Biology, University of Arizona, Tucson, AZ, February, 2005.

Invited Speaker. “Mechanisms of Dendrodendritic Synaptic Organization.” Blankenese Meeting on Signaling in Sensory Systems, Blankenese, Germany, May, 2005.

Invited Speaker and Course Director. “Mechanisms of Sensation.” Department of Neuroscience, University of Salamanca, Salamanca, Spain, May/June, 2005.

Seminar Speaker. “Differentiation During Early Olfactory Development.” Killiam Center, Montreal Neurological Institute, McGill University, January, 2006.

Seminar Speaker. “Mechanisms Underlying the Molecular Mapping of Odorant Receptors. Beckman Neuroscience Institute, University of Illinois, Champaign-Urbana, ILL, March, 2006.

Invited Symposium Speaker. “Embryonic Onset of Odor Receptor Expression.” AChemS Satellite Symposium on the Molecular Biology of Odor Receptors. Sarasota, Fl, April, 2006.

Original Papers:

1. Alpern, H.P., **Greer, C.A.**, Stripling, J.S., Collins, A.C. and Olson, R.K. (1975). Methaqualone: Tolerance and physical dependence in mice. Psychopharmacologia, 44:303-305.

2. **Greer, C.A.**, Alpern, H.P. and Collins, A.C. (1976). Increased sensitivity to fluorothyl as a measure of physical dependence in mice following morphine, phenobarbital, and ethanol treatment. Life Sciences, 18:1375-1382.
3. Alpern, H.P. and **Greer, C.A.** (1977). A dopaminergic basis for the effects of amphetamine on a mouse "preadolescent hyperkinetic" model. Life Sciences, 21:93-98.
4. **Greer, C.A.** and Alpern, H.P. (1977). Mediation of myoclonic seizures by dopamine and clonic seizures by acetylcholine and GABA. Life Sciences, 21: 385-392.
5. **Greer, C.A.** and Alpern, H.P. (1978). Differential neurohumoral modulation of myoclonic and clonic seizures. Archives Internationales Pharmacodynamie et Therapie, 236:74-85.
6. **Greer, C.A.** and Alpern, H.P. (1979). Maturational changes related to dopamine in the effects of d-amphetamine, cocaine, nicotine, and strychnine on seizure susceptibility. Psychopharmacology, 65: 255-260.
7. **Greer, C.A.** and Alpern, H.P. (1980). Paradoxical effects of d-amphetamine upon seizure susceptibility: An ontogenetic investigation of dopaminergic modulation in two selectively bred lines of mice. Developmental Psychobiology, 13:7015.
8. **Greer, C.A.**, Stewart, W.B., Kauer, J.S. and Shepherd, G.M. (1981). Topographical and laminar localization of 2-deoxyglucose uptake in the rat olfactory bulb induced by electrical stimulation of olfactory nerves. Brain Research. 217:379-293.
9. **Greer, C.A.**, Mori, K. and Shepherd, G.M. (1981). Localization of synaptic responses in the in vitro turtle olfactory bulb using the ¹⁴C-2-deoxyglucose method. Brain Research, 217:295-303.
10. Shepherd, G.M., Nowycky, M.C., **Greer, C.A.** and Mori, K. (1981). Multiple overlapping circuits within olfactory and basal forebrain systems. Advances Physiological Sciences, Vol. 30, Neural Communication and Control, 263-278.
11. Lancet, D., **Greer, C.A.**, Kauer, J.S. and Shepherd, G.M. (1982). Mapping of odor-related neuronal activity in the olfactory bulb using high resolution 2-deoxyglucose autoradiography. Proceedings of the National Academy of Sciences (USA), 79:670-674.
12. **Greer, C.A.** and Shepherd, G.M. (1982). Mitral cell degeneration and sensory function in the neurological mutant mouse PCD. Brain Research, 235:156-161.
13. Lancet, D., Kauer, J.S., **Greer, C.A.**, Shepherd, G.M. (1982). High resolution 2-deoxyglucose localization in olfactory epithelium. Chemical Senses, 6:343-349.
14. **Greer, C.A.**, Stewart, W.B., Teicher, M.H. and Shepherd, G.M. (1982). Functional development of the olfactory bulb and a unique glomerular complex in the neonatal rat. Journal of Neuroscience, 2:1744-1759.

15. Piepmeier, J.P. Kauer, J.S. and **Greer, C.A.** (1983). Laminar distributions of 2-deoxyglucose uptake in the rat spinal cord following electrical stimulation of the sciatic nerve. Brain Research. 259:167-171.
16. Stewart, W.B., **Greer, C.A.** and Teicher, M.H. (1983). The effect of intranasal zinc sulfate treatment on odor-mediated behavior and odor-induced metabolic activity in the olfactory bulbs of neonatal rats. Developmental Brain Research, 8:247-259.
17. Pedersen, P.E., Stewart, W.B., **Greer, C.A.** and Shepherd, G.M. (1983). Evidence for olfactory function in utero. Science, 221:478-480.
18. Jastreboff, P., Pedersen, P., **Greer, C.**, Stewart, W., Kauer, J., Benson, T. and Shepherd, G. (1984). Specific olfactory receptor projection to identified glomeruli in the rat olfactory bulb. Proceedings of the National Academy of Sciences (USA), 81:5250-5254.
19. Benson, T., Burd, G., **Greer, C.**, Landis, D. and Shepherd, G. (1985). High-resolution 2-deoxyglucose autoradiography in quick-frozen slabs of neonatal rat olfactory bulb. Brain Research, 339:67-78.
20. **Greer, C.A.** and Halasz, N. (1987). Plasticity of dendrodendritic microcircuits following mitral cell loss in the olfactory bulb of the murine mutant PCD. Journal of Comparative Neurology, 256:284-298.
21. **Greer, C.A.** (1987). Golgi analyses of dendritic organization among denervated olfactory bulb granule cells. Journal of Comparative Neurology, 257-442-452.
22. Penar, P.L. and **Greer, C.** (1987). The effect of intravenous tissue-type plasminogen activator in a rat model of embolic cerebral ischemia. Yale Journal of Biology and Medicine, 60: 233-243.
23. Baker, H. and **Greer, C.A.** (1990). Region specific consequences of PCD gene expression in the olfactory system. Journal of Comparative Neurology, 293: 125-133.
24. Verhaagen, J., **Greer, C.A.** and Margolis, F.L. (1990). B-50/GAP43 protein and mRNA distribution in the rat olfactory system during postnatal development and aging. European Journal of Neuroscience, 2: 397-407.
25. Cameron, H.A., Kaliszewski, C.K. and **Greer, C.A.** (1991). Organization of mitochondria in olfactory bulb granule cell dendritic spines. Synapse, 7: 181-192.
26. Woolf, T.B., Shepherd, G.M. and **Greer, C.A.** (1991). Serial reconstructions of granule cell spines in the mammalian olfactory bulb. Synapse, 7: 181-192.
27. Woolf, T.B., Shepherd, G.M. and **Greer, C.A.** (1991). Local information processing in dendritic trees: subsets of spines in granule cells of the mammalian olfactory bulb. The Journal of Neuroscience, 11: 1837-1854.

28. Smith, R.L., Baker, H., Kolstad, K., Spencer, D.D. and **Greer, C.A.** (1991). Localization of tyrosine hydroxylase and olfactory marker protein immunoreactivities in the human and macaque olfactory bulb. Brain Research, 548: 140-148.
29. Smith, R.L., Baker, H. and **Greer, C.A.** (1993). Immunohistochemical organization of the human olfactory bulb. Journal of Comparative Neurology, 333: 543-553.
30. Halasz, N. and **Greer, C.A.** (1993). Terminal arborizations of olfactory receptor cell axons in olfactory bulb glomeruli. Journal of Comparative Neurology, 337: 307-316.
31. Woolf, T.B. and **Greer, C.A.** (1994). Local communication in dendritic spines: electrical and diffusional models of granule cell spines from the mammalian olfactory bulb. Synapse, 17: 247-267.
32. **Greer, C.A.**, Bartolomei, J.C. and Dembner, J.M. (1994). Organization of primary afferent and local circuit synapses in the olfactory glomerulus. Microscopy Society of America Proceedings, 52: 148-149.
33. Zhao, H., Firestein, S. and **Greer, C.A.** (1994). NADPH-diaphorase localization in the olfactory system. Neuroreport, 6: 149-152.
34. Singer, M., Shepherd, G.M. and **Greer, C.A.** (1995). Olfactory receptors guide axons. Nature, 377: 19-20.
35. Sashihara, S., **Greer, C.A.**, Oh, Y. and Waxman, S.G. (1996). Cell specific differential expression of Na⁺ channel β 1 subunit mRNA in olfactory system during postnatal development and following denervation. The Journal of Neuroscience, 16: 702-713.
37. Shepherd, G.M., Singer, M.S. and **Greer, C.A.** (1996). Olfactory receptors: A large gene family with broad affinities and multiple functions. The Neuroscientist, 2: 262-271.
38. Chiu, K. and **Greer, C.A.** (1996). Immunocytochemical analyses of astrocyte development in the olfactory bulb. Developmental Brain Research, 95: 28-37.
39. Firestein, S., Breer, H. and **Greer, C.A.** (1996). Olfaction: What's new in the nose. Journal of Neurobiology, 30: 1-3.
40. Piepmeier, J.M., Pedersen, P.E., Yoshida, D. and **Greer, C.A.** (1996). Targeting microtubule-associated proteins in glioblastoma: A new strategy for selective therapy. Annals of Surgical Oncology 3: 543-549.
41. Kafitz, K.W. and **Greer, C.A.** (1997). The role of laminin in axonal extension from olfactory receptor cells. Journal of Neurobiology, 32: 298-310.

42. Sashihara, S., Waxman, S. and **Greer, C.A.** (1997). Down-regulation of Na⁺ channel mRNA in olfactory bulb tufted cells following deafferentation. NeuroReport, 8: 1289-1293.
43. Leinders-Zufall, T., Rand, M.N., Shepherd, G.M., **Greer, C.A.** and Zufall, F. (1997). Calcium entry through cyclic nucleotide-gated channels in individual cilia of olfactory receptor cells: spatio-temporal dynamics. The Journal of Neuroscience, 17: 4136-4148.
44. Klenoff, J. R. and **Greer, C.A.** (1998). Postnatal development of olfactory receptor cell axonal arbors. The Journal of Comparative Neurology, 390: 256-267.
45. Kafitz, K.W. and **Greer, C.A.** (1998). The differential expression of extracellular matrix and cell adhesion molecules in the olfactory nerve and glomerular layers of adult rats. Journal of Neurobiology, 34: 271-282.
46. Leinders-Zufall, T., **Greer, C.A.**, Shepherd, G.M. and Zufall, F. (1998). Imaging odor-induced calcium transients in single olfactory cilia: specificity of activation and role in transduction. The Journal of Neuroscience, 18: 5630-5639.
47. Yang, X., Renken, R., Hyder, F., Siddeek, M., **Greer, C.A.**, Shepherd, G., and Shulman, R. (1998). Dynamic mapping at the laminar level of odor-elicited responses in rat olfactory bulb by functional MRI. Proceedings of the National Academy of Sciences (USA), 95: 7715-7720.
48. Kafitz, K.W. and **Greer, C.A.** (1998). The influence of ensheathing cells on olfactory receptor cell neurite outgrowth *in vitro*. Annals of the New York Academy of Sciences, 855: 266-270
49. Zaidi, A.U., Kafitz, K.W., **Greer, C.A.** and Zielinski, B.S. (1998). The expression of tenascin-C along the lamprey olfactory pathway during embryonic development and following axotomy-induced replacement of the olfactory receptor neurons. Developmental Brain Research, 109: 157-68
51. Imaizumi T., Lankford K.L., Waxman S.G., **Greer C.A.** and Kocsis JD (1998). Transplanted olfactory ensheathing cells remyelinate and enhance axonal conduction in the demyelinated dorsal columns of the rat spinal cord. The Journal of Neuroscience, 18:6176-6185.
52. Singer, M.S., Hughes, T.E., Shepherd, G.M. and **Greer, C.A.** (1998). Identification of olfactory receptor mRNA sequences from the rat olfactory bulb glomerular layer. NeuroReport, 9: 3745-3748.
53. Bartolomei, J. and **Greer, C.A.** (1998). The organization of piriform cortex and the lateral olfactory tract following the loss of mitral cells in PCD mice. Experimental Neurology, 154: 537-550.

54. Kafitz, K.W. and **Greer, C.A.** (1999). Olfactory ensheathing cells promote neurite extension from embryonic olfactory receptor cells *in vitro*. *Glia*, 25: 99-110..
55. Montague, A. and **Greer, C.A.** (1999). Differential distribution of ionotropic glutamate receptor subunits in the rat olfactory bulb. *The Journal of Comparative Neurology*, 405: 233-246.
56. Kasowski, H., Kim, H. and **Greer, C.A.** (1999). Compartmental organization of the olfactory bulb glomerulus. *The Journal of Comparative Neurology*, 407: 261-274.
57. Treloar, H.B, Purcell, A.L. and **Greer, C.A.** (1999). Glomerular formation in the developing rat olfactory bulb. *The Journal of Comparative Neurology*, 413: 289-304.
58. Tanaka, M., Treloar, H., Kalb, R., **Greer, C.A.** and Strittmatter, S. (1999). G_o protein dependent survival of primary accessory olfactory neurons. *Proceedings of the National Academy of Sciences* 86: 14106-14111.
59. Zufall, F., Leinders-Zufall, T, and **Greer, C.A.** (2000). Amplification of odor-induced Ca²⁺ transients by store-operated Ca²⁺ release and its role in olfactory signal transduction. *Journal of Neurophysiology* 83: 501-512.
60. Kafitz, K., Leinders-Zufall, T., Zufall, F. and **Greer, C.A.** (2000). Cyclic GMP evoked calcium transients in olfactory receptor cell growth cones. *NeuroReport*, 11: 677-681.
61. Kim, H. and **Greer, C.A.** (2000). The emergence of compartmental organization in olfactory bulb glomeruli during postnatal development. *The Journal of Comparative Neurology*, 422: 297-311.
62. Griff E.R., **Greer C.A.**, Margolis F., Ennis M. and Shipley M.T. (2000). Ultrastructural characteristics and conduction velocity of olfactory receptor neuron axons in the olfactory marker protein-null mouse. *Brain Research* 866: 227-236.
63. Rodriguez, I. **Greer, C.A.**, Mok, M. and Mombaerts, P. (2000). A putative pheromone receptor gene expressed in human olfactory mucosa. *Nature Genetics* 26: 18-19.
64. Au, W., Treloar, H.B. and **Greer, C.A.** (2002). Sublamina organization of the mouse olfactory bulb nerve layer. *The Journal of Comparative Neurology*, 446: 68–80.
65. Lipscomb, B., Treloar, H.B. and **Greer, C.A.** (2002). Novel microglomerular structures in the mouse olfactory bulb. *The Journal of Neuroscience*, 22: 766-774.
66. Zou, D.J., **Greer, C.A.** and Firestein, S. (2002). Expression pattern of α CaMKII in the mouse main olfactory bulb. *The Journal of Comparative Neurology*, 443: 226-236.
67. Treloar, H.B., Feinstein, P., Mombaerts, P. and **Greer, C.A.** (2002). Specificity of glomerular targeting by olfactory sensory axons. *The Journal of Neuroscience*, 22: 2469-2477.

68. Lipscomb, B., Treloar, H.B. and **Greer, C.A.** (2002). Cell surface carbohydrates and glomerular targeting of olfactory receptor cell axons in the mouse. Cell and Tissue Research, 308: 7-17.
69. Wang, X., Chun, Y., Treloar, H., Vartanian, T., **Greer, C.A.** and Strittmatter, S. (2002). Localization of Nogo-A and Nogo-66 receptor proteins at sites of axon-myelin and synaptic contact. The Journal of Neuroscience, 12: 5505-5515.
70. Treloar, H.B., Gabeau, D., Yoshihara, Y., Mori, K. and **Greer, C.A.** (2003). Inverse expression of OCAM in a subset of olfactory axons and a subset of mitral/tufted cells in the developing rat olfactory bulb. The Journal of Comparative Neurology, 453: 389-403.
71. Ma, M., Grosmaître, X., Iwema, C., Baker, H., **Greer, C.A.** and Shepherd, G.M. (2003). Olfactory signal transduction in the mouse septal organ. The Journal of Neuroscience 23: 317-324.
72. Frontini A., Zaidi A.U., Hua H., Wolak T.P., **Greer C.A.**, Kafitz K.W., Li W., Zielinski, B.S. (2003). Glomerular territories in the olfactory bulb from the larval stage of the sea lamprey *Petromyzon marinus*. The Journal of Comparative Neurology 465:27-37.
73. Lipscomb, B., Treloar, H., Klenoff, J. and **Greer, C.A.** (2003). Cell surface carbohydrates and glomerular targeting of olfactory sensory neuron axons in the mouse. The Journal of Comparative Neurology, 467: 22-31.
74. Beech, R., Cleary, M., Treloar, H., Eisch, A., Harrist, A., Zhong, W., **Greer, C.A.**, Duman, R., Picciotto, M. (2004). The nestin promoter/enhancer directs transgene expression to precursors of adult generated periglomerular neurons. The Journal of Comparative Neurology, 475: 128-141.
75. Zou, D-J, Feinstein, P., Rivers, A., Mathews, G., Ann Kim, A., **Greer, C.A.**, Mombaerts, P. and Firestein, S. (2004). Postnatal refinement of peripheral olfactory projections. Science 304: 1976-1979.
76. Akiyama, Y., Lankford, K., Radtke, C., **Greer, C.A.** and Kocsis, J.D. (2004). Remyelination of spinal cord axons by olfactory ensheathing cells and Schwann cells derived from a transgenic rat expressing alkaline phosphatase marker gene. Neuron Glia Biology 1: 47-55.
77. Treloar, H., Uboha, U., Jermoin, A. and **Greer, C.A.** (2005). Expression of the neuronal calcium sensor protein NCS-1 in the developing mouse olfactory pathway. The Journal of Comparative Neurology 482: 201-216.
78. Whitley, M., Treloar, H., De Arcangelis, A., Georges Labouesse, E., and **Greer, C.A.**

- (2005). The $\alpha 6$ integrin subunit in the developing mouse olfactory bulb. The Journal of Neurocytology, 34: 81-96.
79. Akins, M. R. and **Greer, C.A.** (2006). Cytoskeletal organization of the developing mouse olfactory nerve layer. The Journal of Comparative Neurology, 494: 358-367.
 80. Walz, A., Mombaerts, P., Greer, C.A. and Treloar, H. (2006). Disrupted compartmental organization of axons and dendrites within olfactory glomeruli of mice deficient in the olfactory cell adhesion molecule, OCAM. Molecular and Cellular Neuroscience 32: 1-14.
 81. Willhite D., Nguyen K., Masurkar A., **Greer, C.A.**, Shepherd G., Chen W. (2006). Viral tracing identifies distributed columnar organization in the olfactory bulb. Proceeding of the National Academy of Sciences, U S A, 103: 12592-12597.
 82. Zhou, Z., Xiong, W., Zeng, S., Xia, A., Shepherd, G.M., **Greer, C.A.** and Chen, W.R. (2006). Dendritic excitability and calcium signaling in the mitral cell distal glomerular tuft. European Journal of Neuroscience, 24: 1623-1632.
 83. Akins, M.R. and **Greer, C.A.** (2006). Axon behavior in the olfactory nerve reflects the involvement of catenin-cadherin mediated adhesion. The Journal of Comparative Neurology, 499: 979-989.
 84. Akins, M.R., Benson, D.L. and **Greer, C.A.** (2007). Cadherin expression in the developing mouse olfactory system. The Journal of Comparative Neurology, 501: 483-497.
 85. Whitman, M.C. and **Greer, C.A.** (2007). Adult generated neurons exhibit diverse developmental fates. Journal of Neurobiology, In Press.
 86. **Greer, C.A.** and Kaliszewski, C. (2005). Topographic courses of individual axons within the olfactory nerve. (In Preparation)

Reviews, Chapters and Edited Volumes

1. Lancet, D., **Greer, C.A.**, Kauer, J.S. and Shepherd, G.M. (1982). Autoradiographic mapping of neuronal activity in the olfactory system of behaving vertebrates. In: J.E. Steiner and J.R. Ganchrow (Eds.) The Determination of Behavior by Chemical Stimuli, IRL Press, Washington, DC, pp. 47-56.
2. Pedersen, P.E., **Greer, C.A.** and Shepherd, G.M. (1985). Early Development of Olfactory Function. In: E. Blass (Ed.) Handbook of Behavioral Neurobiology, Vol. 8 Developmental Psychobiology and Developmental Neurobiology. Plenum Press, New York, NY, pp. 163-203.

3. Shepherd, G., Pedersen, P. and **Greer, C.A.** (1987). Development of Olfactory Specificity in the Mammal. In: N. Krasnegore (Ed.) Perinatal Development: A Psychobiological Perspective. Academic Press, New York, pp. 129-144.
4. **Greer, C.** (1987). Conjugate internalization of apposed dendritic membranes during synaptic reorganization in the olfactory bulbs of adult PCD mice. In: S.D. Roper and J. Atema (Eds.) Olfaction and Taste IX Ann. N.Y. Acad. Sci. Vol 510: 318-220.
5. Pedersen, P., Shepherd, G. and **Greer, C.** (1987). Cytochrome oxidase staining in the olfactory epithelium and bulb of normal and odor-deprived neonatal rats. In: S.D. Roper and J. Atema (Eds.) Olfaction and Taste IX Ann. N.Y. Acad. Sci. Vol. 510: 544-546.
6. Shepherd, G. and **Greer, C.** (1988). The dendritic spine: A multifunctional microcompartment for synaptic integration. In: R.J. Lasek and M.M. Black (Eds.) Intrinsic Determinants of Neuronal Form and Function. Alan R. Liss Inc., New York, pp. 245-262.
7. Williams, A., **Greer, C.** and Flye, W. (1989). Neurological transplantation. In: W. Flye (Ed.) Principles of Organ Transplantation. W.B. Saunders, Philadelphia, pp. 595-611.
8. Shepherd, G.M. and **Greer, C.A.** (1990). The olfactory bulb. In: G. Shepherd (Ed.) The Synaptic Organization of the Brain, 3rd Edition. Oxford University Press, New York, pp. 133-169.
9. **Greer, C.A.** (1991). Genetics and the neurobiology of olfactory bulb circuits. In: Wysocki, C. and Kare, M. (Eds.) Chemical Senses: Genetics of Perception and Communication. Marcel Dekker Publishing, Inc., New York, pp. 291-316.
10. **Greer, C.A.** (1991). Structural organization of the olfactory system. In: T. Getchell, R. Doty, L. Bartoshuk and J. Snow (Eds.) Smell and Taste in Health Disease. Raven Press, New York, pp. 56-81.
11. **Greer, C.A.** and Bartolomei, J.C. (1994). Synaptic circuitry of olfactory bulb glomeruli. In: K. Kurihara, N. Suzuki and H. Ogawa (Eds.) Olfaction and Taste XI. Springer Verlag, Tokyo, pp. 425-428.
12. **Greer, C.A.** (1995). Anatomical organization of the human olfactory system. In: A. Gilbert (Ed.) Compendium of Olfactory Research. Kendall/Hunt Publishing, Iowa, pp. 3-8.
13. **Greer, C.A.** and Bartolomei, J.C. (1996). The neurobiology of olfaction. In: R. Gammage (Ed.) Indoor Air and Human Health Revisited. CRC Press, Florida, pp 31-52.
14. Firestein, S., Breer, H. and **Greer, C.A.** (1996). Olfaction Special Issue (Editors). J. Neurobiology, Volume 30 (1).

15. Shepherd, G.M. and **Greer, C.A.** (1998). The olfactory bulb. In: G. Shepherd (Ed.) The Synaptic Organization of the Brain, 4th Edition. Oxford University Press, New York, pp 159-203.
16. Bartolomei, J.C. and **Greer, C.A.** (2000). Cell transplantation for spinal cord injury repair. In: R. Kalb and S. Strittmatter (Eds.) The Neurobiology of Spinal Cord Injury. Human Press, Inc., Totowa, NJ, pages 195-214.
17. Bartolomei, J.C. and **Greer, C.A.** (2000). Olfactory ensheathing cells: bridging the gap in spinal cord injury. Neurosurgery, 47: 1057-1069.
18. Xu, F., **Greer, C.A.** and Shepherd, G.M. (2000). Odor maps in the olfactory bulb. The Journal of Comparative Neurology 422: 489-495.
19. Treloar, H., Bartolomei, J., Lipscomb, B. and **Greer, C.A.** (2001). Mechanisms of axonal plasticity: Lessons from the olfactory pathway. The Neuroscientist 7: 55-63.
20. Xu, F., **Greer, C.A.** and Shepherd, G.M. (2002). Application of functional MRI in olfactory studies. In: S. Simon and M. Nicolelis (Eds.) Methods in Chemosensory Research, CRC Press, New York, NY, pages 465-476.
21. Shepherd, G.M., Chen, W. and **Greer, C.A.** (2004). The Olfactory Bulb. In: G. Shepherd (Ed.) The Synaptic Organization of the Brain, 5th Edition. Oxford University Press, New York, pp 165-216.
22. **Greer, C.A.**, Whitman, M.C., Rela, R., Imamura, F. and Rodriguez-Gil, D. (2007) Architecture of the Olfactory Bulb. In: D. Smith, S. Firestein & G. Beauchamp (Eds.) The Senses: A Comprehensive Reference. Volume 2 - Olfaction & Taste. Elsevier Press, London, England, Chapter 28

Abstracts:

1. Alpern, H.P. and **Greer, C.A.** (1975). Increased sensitivity to fluorothyl as a measure of physical dependence in mice following morphine, phenobarbital, and ethanol treatment. Soc. Neurosci. Abst., 1:279.
2. **Greer, C.A.** and Alpern, H.P. (1977). Age dependent alterations in dopaminergic mechanisms which account for d-amphetamine's paradoxical effects upon seizure susceptibility in selected lines of mice. Soc. Neurosci. Abst., 3:250.
3. **Greer, C.A.** and Alpern, H.P. (1978). A mouse model of the preadolescent hyperkinetic syndrome. Rocky Mountain Psychological Association Abst.
4. **Greer, C.A.**, Stewart, W.B., Kauer, J.S., Mori, K. and Shepherd, G.M. (1979). Uptake patterns of 2-deoxyglucose associated with electrical stimulation of the olfactory nerve in rat and in vitro turtle olfactory bulb. Soc. Neurosci. Abst., 5:128.

5. Stewart, W.B. and **Greer, C.A.** (1980). Zinc sulfate treatment and 2-deoxyglucose uptake patterns in the rat olfactory bulb. Soc. Neurosci. Abst., 6:306.
6. **Greer, C.A.**, Stewart, W.B., Teicher, M.H., Kauer, J.S. and Shepherd, G.M. (1980). Uptake patterns of 2-deoxyglucose associated with electrical stimulation of the olfactory nerve in rat and in vitro turtle olfactory bulb. Assoc. Chemoreception Sci. Abst., 2:20.
7. **Greer, C.A.**, Stewart, W.B., Teicher, M.H., Kauer, J.S. and Shepherd, G.M. (1980) Correlation of histology and 2-deoxyglucose uptake in the developing rat olfactory bulb. Soc. Neurosci. Abst., 6:306.
8. Lancet., D., **Greer, C.A.** and Shepherd, G.M. (1981). High resolution 2-deoxyglucose autoradiography in the olfactory bulb. Assoc. Chemoreception Sci. Abst., 3:26.
9. **Greer, C.A.**, Stewart, W.B. and Shepherd, G.M. (1981). Odor-induced activity in the olfactory bulbs of neonatal rats. Assoc. Chemoreception Sci. Abst., 3:22.
10. Lancet, D., **Greer, C.A.**, Shepherd, G.M. and Kauer, J.S. (1981). Odor elicited patterns of 2-deoxyglucose uptake in the salamander olfactory pathway using high resolution autoradiography. Assoc. Chemoreception Sci. Abst., 3:26.
11. Stewart, W.B., **Greer, C.A.** and Teicher, M.H. (1981). The effect of intranasal zinc sulfate treatment on suckling behavior and odor induced activity in the neonatal rat olfactory bulb. Soc. Neurosci. Abst., 7:663.
12. Lancet, D., **Greer, C.A.**, Kauer, J.S. and Shepherd, G.M. (1981). High resolution 2-deoxyglucose autoradiography in the olfactory epithelium and bulb. Soc. Neurosci. Abst., 7:661.
13. **Greer, C.A.** and Shepherd, G.M. (1981). Mitral cell degeneration in the mouse mutant PCD. Soc. Neurosci. Abst., 7:545.
14. Pedersen, P.E., **Greer, C.A.**, Stewart, W.B. and Shepherd, G.M. (1982). A 2DG study of behavioral plasticity in odor dependent suckling. Assoc. Chemoreception Sci. Abst., 4:22.
15. Stewart, W.B., **Greer, C.A.**, Teicher, M.H., Pedersen, P.E. and Shepherd, G.M. (1982). The functional and histological maturation of a modified glomerular complex in the neonatal rat olfactory bulb. Assoc. Chemoreception Sci. Abst., 4:27.
16. **Greer, C.A.** and Shepherd, G.M. (1982). Mitral cell degeneration in the neurologically mutant mouse PCD. Assoc. Chemoreception Sci. Abst., 4:12.
17. Stewart, W.B., **Greer, C.A.** and Teicher, M.H. (1982). The effect of intranasal zinc sulfate on suckling behavior and odor-induced activity in the neonatal rat olfactory bulb. Assoc. Chemoreception Sci. Abst., 4:27.

18. Pedersen, P.E., Stewart, W.B., **Greer, C.A.** and Shepherd, G.M. (1982). In utero localization of 2-deoxyglucose in rat main and accessory olfactory bulbs. Soc. Neurosci. Abst., 8:10.
19. **Greer, C.A.**, Halasz, N. and Shepherd, G.M. (1982). Ultrastructural organization of the olfactory bulb following loss of mitral cells in the mutant mouse PCD. Soc. Neurosci. Abst., 8:9.
20. Stewart, W.B., **Greer, C.A.**, Pedersen, P.E. and Shepherd, G.M. (1982). Development of a functionally and morphologically specialized region of the rat olfactory bulb: The modified glomerular complex. Soc. Neurosci. Abst., 8:9.
21. Kauer, J. and **Greer, C.A.** (1983). The effect of chronic formaldehyde exposure on 2-deoxyglucose uptake in the olfactory bulbs of mice. Assoc. Chemoreception Sci. Abst., 5:17.
22. **Greer, C.A.**, Halasz, N. and Shepherd, G.M. (1983). Ultrastructural changes in the external plexiform layer following the loss of mitral cells. Assoc. Chemoreception Sci. Abst., 5:14.
23. Pedersen, P.E., Stewart, W.B., **Greer, C.A.** and Shepherd, G.M. (1983). Functional activity in the rat olfactory system in utero. Assoc. Chemoreception Sci. Abst., 5:29.
24. **Greer, C.A.**, Halasz, N. and Shepherd, G.M. (1983). Local circuit organization in the olfactory bulb following the loss of mitral cells. 29th Cong. Intl. Union Physiol. Sci., 15:447.
25. **Greer, C.A.** (1984). A Golgi analysis of granule cell development in the neonatal rat olfactory bulb. Soc. Neurosci. Abst., 10:531.
26. **Greer, C.A.** (1985). A quantitative Golgi analysis of granule cell development in the neonatal rat olfactory bulb. Assoc. Chemoreception Sci. Abst., 7:21.
27. **Greer, C.A.** (1985). Granule cell plasticity in the olfactory bulb of the mutant mouse Purkinje cell degeneration. Soc. Neurosci. Abst., 11:447.
28. Stewart, W., Pedersen, P., **Greer, C.** and Shepherd, G. (1985). The topography of olfactory epithelium to olfactory bulb projections in the rat. Soc. Neurosci. Abst., 11:971.
29. Ruffa, G.S., Spencer, D.D., **Greer, C.A.**, Schwartz, M.L. and Spencer, S.S. (1986). Afferent connections of the prefrontal cortex in cat: A retrograde analysis utilizing HRP and diamidino yellow. Soc. Neurosci. Abst., 12:1439.
30. Spencer, D.D., Spencer, S.S., Ruffa, G., Partington, J. and **Greer, C.A.** (1986). Kindled foci in the prefrontal cortex of the cat: Metabolic analyses with 2-deoxyglucose. Soc. Neurosci. Abst., 12:1438.

31. **Greer, C.A.** (1986). Reactive dendrodendritic synaptogenesis in the adult olfactory bulb: Reappearance of conjugate internalizations of apposed dendritic membranes. Soc. Neurosci. Abst., 12:1167.
32. Pedersen, P., Shepherd, G. and **Greer, C.** (1986). Cytochrome oxidase staining in the olfactory epithelium and bulb of normal and odor-deprived neonatal rats. Internat. Soc. Olfac. Taste Abst., 9:10.
33. **Greer, C.** (1986). Conjugate internalization of apposed dendritic membranes during synaptic reorganization in the olfactory bulbs of adult PCD mice. Internat. Soc. Olfac. Taste Abst., 9:12.
34. **Greer, C.** (1987). The morphology and development of dendritic spines mediating reciprocal dendrodendritic synapses. Soc. Neurosci. Abst., 13:1412.
35. **Greer, C.** (1987). Morphological variation of dendritic spines involved in reciprocal dendrodendritic synaptic interactions. Second World Cong. Neurosci. Abst., Neuroscience, 22 (Suppl.): S132.
36. Pedersen, P., Friedman, B., Smith, R., **Greer, C.**, Shepherd, G. and Hockfield, S. (1987). Correlations between 2DG activity and monoclonal antibody staining in the olfactory system of the fetal rat. Soc. Neurosci. Abst., 13:363.
37. Woolf, T.B., Shepherd, G.M. and **Greer, C.A.** (1988). Models of local electrical interactions within spiny dendrites of granule cells in mouse olfactory bulb. Soc. Neurosci. Abst., 14:620.
38. **Greer, C.A.** (1988). High voltage electron microscopic analyses of olfactory bulb granule cell spine geometry. Assoc. Chemorecep. Sci. Abst., 10:142.
39. **Greer, C.A.**, Kaliszewski, C.K. and Cameron, H.A. (1989). Ultrastructural analyses of local circuits in the olfactory system. Proc. Ann Meeting EMSA., 47:790-791.
40. **Greer, C.A.**, Kaliszewski, C.K. and Cameron, H.A. (1989). Caudal-Rostral gradients of synaptogenesis in the neonatal rat olfactory bulb. Soc. Neurosci. Abst., 15:926.
41. Woolf, T.B., Shepherd, C.M. and **Greer, C.A.** (1989). The geometry and connectivity of dendrodendritic microcircuits in the olfactory bulb. Soc. Neurosci. Abst., 15:926.
42. **Greer, C.A.**, Smith, R.L., Spencer, D.D. and Baker, H. (1990). Immunohistochemical localization of tyrosine hydroxylase and olfactory marker protein to the glomerular layer of the human olfactory bulb. Assoc. Chemorecep. Sci. Abst., 12:182.
43. Smith, R.L., Baker, H., Kolstad, K., Spencer, D.D., and **Greer, C.A.** (1990). Immunohistochemical organization of the human olfactory bulb. Soc. Neurosci. Abst., 16:102.

44. Verhaagen, J., **Greer, C.A.** and Margolis, F.L. (1990). B-50/GAP43 expression in the developing and aging rat olfactory system. Soc. Neurosci. Abst., 16:657.
45. Woolf, T.B., Shepherd, G.M. and **Greer, C.A.** (1991). Electrotonic and diffusion models of interactions among dendritic spines of the mammalian olfactory bulb. Soc. Neurosci. Abst., 17:1018.
46. Halasz, N. and **Greer, C.A.** (1991). Arborization characteristics of olfactory receptor cell axons in olfactory bulb glomeruli. Soc. Neurosci. Abst., 17:1018.
47. Bartolomei, J.C. and **Greer, C.A.**, (1991), The organization of afferent fibers and local synaptic circuits in piriform cortex following mitral cell loss. Sc. Neurosci. Abst., 17:1017.
48. Bartolomei, J.C. and **Greer, C.A.** (1992). Analyses of synaptic and afferent fiber organization in piriform cortex of PCD mice following mitral cell. Assoc. Chemorecep. Sci. Abst., 14:74.
49. **Greer, C.A.** and Kaliszewski, C. (1992). Topographic courses of individual axons within the olfactory nerve. Soc. Neurosci. Abst., 18:1199.
50. Bartolomei, J.C. and **Greer, C.A.** (1993). Synaptic organization of tyrosine hydroxylase immunoreactive processes in rat olfactory bulb glomeruli. Assoc. Chemorecep. Sci. Abst., 15:125.
51. Zhao, H., Firestein, S. and **Greer, C.A.** (1993). NADPH-diaphorase localization in the olfactory system. Assoc. Chemorecep. Sci. Abst., 15:302.
52. Bartolomei, J.C. and **Greer, C.A.** (1993). Synaptic organization of immunocytochemically identified GABA and TH processes in rat olfactory bulb glomeruli. Soc. Neurosci. Abst., 19:125.
53. Woolf, T.B. and **Greer, C.A.** (1993). Models of second messenger communication within dendritic spines. Soc. Neurosci. Abst., 19:23.
54. Blakemore, L.J., Trombley, P.Q. and **Greer, C.A.** (1993). Response of olfactory bulb neurons to neurite transection. Soc. Neurosci. Abst., 19:889.
55. Zhao, H.O., Firestein, S. and **Greer, C.A.** (1993). NADPH diaphorase localization in the olfactory system. Soc. Neurosci. Abst., 19:121.
56. **Greer, C.A.** (1993). Synaptic circuitry of olfactory bulb glomeruli. Int. Symp. Olfaction and Taste Abst., 11:18.
57. Bartolomei, J.C. and **Greer, C.A.** (1994). Ultrastructural characterization of tyrosine hydroxylase and GABA immunoreactive processes in rat olfactory bulb glomeruli. Assoc. Chemorecep. Sci. Abst., 16:332.

58. Dembner, J.M. and **Greer, C.A.** (1994). Topological distribution of olfactory receptor cell axons in olfactory bulb glomeruli: A confocal microscopic analysis of Dil staining. Assoc. Chemorecep. Sci. Abst., 16:333.
59. **Greer, C.A.**, Bartolomei, J.C. and Dembner, J.M. (1994). Organization of primary afferent and local circuit synapses in the olfactory glomerulus. Microscopy Society of America Abst., 52:36.
60. **Greer, C.A.**, Dembner, J.M. and Bartolomei, J.C. (1994). Intrinsic organization of the olfactory bulb glomerulus. European Chemoreception Organiz. Abst., 11:45.
61. Chiu, K., and **Greer, C.A.** (1994). The distribution and development of GFAP staining in the rat olfactory bulb. Soc. Neurosci. Abst., 20:327.
62. Piepmeier, J., Pedersen, P. and **Greer, C.A.** (1994). Expression of EMBP in astrocytes and glioblastoma. J Neuro-Oncology Abst., 21:322.
63. Piepmeier, J., Pedersen, P. and **Greer, C.A.** (1994). Estramustine binding protein (EMBP) co-localizes with microtubule associated proteins (MAPs) in astrocytes and glioblastoma. Cong. Neurol. Surg. Abst., 44:261.
64. Tague, A. and **Greer, C.A.** (1995). Glutamate receptor subunit localization in the olfactory bulb. Assoc. Chemorecep. Sci. Abst., 17:71.
65. Wexler, B.E., Fulbright, R.K., **Greer, C.A.**, Shepherd, G.M., Bowers, A., Lacadie, C. and Gore, J.C. (1995). An fMRI study of human brain response to attractant and aversive odors. Assoc. Chemorecep. Sci. Abst., 17:219.
66. Kafitz, K.W. and **Greer, C.A.** (1995). The spatio-temporal expression of cell adhesion molecules during postnatal development of the rat olfactory bulb. Soc. Neurosci. Abst., 21:571.
67. **Greer, C.A.**, Kim, H. and Chiu, K. (1995). Subcompartmental organization of the rat olfactory bulb glomerulus. Soc. Neurosci. Abst., 21:1184.
68. Tague, A.A., Trombley, P.Q. and **Greer, C.A.** (1995). Differential expression of glutamate receptor subunits in olfactory bulb neurons. Soc. Neurosci. Abst., 21:348.
69. Sashihara, S., **Greer, C.A.**, Oh, Y. and Waxman, S.G. (1995). Sodium channel β 1 subunit mRNA in olfactory system during postnatal development and following denervation. Soc. Neurosci. Abst., 21:1823.
70. Singer, M.S., Shepherd, G.M. and **Greer, C.A.** (1995). Olfactory receptor proteins: evidence for a dual role in odor reception and axon guidance. Soc. Neurosci. Abst., 21:533.

71. **Greer, C.A.**, Rand, M.N., Leinders-Zufall, T., Shepherd, G.M. and Zufall, F. (1996). Role of IP₃-sensitive calcium stores in salamander olfactory receptor neurons. Assoc. Chemorecep. Sci. Abst., 18: 27.
72. Kasowski, H.J., Kim, H. and **Greer, C.A.** (1996). Intrinsic organization of the olfactory bulb glomerulus. Assoc. Chemorecep. Sci. Abst., 18: 35.
73. Kafitz, K.W. and **Greer, C.A.** (1996). Influence of laminin on neurite extension from rat olfactory receptor cells *in vitro*. Assoc. Chemorecep. Sci. Abst., 18: 34.
74. Singer, M., Shepherd, G.M., Hughes, T.E. and **Greer, C.A.** (1996). Olfactory receptors: a molecular basis for functional maps in the olfactory bulb. Assoc. Chemorecep. Sci. Abst., 18: 70.
75. Leinders-Zufall, T., Rand, M.W., Shepherd, G.M., **Greer, C.A.** and Zufall, F. (1996). Cyclic nucleotide-induced calcium transients in individual cilia and dendrites of salamander olfactory receptor cells. Assoc. Chemorecep. Sci. Abst., 18: 41.
76. Montague, A.A. and **Greer, C.A.** (1996). Differential localization of ionotropic glutamate receptor subunits in the developing olfactory bulb. Assoc. Chemorecep. Sci. Abst., 18: 52.
77. Kafitz, K.W. and **Greer, C.A.** (1996). The expression of cell adhesion mediating molecules during the postnatal development of the rat olfactory bulb. Proc. Gottingen Neurobiol. Conf., 24: 301.
78. Kafitz, K.W. and **Greer, C.A.** (1996). Substrate preference of olfactory receptor cell neurites *in vitro*. Soc. Neurosci. Abst., 22: 351.
79. Klenoff, J.R. and **Greer, C.A.** (1996). Developmental morphometrics of olfactory receptor axonal arbors. Soc. Neurosci. Abst., 22: 220.
80. Montague, A.A., Au, W. and **Greer, C.A.** (1996). Differential expression of glutamate receptor subunits in developing rat olfactory bulb. Soc. Neurosci. Abst., 22: 413.
81. Zufall, F., Leinders-Zufall, T., Rand, M.N., Shepherd, G.M. and **Greer, C.A.** (1996). Odor-stimulated calcium signaling in cilia and dendrites of olfactory receptor neurons. Soc. Neurosci. Abst., 22: 53.
82. Leinders-Zufall, T., Rand, M.N., Shepherd, G.M., **Greer, C.A.** and Zufall, F. (1996). Confocal imaging reveals calcium transients in individual cilia and dendrites of salamander olfactory receptor neurons. Proc. Gottingen Neurobiol. Conf., 24: 304.
83. **Greer, C.A.**, Kasowski, H.J. and Kim, H. (1996). Distribution of synaptic vesicle proteins in axonal and dendritic processes within the mammalian olfactory bulb glomerulus. Europ. Chemosens. Res. Org. Abst., 12: 24.

84. Leinders-Zufall, T., Rand, M.N., Shepherd, G.M., **Greer, C.A.** and Zufall, F. (1997). Visualizing odor detection in single olfactory cilia by monitoring calcium entry through cyclic nucleotide-gated channels. Biophysics Journal 72: A286.
85. Hua, H., A.U. Zaidi, D. Eberweln, J. Curtin, C. Ouellete, E. Piasentin, **C.A. Greer**, K.W. Kafitz and B.S. Zielinski(1997). Organization of the Olfactory bulb (OB) in the larval sea lamprey, *Petromyzon marinus*. *Chemical Senses* 22: 705.
86. Kafitz, K. W. and **C.A. Greer** (1997). The influence of ensheathing cells on olfactory receptor cell neurite outgrowth *in vitro*. *Chemical Senses* 22: 712.
87. Leinders-Zufall, T., **C.A. Greer**, G.M. Shepherd and F. Zufall. Visualizing odor detection in olfactory cilia by calcium imaging. *Chemical Senses* (1997) 22: 731.
88. Lipscomb, B.W., K.W. Kafitz and **C.A. Greer** (1997). Characterization of glomeruli differentially labeled with the lectin *Dolichos biflorus*. *Chemical Senses* 22: 736.
89. Singer, M.S., T.E. Hughes, G.M. Shepherd and **C.A. Greer** (1997). Molecular basis for an odor map: rt-pcr of olfactory receptors from the olfactory bulb glomerular layer. *Chemical Senses* 22: 794.
90. Yang, X., F. Hyder, M. Siddeek, **C.A. Greer**, G.M. Shepherd and R.G. Shulman (1997). Odor-induced activation in rat olfactory bulb observed by functional magnetic resonance imaging. *Chemical Senses* 22: 828.
91. Zaidi, A.U., **C.A. Greer**, K.W. Kafitz and B.S. Zielinski (1997). Evidence that tenascin (TN) signals axonal outgrowth by negative repulsion during regeneration of the olfactory nerve in larval sea lampreys. *Chemical Senses* 22: 832.
92. Zaidi, A.U., K.W. Kafitz, **C.A. Greer** and B.S. Zielinski (1997). Tenascin influences olfactory receptor neuron axon growth in the larval sea lamprey olfactory nerve. *Society For Neuroscience, Abstracts* 23: 602.
93. Kafitz, K.W., T. Leinders-Zufall, F. Zufall and **C.A. Greer** (1997). Cyclic GMP-induced calcium transients in growth cones of cultured rat olfactory receptor cells. *Society For Neuroscience, Abstracts* 23: 603.
94. Lipscomb, B.W., K.W. Kafitz and **C.A. Greer** (1997). Differential co-localization of the lectin *dolichos biflorus* with olfactory marker protein. *Society For Neuroscience, Abstracts* 23: 737.
95. Leinders-Zufall, T., K. W. Kafitz and **C.A. Greer** (1997). Membrane properties of salamander olfactory receptor neurons after olfactory nerve transection. *Society For Neuroscience, Abstracts* 23: 737.

96. **Greer, C.A.**, K.W. Kafitz and F.L. Margolis (1997). Immunocytochemical localization of ribosomes with Y10B in the early postnatal and adult rat olfactory. Society For Neuroscience, Abstracts 23: 739.
97. Zufall, F., T. Leinders-Zufall, G.M. Shepherd, **C.A. Greer** (1997). Calcium store depletion by thapsigargin does not affect olfactory signal transduction. Society For Neuroscience, Abstracts 23: 741.
98. Singer, M.S., T.E. Hughes, G.M. Shepherd and **C.A. Greer** (1997). Isolation and analysis of olfactory receptor mRNA from olfactory bulb glomerular layer. Society For Neuroscience, Abstracts 23: 1270.
99. Yang, X., F. Hyder, M. Siddeek, **C.A. Greer**, G.M. Shepherd and R.G. Shulman (1997). Odor-induced activation in rat olfactory bulb observed by functional magnetic resonance imaging. Society For Neuroscience, Abstracts 23: 2077.
100. Kafitz K.W., Margolis F.L., and **Greer C.A.** (1998). Ribosomes are rarely found in olfactory receptor cell axons or terminals. Proceedings of the 26th Göttingen Neurobiology Conference, (Eds. Elsner N. & Wehner R.) Vol. II: 357.
101. Kafitz K.W., Leinders-Zufall T., Zufall F., und **Greer C.A.** (1998). Cyclic GMP promotes localized Ca²⁺ transients in growth cones of rat olfactory receptor cells through activation of putative cyclic nucleotide-gated channels. In: Proceedings of the 26th Göttingen Neurobiology Conference, (Eds. Elsner N. & Wehner R.) Vol. II: 358.
102. Kafitz K.W., Leinders Zufall .T, Zufall F., and **Greer C.A.** (1998). Localized Ca²⁺ transients promoted by cyclic GMP in growth cones of rat olfactory receptor cells. *Europ. J. Neurosci.* 10 (Suppl. 10), p359.
103. Leiders-Zufall, T., Kafitz, W.K., and **Greer, C.A.** (1998). Properties of cyclic-nucleotide-gated currents and odor responses in salamander olfactory receptor neurons after olfactory nerve transection. *Chemical Senses* 23:623.
104. Treloar, H., Purcell, A., and **Greer, C.A.** (1998). How does a mammalian olfactory glomerulus form? *Chemical Senses* 23:597.
105. Yang, X., Renken, R., Hyder, F., Sideek, M., **Greer, C.A.**, Shepherd, G.M., and Shulman, R.G. (1998). Dynamic mapping of odor-elicited response in rat olfactory bulb by functional magnetic resonance imaging. *Chemical Senses* 23:567.
106. Zufall, F., **Greer, C.A.** , Shepherd, G.M., and Leinders-Zufall, T. (1998). Mapping the molecular receptive range of individual olfactory cilia by high-resolution calcium imaging. *Chemical Senses* 23:576.
107. Bartolomei, J.C. and **Greer, C.A.** (1998). Differential axon extension from DRG cells on poly-l-lysine, laminin, ensheathing cell, and cortical astrocyte substrates. Society for Neuroscience Abstracts 24:1054.

108. **Greer, C.A.**, Bartolomei, J.C. and Spencer, D.D. (1998). Calcium transients and oscillatory waves in cortical astrocytes following chronic exposure to glutamate. Society for Neuroscience Abstracts 24:2142.
109. Hanson, M.E., Chen, W.R., and **Greer, C.A.** (1998). Morphological characteristics of growth cones in olfactory bulb neuron cultures. Society for Neuroscience Abstracts 24:536.
110. Treloar, H., Yoshihara, Y., Mori, K., and **Greer, C.A.** (1998). O-cam may act as an axon guidance molecule to specify the dorsomedial-ventrolateral axis of the developing olfactory bulb. Society for Neuroscience Abstracts 24:1143.
111. **Greer, C.A.** and Treloar, H. (1998). Early development and intrinsic organization of the mammalian glomerulus. European Chemoreception Research Organization Congress XIII: 8.
112. Xu, F., Yang, X., Hyder, F., **Greer, C.A.**, Shepherd, G.M., Shulman, R.G. (1999). Adaptation properties in rat olfactory bulb layers studied by functional magnetic resonance imaging (fMRI). Society for Neuroscience Abstracts 25: 130.
113. Yang, X., Xu, F., Renken, R. Hyder, F., **Greer, C.A.**, Shepherd, G.M., Shulman, R.G. (1999). Dependence of olfactory bulb response on the duration of odor exposure revealed by functional magnetic resonance imaging. Society for Neuroscience Abstracts 25: 1050.
114. Treloar, H.B., Yoshihara, Y., Mori, K., **Greer, C.A.** (1999). The role of O-CAM in establishing topographic projections between olfactory neuroepithelium and the olfactory bulb AChemS Abstract 21: 39.
115. Lipscomb, B.W., Treloar, H.B., **Greer, C.A.** (1999). Labeling of olfactory ensheathing cells by the lectin phaseolus vulgaris (PHA-E) AChemS Abstract 21: 25.
116. Gabeau, D. and **Greer, C.A.** (1999). Olfactory bulb granule cells *in vitro*: anaxonic, GABAergic and spinous. AChemS Abstract 21: 36.
117. Yang, X., Xu, F., Renken, R., **Greer, C.A.**, Shepherd, G.M., Shulman, R.G. (1999). Dependence of olfactory bulb activation on the duration of odor exposure revealed by fMRI AChemS Abstract 21: 44.
118. Xu, F., Yang, X., Hyder, F., **Greer, C.A.**, Shepherd, G.M., Shulman, R.G. (1999). Modulation of neuronal activities in olfactory bulb layers studied by functional magnetic resonance imaging AChemS Abstract 21: 45.
119. **Greer, C.A.** (1999). Olfactory Glomeruli: Intrinsic organization AChemS Abstract 21: 168.

120. Zufall, F., Leinders-Zufall, T., Shepherd, G.M., **Greer, C.A.** (1999). Intracellular CA^{2+} stores control the waveform of odor-induced CA^{2+} transients in the dendrite and soma but not in the cilia of olfactory receptor neurons AChemS Abstract 21: 25.
121. Treloar, H.B., Yoshihara, Y., Mori, K., **Greer, C.A.** (1999). The role of O-CAM in establishing topographic projections between the olfactory neuroepithelium and the olfactory bulb AChemS Abstract 21: 39.
122. Au, W.W., Treloar, H.B. and **Greer, C.A.** (1999). Sublaminar organization of glia and axons within the olfactory bulb nerve layer. Society for Neuroscience Abstracts 25: 129.
123. Treloar, H.B., Feinstein, P., Zheng, C., Mombaerts, P. and **Greer, C.A.** (1999). Specificity of glomerular targeting by axons of olfactory sensory neurons that express the *m72-ires-taugfp* mutation. Society for Neuroscience Abstracts 25: 386.
124. Hanson, M.E. and **Greer, C.A.** (1999). Dendritic growth cones in the developing olfactory bulb. Society for Neuroscience Abstracts 25: 128.
125. Lipscomb, B. and **Greer, C.A.** (2000). Characterization of a novel set of small glomerular-like structure in the mouse main olfactory bulb. AChemS Abstract 22: 23.
126. Kim, H. and **Greer, C.A.** (2000). The emergence of compartmental organization in olfactory bulb glomeruli during postnatal development. AChemS Abstract 22: 23.
127. Gabeau, D. and **Greer, C.A.** (2000). The properties of granule cell dendritic spines in culture. AChemS Abstract 22: 43.
128. Xu, F., Kida, I., Hyder, F., **Greer, C.A.**, Shepherd, G. and Shulman, R.G. (2000). Odor elicited activity patterns in rat main olfactory bulb map[ped by functional magnetic resonance imaging. AChemS Abstract 22: 72.
129. Treloar, H.B. and **Greer, C.A.** (2000). Expression of extracellular matrix molecules during olfactory glomerular formation. Int. Soc. Develop. Neurosci. Abst. 13: 109.
130. Treloar, H.B., Feinstein, P., Zheng, C., Mombaerts, P. and **Greer, C.A.** (2000). Plasticity in the primary olfactory projection: paths sensory axons take to find their target glomeruli. Int. Symp. Olfact. and Taste 13: 87.
131. Gabeau, D. and **Greer, C.A.** (2000). Targeting of pre- and postsynaptic proteins to granule cell dendritic spines. Society for Neuroscience Abstracts 26: 117.5.
132. Treloar, H.B. and **Greer, C.A.** (2000). Olfactory glomerular development: the role of extracellular matrix proteins. Society for Neuroscience Abstracts 26: 638.11.
133. Lipscomb, B.W., Treloar, H.B. and **Greer, C.A.** (2000). Localization of a lectin to olfactory nerve ensheathing and schwann cell glia. Society for Neuroscience Abstracts 26: 638.15.

134. Ma, M, **Greer, C.A.** and Shepherd, G (2001). Functional characterization of the mouse septal organ. Society for Neuroscience Abstracts 27: 61.
136. Miller, A., Spencer, D. and **Greer, C.A.** (2001). Subcortical white matter cells in human mesial temporal lobe epilepsy. Society for Neuroscience Abstracts 27: 756.
137. Xu F., Hyder F., **Greer C.A.**, Rothman D., Shepherd G.M. (2001). Odor elicited activity patterns in the mouse olfactory bulb revealed by FMRI. AChemS 23:274
138. Treloar H.B., Shay E.L., **Greer C.A.** (2001). Development of olfactory glomeruli: the role of extracellular matrix molecules. AChemS 23:289.
139. Zou D.J., **Greer C.A.**, Firestein S.J. (2001). CAKII expression patterns in the mouse main olfactory bulb. AChemS 23:352.
140. Lipscomb B.W., Treloar H.B., **Greer C.A.**. (2001). Localization of a lectin to olfactory nerve ensheathing and Schwann cell glia. AChemS 23:355.
141. Ma M., **Greer C.A.**, Shepherd G.M. (2001). The septal organ, an attractive model system for olfactory coding study. AChemS 23:367.
142. **Greer, C.A.**, Au, W., Whitley, M.K., Akins, M.R. and Treloar, H.B. (2002). Axon sorting in the olfactory nerve layer. Int. J. Develop. Neurosci. 19: 695.
143. Treloar, H.B., Uboha, U., Jeromin, A. and **Greer, C.A.** (2002). NCS-1 in the developing olfactory system: modulator of olfactory signal transduction? Int. J. Develop. Neurosci., 19: 714.
144. Iwema, C.L., Bartolomei, J.C., Strittmatter, S.M., **Greer, C.A.** (2002). Nogo-A and Nogo-66 receptor expression in the developing olfactory system. Society for Neuroscience Abstracts 32:132.2.
145. Tookes, H., Yoshihara, Y., Mori, K. and **Greer, C.A.** (2002). Telencephalin expression in the developing mouse olfactory bulb. AChemS 24.
146. **Greer, C.A.**, Iwema, C.L., Akins, M.R., Tookes, H. and Treloar, H.B. (2002). Sensory axon targeting and synapse specificity in olfactory glomeruli. European Chemoreception Research Organization Abstract, 2002.
147. Tookes, H., Yoshihara, Y., Mori, K. and **Greer, C.A.** (2002). Telencephalin expression in granule cells of the developing mouse olfactory bulb. Society for Neuroscience Abstract, 2002.
148. Iwema, C.L., Bartolomei, J.C., Strittmatter, S.M., **Greer, C.A.** (2002). Nogo & Nogo receptor expression in the mammalian olfactory system. Association for Chemoreceptive Sciences Abstr. Chemical Senses 27:A56.

149. Klenoff, J.R., Lipscomb, B.W., **Greer, C.A.**, and Treloar, H.B. (2002) Carbohydrate domains in the mouse main olfactory bulb. Society for Neuroscience Abstracts 32:846.8
150. Akins M.R., Treloar H.B., Bekirov I.H., Benson D.L., and **Greer C.A.** (2002) Cadherins and catenins in olfactory pathway development. Society for Neuroscience Abstracts 32:132.1
151. Beech R.D., Treloar H.B., Eisch A.J., Harrist A.V., Zhong W., **Greer C.A.**, Duman R.S., Picciotto M.R. (2002) Inducible transgene expression in adult-generated periglomerular neurons. Society for Neuroscience Abstracts 32:817.2
152. Ma, M., Iwema, C.L., Jian, L., **Greer, C.A.**, Shepherd, G.M. (2003). Molecular organization of the mouse septal organ. *ACChemS* 25: 377.
153. Iwema, C.L., Strittmatter, S.M., **Greer, C.A.** (2003). Neurite stability in the mouse olfactory system: the role of Nogo, p75, & RhoA. *ACChemS* 25: 281.
154. Treloar H.B., Yang Y., and **Greer C.A.** (2003) Tenascin-C is an inhibitory guidance molecule in the developing mouse olfactory bulb. *ACChemS* 24:278.
155. Whitley M.K., Treloar H.B., De Arcangelis A., Georges E., and **Greer C.A.** (2003) Expression of the Alpha 6 Integrin Subunit in the Developing Mouse Olfactory System. *ACChemS* 24:276.
156. Kocsis, J., Akiyama, Y., Lankford, K., Radtke, C., Agulian, S. and **Greer, C.A.** (2003). Remyelination of the rat spinal cord by Schwann cells and olfactory ensheathing cells derived from transgenic rodents expressing an alkaline phosphatase or GFP marker gene. Society for Neuroscience Abstracts: 33.
157. Akins, M.R. and **Greer, C.A.** (2003). Cadherin and catenin expression in the developing mouse olfactory system. Society for Neuroscience Abstracts: 33.
158. Iwema, C.L. and **Greer, C.A.** (2003). MAG expression in the developing, mature, and regenerating mouse olfactory epithelium. Society for Neuroscience Abstracts: 33.
159. Iwema, C.L., Dodds, T., Chin, J. and **Greer, C.A.** (2004). OEC dynamics in the olfactory system of methimazole-lesioned and control mice. *ACChemS* Abstract.
160. Iwema, C.L., Dodds, T. Chin, J. and **Greer, C.A.** (2004). Cellular dynamics in the regenerating mouse olfactory system: the role of olfactory ensheathing cells. Society for Neuroscience Abstracts: 34.
161. Akins, M.R. and **Greer, C.A.** (2004). Cadherins, catenins, and axon targeting in the olfactory system. Society for Neuroscience Abstracts: 34.

162. Treloar, H.B., and **Greer, C.A.** (2004). Tenascin-c: an inhibitory guidance molecule in the developing mouse olfactory bulb. Society for Neuroscience Abstracts: 34.
163. Zou, D., Fineststein, P., Rivers, A., Matthews, G., Kim, A., **Greer, C.A.**, Mombaerts, P. and Firestein, S. (2004). Postnatal refinement of peripheral olfactory projections. Society for Neuroscience Abstracts: 34.
164. Miller, A., Treloar, H. and **Greer, CA** (2005). Onset of olfactory sensory neuron molecular phenotype in the early embryonic mouse. AChemS Abstracts.
165. Treloar, H, Dinglasen, L.V. and **Greer, CA** (2005). Tenascin-C and its receptors and binding partners in the developing olfactory system. AChemS Abstracts.
166. Miller, A.M., Treloar, H.B. and **Greer, C.A.** (2005). Molecular differentiation of olfactory sensory neurons in the early embryonic mouse. Society for Neuroscience Abstracts: 35.
167. Rand, M. and **Greer, C.A.** (2005). Mitral cell dendritic development in the mouse olfactory bulb. Society for Neuroscience Abstracts: 35.
168. Iwema, C.L., Lee, J.C. and **Greer, C.A.** (2005). Odorant receptor expression in the developing mouse olfactory system. Society for Neuroscience Abstracts: 35.
169. Willhite, D.C., Nguyen, K.T., **Greer, C.A.**, Chen, W.R. and Shepherd, G.M. (2005). Columnar organization in the olfactory bulb revealed by viral transsynaptic labeling. Society for Neuroscience Abstracts: 35.
170. Rodriguez Gil, D.J. and **Greer, C.A.** (2005). Expression of WNT and FZ mRNA in the developing mouse olfactory system. Society for Neuroscience Abstract: 35.
171. Treloar, H.B., Morton, M. and **Greer, C.A.** (2005). NG2-expressing glia in the mouse olfactory bulb. Society for Neuroscience Abstracts: 35.