CURRICULUM VITAE

DONALD G. STEIN, Ph.D. Asa G. Candler Professor Department of Emergency Medicine Emory University School of Medicine Emory College of Arts and Sciences

	ADDRESS	Brain Research Laboratory
--	---------	---------------------------

Suite 5100

1365 B Clifton Road Atlanta, Georgia 30322

Website brainresearchlab.weebly.com

EDUCATION

1960	Bachelor of Arts (honors), Experimental Psychology, Michigan State University
1962	M.A., Experimental-Comparative Psychology, Michigan State University
1965	Ph.D., Psychology, University of Oregon
1965-66	Post-doctoral Fellowship, National Institute of Health, Massachusetts Institute of Technology

PROFESSIONAL EXPERIENCE

1966-69	Assistant Professor of Psychology, Clark University, Worcester, Massachusetts
1969-73	Associate Professor of Psychology; Director of the Brain Research Laboratory, Clark University, Worcester, Massachusetts
1973-88	Professor of Psychology; Director of the Brain Research Laboratory, Clark University, Worcester, Massachusetts
1978-86	Professor of Neurology, University of Massachusetts Medical Center
1988-95	Dean, Graduate School; Associate Provost for Research; Professor of Psychobiology and Biological Sciences, Rutgers - The State University of New Jersey
1990-95	Adjunct Professor of Neuroscience and Neurology, University of Medicine and Dentistry of New Jersey
1995-00	Vice Provost and Dean, Graduate School of Arts and Sciences; Professor of Psychology and Neurology, Emory University
1999-00	Interim Vice President for Research, Emory University
2000-2010	Asa G. Candler Professor with Faculty Appointments in Emergency Medicine, Neurology and Psychology (adjunct-Jan. 2002), Emory University

- 2010-2015 Asa G. Candler Professor and Distinguished Professor of Emergency Medicine, Emory University
- 2015- Asa G. Candler Professor and Distinguished Professor in Emergency Medicine, Emory University

TEACHING EXPERIENCE AND INTERESTS

General Physiological Psychology Recovery from Brain Injury Pharmacology of Brain Damage and Recovery History of Brain Function Science and Public Policy Neuroethics and commercialization of the academy

AREAS OF SPECIALIZATION AND RESEARCH INTERESTS

The role of neurosteroids in recovery of function after traumatic brain injury and stroke in both young and aged subjects, and the development of neurosteroids as potential adjunct for the treatment of certain types of brain cancers.

AWARDS AND HONORS

- National Institutes of Mental Health Pre-Doctoral Research Fellowship, University of Oregon, Eugene, Oregon, September 1963-August 1965
- National Institutes of Mental Health Post-Doctoral Research Fellowship, Massachusetts Institute of Technology, September 1965-August 1966
- Fulbright Scholar, Claude Bernard University, Lyon, France, 1971-72
- Fulbright Scholar, INSERM, Kremlin-Bicêtre Hospital, Paris, France 1971
- Government of France Ministry of Foreign Affairs Fellowship, September 1971-June 1972
- Fulbright Travel Award to France, September 1975
- Government of France Visiting Scientist, Université Louis Pasteur, Strasbourg, France, 1977, 1980, 1982, 1983, 1984, 1988 and 1989
- Government of France appointment to Hospital Neurologique, Institut National de Santé et Recherche Médicale at Lyon, France, September 1975-August 1976
- Government of France appointment as "Professeur Associé," University of Nice, France, 1977
- Society for Neuroscience: Grass Foundation Traveling Scientist Award, February 1979
- Institut National de Santé et Recherche Médicale Visiting Scientist, Paris, France, 1979
- American Association for the Advancement of Science Congressional Fellowship in Science and Engineering, U.S. Senate, Washington, DC, September 1980-August 1981
- Who's Who in America
- Who's Who in Frontier Science and Technology
- Fellow, American Association for the Advancement of Science
- Fellow and Charter Member, American Psychological Society
- Dean's Alumni Achievement Award, University of Oregon 1999
- President, Winter Conference on Brain Research, 1992–94
- Chair, Winter Conference on Brain Research, Fellowships Committee of 1995–2000

- Chair, New York Academy of Sciences Section on Biomedical Sciences, 1993–94
- Fulbright Research Scholar Fellowship, Paris, France, 2001
- Halle Institute Faculty Study Trip: India, January 2003
- North American Brain Injury Society (NABIS) award for scientific contributions to enhancing recovery from brain injury, Tampa Florida, 2005
- President, International Brain Injury Association, 2005-2007
- Board of Governors, International Brain Injury Association, 2005-2016
- Scientific Chair, Academy of Multidisciplinary Neurotraumatology, 2005-2011
- Scientific Counselor, World Federation of Neurorehabilitation, 2005-present
- Erskine Visiting Fellowship, University of Canterbury, Christchurch, New Zealand, March-April 2007
- Wayner-NOXXE Award for major scientific contributions to behavioral neuroscience, International Behavioral Neuroscience Society, Rio De Janiero, Brazil, June 2007
- Association for Psychological Science, Festschrift for Donald Stein, San Francisco, May 2009
- Erskine Visiting Fellowship, University of Canterbury, Christchurch, New Zealand, February-March 2010
- Emory University Game-Changer Award, September 2010
- Erskine Visiting Fellowship, University of Canterbury, Christchurch, New Zealand, February-April, 2013
- Emory University School of Medicine Dean's Distinguished Lecture and Award, 2013
- Brain Injury Association of America William Fields Caveness Award for Research, 2013
- American Psychological Association, 20th annual Neal Miller Distinguished Lecture, APA Convention, Honolulu, HI, 2013
- Philip L. Lance Award for Public Awareness of Brain Injury, Hinds Feet Farm, Charlotte, NC, 2014
- Jennett Plum Award for Clinical Achievement in the Field of Brain Injury Medicine, International Brain Injury Association, San Francisco CA, 2014
- Henry Stonnington Award for Best Brain Injury Review Paper of 2015, International Brain Injury Association, 2016
- Emory University Postdoctoral Association Best Mentor award, 2016

RESEARCH GRANTS AND CONTRACTS AWARDED

- NIMH Neurological Sciences Training Grant, Departments of Psychology and Biology, Clark University (9/66-8/68)
- USPHS Research Grant: Facilitation of learning by electrical stimulation of hippocampus. PI (1967-1968)
- NSF Research Grant: Facilitation of learning by alteration of CNS development, with J.J. Brink as Co-Principal Investigator (10/1/67-1/31/70)
- USPHS Biomedical Sciences Grant, in support of several projects (1968-1969)
- NINCDS Research Grant: Recovery of function in CNS. Principal Investigator (1969–1973)
- NSF Research Grant: Facilitation of learning by alteration of CNS development. PI (1970)
- NIMH Research Career Development Award. Principal Investigator (1972-1978)
- NIA Research Grant: The psychobiology of aging. Principal Investigator (1976-1979)
- NIA Research Grant: International Conference on "The Psychobiology of Aging" (1979-1980)

- NIA Research Grant: Aging, nerve growth factor and brain function. Principal Investigator (1979-1982)
- Foundation for Nutritional Advancement Research Grant: Antioxidants and recovery from CNS injuries. Principal Investigator (1979-1982)
- USAMRDC Research Grant: The neurotrophic substances and behavioral recovery from brain damage. Principal Investigator (1982-1983)
- Fidia Research Laboratories Research Grant, Abano Terme, Italy: Gangliosides and brain function. Principal Investigator (1983-1993)
- Fidia Research Laboratories Research Grant, Abano Terme, Italy: The effects of GM1 gangliosides on recovery of function after brain injury. Principal Investigator (1989-1992)
- NIH Research Grant: Fetal brain transplants and recovery from brain damage (7/1/84-6/30/87)
- American Paralysis Association Research Grant: Fetal brain tissue transplants and behavioral recovery from central nervous system injury. Principal Investigator (1984-1987)
- Grant to organize the Luxembourg International Conference on "Pharmacological approaches to the treatment of brain and spinal cord injury," Walferdange, Luxembourg (7/7-7/11/86)
- NINDS Research Grant: Fetal brain transplants and recovery from brain damage. PI (1/1/85-4/30/92)
- Biomeasure, Inc. Research Grant: Evaluation of the neurotrophic effects of ginkgo biloba extract upon CNS lesions. Principal Investigator (1987-1989)
- Biomeasure, Inc. Research Grant: Further investigations on the effects of the ACTH/-MSH analogue BIM-22105 on recovery of function after brain injury. PI (1989-91)
- GENRE Corporation: Trophic factors and recovery from brain damage in development, maturity and senescence (1/1/91-12/31/98)
- IPSEN Pharmaceutical: Ginkgo biloba extracts and recovery from traumatic brain damage (1992-97)
- GENRE Corporation: The effects of progesterone on the immune system and on recovery from traumatic brain injury in rats (1998-2003)
- Field Neurosciences Institute: The morphological and behavioral effects of progenitor cell and progesterone treatments on recovery from contusion injury of the frontal cortex in rats (2000-02)
- Health and Human Services (CDC): Progesterone and recovery from brain damage (1993-1999)
- NINDS Clinical Trial Planning Grant participant and consultant: Progesterone as treatment for traumatic brain injury (2001-2004)
- NINDS Research Grant: The Neuroprotective mechanisms of progesterone after traumatic brain injury (03/1/01- 02/28/05)
- NINDS Research Grant: The Neuroprotective effects of progesterone and its metabolites on recovery from traumatic brain injury (12/01/01-11/30/05)
- NIHCD grant: The effects of chronic dihydroepiandrosterone (DHEA) administration on recovery of function after traumatic brain injury (04/01/01-03/31/03)
- Robert Wood Johnson Foundation Grant to organize, develop and present a symposium on "The Commercialization of Academia," Emory University, June 2002
- Senator Sam Nunn Policy Forum, Bank of America grant in support of symposium on the commercialization of academia (see above)
- NICHD supplement: The efficacy of progesterone compared to that of thyrotropin releasing hormone (TRH) in the functional outcome of traumatic brain injury, 2005; 2007
- NIH/NICHD: Progesterone, TBI and CNS repair in mature and aged rats, 2005-2010

- United States Army Medical Research and Materiel Command: Progesterone in the Field-Forward Treatment of Traumatic Brain Injury, 2008-2009
- NIH: R01 Combination of progesterone and vitamin D in the treatment of traumatic brain injury, 2010-2013
- Emory Center for Injury Control (PI, Houry), Project #4: Preclinical assessment of Progesterone Treatment for Pediatric Traumatic Brain Injury, 2014
- NIH R21: (Hua) Role of Toll-like receptor-2 and -4 in the secondary brain damage following traumatic brain injury, Co-PI, 2010-2012
- NIH U01: Progesterone in the treatment of ischemic stroke, 2010-2013
- American Heart Association SDG 0830481N (Sayeed): Co-Investigator, 2011-2014

PROFESSIONAL ACTIVITIES

Reviewer of grant applications

National Science Foundation - Psychobiology and Neurobiology Divisions

National Institutes of Health, Ad Hoc Study Section, Neuroscience Training Grant Reviews

Ipsen Pharmaceutical Corporation, Alzheimer's Association, American Paralysis Association

Consultant to the Canadian National Stroke Network: Scientific Advisory Committee

Expert Committee, Canada Foundation for Innovation Fund

Consultant to "Enhancing Rehabilitation Research in the South" (ERRIS) project sponsored by NCMRR

Consultant NIH review of the RFA HD-03-025, Genetic Basis of Recovery & Rehabilitation. Bethesda MD, March 2004

Member, National Advisory Child Health and Human Development Council, 2004-2008

Member, CDC TBI Portfolio review panel, 2007

Member, Executive Planning Committee, NICHD, 2007-2009

Reviewer, Rehabilitation Research & Development, Department of Veterans Affairs, 2012, 2017

Past and/or present Editorial Board Memberships:

Founding Editor, Restorative Neurology and Neuroscience (Editorial Board)

Co-editor, *Pediatric Rehabilitation*

Co-editor, Developmental Neurorehabilitation (formerly Pediatric Rehabilitation)

Founding Editor, Brain Injury Professional

Editorial Board, Behavioral and Neural Biology

Editorial Board, Behavioral Brain Research

Editorial Board, Brain Injury

Editorial Board, J. Cell Transplantation

Editorial Board, Progress In Brain Research

Editorial Board, Future Neurology

Editorial Board, Neurotrauma Letters

Memberships

Fellow, American Association for the Advancement of Science

Fellow, American Psychological Society

European Brain and Behavior Society

Association of Fulbright Fellows

International Behavioral Neuroscience Society

International Brain Injury Association (Board of Governors)
International Brain Research Organization
New York Academy of Sciences
Neurotrauma Society
Phi Beta Kappa
Society for Neuroscience
Sigma Xi Scientific Honorary

CIVIC ORGANIZATIONS/COMMUNITY SERVICE

Initiated and organized a Science and Technology Political Action Committee (SCITEC-PAC) to support federal candidates committed to basic research and development

Planned and organized fund-raising activities for the development of the political action committee

Prepared press releases and interviews for SCITEC-PAC

Founded and organized the National Coalition for Science and Technology

SERVICE TO EMORY

Courses taught 2004-present

- IBS 770 Spring 2005
- IBS 770/NBB470S Fall 2006

Individual classes taught

- Chemistry 729, Fall 2010
- NBB 361, Spring 2010
- NBB 401, Spring 2011
- NBB 103, Fall 2016

Undergraduate theses supervised, 2014-2015

Neil Patel, NBB program, 2015

Undergraduate lab rotations supervised, 2014-215

Liz Perez, class of 2014

Cherrie Liu, class of 2016

Constance Zhang, class of 2014

PhD student advisor/committee member, 2010-2015

Rachael Stewart Allen, Ph.D., 2014

Monica Chau, Ph.D., 2014

Post-doctoral Mentor 2015-present

Elena Sergeeva, PhD.

Claudia Espinoza-Garcia, PhD.

Nefize Turan, MD

Committees 2004-present

- Comprehensive Neurosciences Center Stroke Program Planning Committee, 2005, 2008
- Fringe Benefits Committee, 2006, 2008
- Search Committee, Rehabilitation Medicine Chair, 2005-2006
- Mind, Brain & Neuroscience Brainstorming subcommittee of the Strategic Planning Steering Committee
- Search Committee, Emergency Medicine Chair, 2007

- Neuroscience Leadership Initiative Committee, 2007-2008
- Emergency Medicine Appointments and Promotions, 2013-present

Other

- MD-PhD program recruitment
- Neuroscience recruitment
- Editorial advisor, Academic Exchange, 2003-2009

Emory Alumnae Program Speaker

Back to Class: Emory in Chicago, April 2014

PRESENTATIONS AND INVITED COLLOQUIA

- University of Toronto, Spring 1970
- McGill University, Montreal, Canada, Fall 1970
- The biochemical bases of learning and memory. Aphasia Research Conference, VA Hospital, Boston MA, 1970.
- Recovery of function following frontal lobe lesions in the rhesus monkey. Eastern Psychological Association Meeting, New York, NY, April 1971.
- Worcester Foundation for Experimental Biology, Shrewsbury, MA, April 1971
- Department of Psychology, State University of New York, Stony Brook, NY, April 1971
- Department of Psychology, Washington University, St. Louis, MO, April 1971
- Faculté de Médecine, St. Etienne, France, January 1972
- Institut National de Santé et Recherche Médical, Lyon, France, March 1972
- Faculty of Medicine, Institute of Psychology, University of Milan, Milan, Italy, April 1972
- Faculty of Medicine, Institute of Psychology, Catholic University, Rome, Italy, April 1972
- Institute of Psychology, Hacettepe University, Ankara, Turkey, May 1972
- Faculty of Medicine, University of Tours, Tours, France, June 1972
- Mt. Holyoke College, South Hadley, Massachusetts, February, 1973
- Worcester Foundation for Experimental Biology, Shrewsbury, MA, Fall 1974
- Children's Hospital Research Center, Harvard Medical School, Boston, MA, March 1975
- Université de Compiègne, Compiègne, France, April 1975
- Instructor: Short course on Neuroplasticity and Recovery of Function. 6th Annual Meeting, Society for Neuroscience, Toronto, Canada, November 1976
- University of Pennsylvania Medical College, Philadelphia, PA, February 1977
- New York University Medical School, New York, NY, February 1977
- Psychology Department, Harvard University, Cambridge, MA, March 1977
- Université Paul Valery, Montpelier, France, 1976
- Unité de Recherches de Physiopathologie du Systeme Nervous, Lyon, France, 1976
- Unité de Recherches, Neurological Hospital, Paris, France, 1976
- University of Cambridge, Cambridge, England, 1976
- National Institute of Medical Research, Mill Hill, England, 1976
- University College, London, England, 1976
- Ecole des Hautes Etudes, Paris, France, 1976
- Université de Lausanne Facultée de Médecine, Institut de l'Anatomie, Lausanne, France,
 1976

- Université de Genève Ecole de Psychologie, Geneva, France, 1976
- Université de Nice Faculté des Sciences, Nice, France, 1976
- Hôpital Jules Cormond, Facultée de Médecine, Lyon, France, 1976
- Université Claude Bernard Faculté de Médicine, Lyon, France, 1976
- Musée de l'Histoire Naturelle, Paris, France, 1976
- University of Pittsburgh, Pittsburgh PA, 1977
- Brandeis University, Waltham MA, 1977
- University of Connecticut, Storrs CT, 1977
- Recovery from brain damage: Behavioral and morphological aspects (panel member and Workshop Chairman) Annual Winter Brain Research Conference, Keystone, CO, January 1978
- University of Illinois, Urbana IL, 1978
- National Institutes of Health Laboratory of Developmental Neurobiology, Bethesda MD, 1978
- Boston University School of Rehabilitation Medicine, Boston MA, 1978
- University of South Florida, Grass Foundation Traveling Scientist, Tampa FL, 1978
- University of Florida, Gainesville, FL, 1978
- Columbia University, Teachers College, New York, NY, 1978
- Tufts University, Medford, MA, 1979
- Ecole des Hautes Etudes, Paris, France, Spring 1979
- Université de Paris, VII, Paris, France, Spring 1979
- Université Louis Pasteur, Strasbourg, France, Spring 1979
- Université Mohammed V, Rabat, Morocco, Spring 1979
- Institute Pédagogique, Psychobiology of Aging Conference, Walferdange, Luxembourg, May 1979
- Institut Nationale de Santé et Recherche Médicale, Paris, France, May and June 1979
- Université Louis Pasteur, Strasbourg, France, Spring, 1980
- European Brain & Behavior Conference, Rotterdam, The Netherlands, April 1981
- University of Virginia Medical College, Charlottesville, VA, May 1981
- University of Rochester Medical School, Rochester, NY, June 1981
- Massachusetts Psychological Association, Boxborough, MA, November 1981
- Workshop participant: "Nerve growth factor is it present and/or active in the CNS?"
 Winter Conference on Brain Research, Steamboat Springs CO, January 1982.
- Workshop participant: "Brain injury at an early age: What is the potential for recovery?" Winter Conference on Brain Research, Steamboat Springs CO, January 1982.
- Council for Advancement and Support of Education, Washington, DC, February 1982
- 10th Aharon Katzir-Katchalsky Conference, "Aging of the Brain," Mantova, Italy, March 1982
- Hobart and William Smith Colleges, Geneva, NY, May 1982
- Sandoz, Limited, Basel, Switzerland, July 1982
- College of St. Benedict/St. John's University, Collegeville, MN, October 1982
- Society for Neuroscience, National Council, Minneapolis, MN, October 1982
- Panel Participant: 1) "Do rats have hypotheses?" (2) Panel Participant: "Neurotrophic factors and recovery from CNS lesions." (3) Panel participant: "Aging and Brain Damage." Winter Conference on Brain Research, Keystone, CO, January 1983

- (1) The function of the cerebral cortex: Holistic perspective. (2) Environmental experience and brain functions. IBRO/UNESCO/WHO Workshop, Undernutrition and Higher Brain Functions, University of Chile, Santiago, Chile, April 1983.
- John F. Kennedy School of Government, Cambridge, MA, April 1983
- Université Louis Pasteur, Strasbourg, France, June 1983
- Les Laboratoires Dausse, Paris, France, July 1983
- City University of New York, New York, NY, October 1983
- Clark University, Jonas Clark Fellows Dinner, Worcester, MA, October 1983
- McLean Hospital, Harvard Medical School, Cambridge, MA, December 1983
- Veterans Administration Medical Center, Boston, MA, March 1984
- Rutgers Medical School, Piscataway, NJ, March 1984
- University of Massachusetts Medical Center, Worcester, MA, March 1984
- National Coalition for Science and Technology Career Symposium, Center for Talented Youth and the Boston Science Museum, Baltimore, MD, March 1984
- Veterans Administration Hospital, Boston, MA, April 1984
- Rockefeller University, New York, NY, April 1984
- National Education Association, National Coalition for Science and Technology Seminar, Columbus OH, March 1984
- Institute for Child Development, New York, NY, April 1984
- National Coalition for Science and Technology Public Forum, Washington, DC, May 1984
- Environment, brain damage and recovery. Inter-Urban Stroke Academic Association, Ontario, Canada, May 1984
- National Coalition for Science & Technology, Minnesota High Technology Council, Minneapolis MN, May 1984
- Recovery from brain damage: Experimental and theoretical approaches. International Neuropsychology Society Conference, Aachen, West Germany, June 1984
- Fetal brain transplants facilitate behavioral recovery from CNS lesions. Eric K. Fernstrom Symposium, Lund, Sweden, June 1984
- International Neuropsychology Symposium, Beaune, France, June 1984
- St. Elizabeth's Hospital, National Institutes of Health Seminar, Washington, DC, August 1984
- Brain plasticity, learning and memory. European Brain and Behavior Society, Strasbourg, France, September 1984
- Animals in research: A vanishing breed. Society for Research Administrators, San Diego, CA, September 1984
- Neurotrophic substances transplants and functional recovery from brain injury. Academy of Physical Medicine and Rehabilitation, Boston MA, October, 1984
- Fidia Research Laboratory Meeting, Washington, DC, November 1984
- New conceptual approaches to prophylaxis in therapy of organophosphorus poisoning.
 National Academy of Sciences, Defense Department, Palm Beach FL, November 1984
- American Paralysis Association, McLean, VA, January 1985
- Neurotrophic substances and recovery from brain damage. National Institutes of Mental Health, St. Elizabeth's Hospital, Washington, DC, March 1985
- University of Connecticut, Storrs, CT, April 1985
- Clark University Breakfast/Lunch Series, Worcester, MA, April 1985

- Museum of Science, Career Symposium for Academically Talented Youth, Boston, MA, April 1985
- Moss Rehabilitation Hospital, Philadelphia, PA, April 1985
- Cornell University, Ithaca, NY, April 1985
- Eunice Kennedy Shriver Center for Mental Retardation, Waltham, MA, May 1985
- Recovery from brain injury following GM1 ganglioside treatment. International College of Neuropsychopharmacology, Sienna, Italy, May 1985
- Ganglioside enhances behavioral recovery and neuronal repair in brain damaged rats.
 International Society for Neurochemistry, Mantova, Italy, May, 1985
- Developmental plasticity and recovery of function. Pontifical Academy of Sciences Study Group, Vatican City, June 1985
- Review of the environmental determinants of recovery following brain damage. International Neuropsychological Society, Copenhagen, Denmark, June 1985
- Biology of ganglioside and CNS repair. University of Madrid, Madrid, Spain, June 1985
- Du Pont Company, Wilmington, DE, June 1985
- Clark University, Biology Department, Worcester, MA, November 1985
- Johnson Institute, Edison, NJ, December 1985
- Fidia Peer Group Meeting, Washington, DC, January 1986
- University of Vermont, Burlington, VT, March 1986
- Biomeasure Company, Hopkinton, MA, March 1986
- Cell & Tissue Transplantation into the Adult Brain Conference. New York Academy of Sciences, New York, NY, April 1986
- Amherst College, Amherst, MA, May 1986
- International Conference on Neuroplasticity, Madrid, Spain, May 1986
- Rigshospitalet, Copenhagen, Denmark, June 1986
- University of Copenhagen, Copenhagen, Denmark, September 1986
- Wesleyan University, Middletown, CT, October 1986
- Marlboro High School, Central Massachusetts Regional National Honor Society Officers' Convention, October 1986
- Society for Neuroscience Council Meeting, Washington, DC, November 1986
- The University of New Mexico, Albuquerque, NM, November 1986
- Anatomical bases of rehabilitation. Head Trauma Rehabilitation Conference, Elwyn Institutes, Elwyn, PA, November 1986
- National Head Injury Foundation Symposium on "A Vision of the Future," Chicago, IL,
 November 1986
- Monsanto Company, St. Louis, MO, December 1986
- Veterans Administration, Boston, MA, December 1986
- 15th Collegium Internationale Neuro-Psychopharmacologicum, San Juan, Puerto Rico, December 1986
- Workshop participant: "New developments in the functional role of ganglioside." (2) Panel participant: "Sex differences, hormones and fetal brain tissue transplants." Winter Conference on Brain Research, Vail CO, January 1987
- Fetal brain tissue transplants and recovery of cognitive performance in animals with frontal cortex lesions. American Paralysis Association, Project Target Program Review Conference, San Diego CA, January 1987
- American Paralysis Association, McLean, VA, January 1987

- University of Vermont, Burlington, VT, March 1987
- Rutgers The State University of New Jersey, New Brunswick, NJ, April 1987
- 1) Development of plasticity in the CNS: Organismic and environmental influences; 2) Developmental and environmental aspects of brain damage and recovery of function. The Heinz Werner Institute for Developmental Analysis, Heinz Werner Lecture Series in Developmental Psychology and Related Disciplines, Clark University, Worcester MA, April 1987
- Instituto de Biofisica, Rio De Janeiro, Brazil, June 1987
- Experimental approaches to the treatment of brain injuries. Conference on "Rehabilitation of Brain Damaged People," University of Copenhagen, Copenhagen, Denmark, June 1987
- Session Chair: "Functional recovery of damaged nervous system." International Society for Neurochemistry and American Society for Neurochemistry Joint Meeting, Satellite Symposium on "New Trends in Ganglioside Research: Neurochemical and Neuroregenerative Aspects," Puerto La Cruz, Venezuela, June 1987
- Neurotrophic effects of fetal brain tissue transplants on recovery of cognitive performance in animals with frontal cortex lesions. Schmitt Neurological Sciences Symposium on Transplantation into the Mammalian CNS, Rochester, NY, June-July 1987
- Ganglioside and behavioral recovery after brain damage. Participant in workshop on "Ganglioside in CNS Development and Repair." 2d World International Brain Research Organization Congress, Budapest, Hungary, August 1987
- Neurotrophic effects of fetal brain tissue transplants on recovery of cognitive performance in rats with frontal and motor cortex lesions. Satellite Meeting of the 2nd World International Brain Research Organization Congress on "Functional Aspects of Neuronal Grafting in the Mammalian CNS," Pecs, Hungary, August 1987
- Recovery of neuropsychological function. American Psychological Association
 Conference, Invited Master Lecture Series Lecturer, New York, NY, August 1987
- Institute for Brain Injury Research and Training, Camden, NJ, November 1987
- Plenary Session Moderator: "Frontiers of Head Injury." National Head Injury Foundation National Symposium, San Diego CA, December 1987
- Nencki Institute of Experimental Biology, Warsaw, Poland, July 1989
- Cephalon Pharmaceutical Company, Paoli, PA, September 1989
- Institute for Basic Research in Development, Staten Island, NY, September 1989
- Ludwig-Maximilians University, Munich, Germany, October 1989
- Neurotrauma Society, Phoenix, AZ, October 1989
- European Winter Conference on Brain Research, Les Arcs, France, March 1990
- Department of Chemistry, University of Missouri, St Louis, MO, April 1990
- Magee Rehabilitation Hospital, Philadelphia, PA, April 1990
- Louis Pasteur University, Strasbourg, France, April 1990
- European Society for Neurochemistry, Magdeburg, GDR, August 1990
- Scandinavian Aphasia Society, Odense, Denmark, September 1990
- Center for Brain Injury Rehabilitation, Copenhagen, Denmark, September 1990
- European Neuroscience School Faculty lecturer, Praglia, Italy, October 1990
- CNR Research Institute, Indianapolis, IN, October 1990
- Department of Psychology, Davidson College, Davidson, NC, December 1990

- University of Medicine & Dentistry, Newark, NJ, February 1991
- Jewish Community Center, Bayonne, NJ, March 1991
- European Brain and Behavior Society, Goldsmith College, London April 1991
- Department of Biology, New York University, New York, NY, April 1991
- Magee Rehabilitation Hospital, Philadelphia, PA, April 1991
- IPSEN Meeting of Ginkgo and Recovery of Function, Montreux, Switzerland, April 1991
- French Society for Neuroscience, Strasbourg, France, May 1991
- American Psychological Society, Washington, DC, June 1991
- University of Hong Kong, Faculty of Medicine, June 1991
- Department of Psychology, Central Michigan University, Mt. Pleasant, MI, September 1991
- Department of Psychology, University of Sydney, Sydney, Australia, October 1991
- Department of Psychology, University of South Carolina, October 1991
- American Academy of Neurology, Los Angeles, CA, October 1991
- New Jersey Head Injury Association, Edison, NJ, October 1991
- Good Samaritan Hospital, Portland, OR, December 1991
- National Head Injury Foundation, Los Angeles, CA, December 1991
- Case Western Reserve/MetroHealth Medical Center, Cleveland, OH, April 1992
- New Jersey Association for Biomedical Research, Fairleigh Dickinson University, NJ, April 1992
- Institute de Fisiologia Celular, University of Mexico, Mexico City, Mexico, April 1992
- Recovery of function: how much can the injured brain adapt? International Brain Injury Forum, Oxford, England, March 1993
- Brain injury and functional recovery: contextual, environmental and pharmacological factors. New Jersey Head Injury Association's 11th Annual Seminar, Eatontown, NJ, April 1993
- Gender difference in behavioral deficit following entorhinal cortex lesion. 2nd Annual International Behavioral Neuroscience Conference, Clearwater FL, April 1993
- Problems and prospects for research on recovery from traumatic brain injury.
 International Neuropsychology Symposium, Collioure, France, June 1993
- Transplants as therapy for brain dysfunctions: problems, prospects and interesting alternatives. 25th International Congress of Psychology, Brussels, Belgium, July 1992
- Neuroplasticity and its importance for recovery of function. Symposium on Neuropsychological Rehabilitation, CBF-Laboratoriet, Lunds Universitet, Sweden, September 1992
- Pharmacological and anatomical changes underlying recovery from brain injury. 2nd Conference on Progress in Neuropsychological Rehabilitation, Copenhagen, Denmark, September 1992
- Brain damage and recovery: what have we learned since Lashley and what do we still need to know? European Neuroscience Association Satellite Symposium on Stimulation of Brain Repair, Munich, Germany, September 1992
- Alkermes, Inc., Cambridge, MA, May 1993
- University of Rome, Italy, June 1993
- New frontiers in research on recovery from brain damage. Bryn Mawr Rehabilitation Hospital, Malvern, PA, October 1993

- The effect of a free radical scavenger Ginkgo Biloba extract (EGB 761) on the behavioral, histopathological, and biochemical outcomes following bilateral prefrontal cortex contusions in the male rat. Rutgers Neuroscience Symposium, Newark NJ, November 1993
- Bowman Gray School of Medicine, Winston-Salem, NC, March 1994
- Medical School of Magdeburg, Institute of Medical Psychology, Magdeburg, Germany, April 1994
- Emory University School of Medicine, Department of Neurology, Atlanta, GA, April 1994
- Weizmann Institute for Science, Rehovot, Israel, April 1995
- International Brain Injury Association, Copenhagen, Denmark, May 1995
- University of Salamanca (Spain), September 1995
- University of Mexico, Jalapa, Mexico, November 1995
- Emory University, Department of Neurology Grand Rounds, January 1996
- Emory University, Departments of Cell Biology, Neuroscience & Anatomy colloquium, February 1996
- National Public Television, Charlie Rose Show, interviewed February 1996
- Emory University, Department of Psychology, colloquium, March 1996
- Carter Center, Atlanta, GA, Briefing on mental health research of President and Mrs.
 Jimmy Carter, May 1996
- International Neuropsychological Association, Newcastle-upon Tyne, England.
 Workshop on neural plasticity, June 1996
- Society for Neuroscience, Twenty Sixth Annual Meeting, Washington, DC, 1996
- National Academy of Neuropsychology, New Orleans, LA, 1996
- CSAAC, Rockville, MD, 1996
- Kurt Goldstein Institute, Steinach Germany, September 1997
- International Joint Conference on Stroke and Cerebral Circulation, Anaheim CA, 1997.
- New Frontiers in Brain injury research: Sex differences and hormones play a role in recovery. Georgia Brain Injury Assoc, Lake Lanier, GA., January 1998
- Brain Injury Association of Georgia, Pathways to Progress Conference, Atlanta, February 1998
- Käplyä Rehabilitation Center, Helsinki, Finland, March 1998 (2 events)
- Sex Hormones and Recovery from TBI. University of Georgia, Athens, GA, September 1998
- New Directions in the treatment of brain injury. Braintree Hospital, Braintree, MA, November 1998
- Sex, Brain damage and Recovery. Emory Alumni Assoc., Johnson City, TN, November, 1998
- Sex hormones, brain damage and recovery. American Physical Therapy Association retreat on Neuroplasticity, Newport RI, 1998
- Perspectives on Brain Damage and Treatment: Hormones play a critical role. University of Oregon, Eugene, OR, May 1999
- Theories of Recovery, and Hormones, Sex differences and Recovery from Traumatic Brain Injury (2 lectures). Bancroft Rehabilitation Symposium, Philadelphia PA, September 1999

- The use of progesterone and its metabolites in treatment of TBI. Wagner College, Staten Island, NY, February 2000
- Sex hormones and recovery of function after TBI. University of Oklahoma, Oklahoma City, OK, March 2000
- Brain damage and repair: new approaches for a new millennium. Field Neurosciences Institute, Saginaw MI, May 2000
- Hormones and Recovery from Brain Injury. Department of Psychology, University of Lethbridge, Lethbridge, Canada, July 2000
- Theories of Recovery from Brain injury, SARAH Hospital System South American Conference on Neurorehabilitation, Brasilia, Brazil, September 2000
- Sex, brain damage and recovery. Combined Canadian Winter Conference on Brain Research & Stroke Network Meeting, Fernie, Canada, February 2001
- Theories of neural plasticity and recovery of function. International Brain Injury Association, Torino, Italy, May 2001
- Neural stem cell transplants promote behavioral recovery in a mouse model of traumatic brain injury. American Society for Neurotransplantation and Repair, Tampa FL, 2001
- Keynote Speaker, Neurosteroids, Brain damage and repair, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, October 2001
- Progesterone, Brain Damage and Recovery, Frontiers in Neuroscience lecture, Graduate Division of Biological and Biomedical Sciences, Emory University, October 2001
- Progesterone and recovery from brain damage. Laboratory of Neuroendocrinology, Rockefeller University, New York, March 2001
- Hormones, brain damage and recovery. FLENI Hospital, Buenos Aires, Argentina, September 2000
- Sex, brain damage and recovery. Centre for Brain Repair, Cambridge University, Cambridge, England, April 2001
- Hormones, brain damage and recovery. INSERM Unite 488, Kremlin-Bicetre Hospital, Villejuif, France, April 2001
- Neurosteroids, plasticité neuronale et restauration fonctionelle après attaint cérébrale.
 Department of Neuroscience, University of Paris (VII), June 2001
- Workshop on neurosteroids and recovery from traumatic brain damage. Center for Brain Injury Repair, University of Copenhagen, Copenhagen, Denmark, May 2001
- Mechanisms of CNS repair in response to brain injury. Center for Brain Injury and University of Copenhagen, Copenhagen, Denmark, June 2001
- Neurosteroids in brain repair. University of Virginia, Department of Medical Rehabilitation, ERRIS Program, July 2001
- Bridging the gap between basic research and clinical issues in rehabilitation: neurosteroids and recovery of function. First regional ERRIS meeting, University of Virginia Medical Center, Charlottesville, Virginia, July 2001
- Theories of Localization: Historical and contemporary perspectives on a perplexing paradigm. Winter Conference on Brain Research, January 2002
- Current Issues in Localization of function in the Central Nervous System, 34th Winter Conference on Brain Research, Snowmass at Aspen CO, January 2002
- Current concepts in CNS repair after traumatic brain injury. Center for Rehabilitation Medicine, Emory University, February 2002

- Neurosteroids, brain damage and repair. Hormones and Behavior Conference, Breckenridge, CO, March 2002
- Sex, Brain damage and Recovery. University of Kansas Symposium on Stroke and Rehabilitation. Kansas City, KS, April 2002
- Conference Organizer and Speaker: Robert Wood Johnson Foundation/Sam Nunn Policy Forum on "Commercialization of the Academy, Emory University, Atlanta GA, April 2002
- Sex, Brain damage and Recovery: the role of neurosteroids in CNS response to injury.
 Louis Pasteur University, Strasbourg, France, May 2002
- Sex, Brain damage and Recovery: the role of neurosteroids in CNS response to injury.
 University of Magdeburg, Center for Neural Repair, Magdeburg, Germany, June 2002
- Sex Hormones, Brain Damage, and Recovery. Davidson College, Davidson NC, March 2003
- A Brief History of Neuroscience. Furman University, Greenville SC, March 2003
- Traumas crâniens. Gacyclidine, Paris, France, May 2003
- Sex, Brain Damage and Recovery. Consortium for the Assessment of Research on Progestin and Estrogens (CARPE), Ft Worth, TX, August 2003
- The role of progesterone and related neurosteroids in the treatment of traumatic brain injury and stroke. Second International Conference Restauracion Neurologica, Sanra Clara, Cuba, February 2004
- Progesterone's beneficial effects in the damaged central nervous system. ERPM 2004, Stéroïdes sexuels: le point sur l'action des estrogènes et des progestatifs. Montpellier, France, March/April 2004
- Progesterone and Recovery of Function; History of Brain Function. University of St Andrews, St Andrews, Scotland, April 2004
- Spotlight Speaker, Children with Special Needs: Planning a Research Future, Rockville MD, May 2004
- Commercialization of the University: Implications for Research, Teaching and Scholarship. Central Michigan University, Saginaw MI, May 2004
- Brain Repair. Field Neurosciences Institute, Saginaw MI, May 2004
- Sex hormones in the treatment of traumatic brain injury: From basic research to clinical practice. 2nd International Conference on Neuropsychological Rehabilitation after Brain Injury, Vipiteno, Italy, June 2004
- Gender and Neurosteroids in Pathogenesis, Treatment and Recovery after TBI. American Academy of Physical Medicine & Rehabilitation, Phoenix, AZ, October 2004
- The Future of Estrogen and Hormone Therapy in Postmenopausal Women. CARPE (Consortium for the Assessment of Research on Progestins & Estrogens) Conference, Ft. Worth, TX, November 2004
- Promising agents, lessons from trials. National Center for Medical Rehabilitation
 Research: Neuroprotection/Neuroregeneration in TBI. New York City, February 2005
- Emory University, Department of Neurology Grand Rounds, April 2005
- Neurosteroids in traumatic brain injury: Recent developments. Plenary Address, World Congress on Brain Injury, Melbourne, Australia, April 2005
- The pharmacology of CNS repair. Looking Ahead: Innovations in Brain Injury Rehabilitation International Conference, Manchester, Great Britain, September 2005
- International Symposium to Find a "Cure" for Brain Injury. Johnstown, PA, October, 2005

- Progesterone in the treatment of traumatic brain injury: from the laboratory bench to the patient's bedside, 4th World Congress for Neurorehabilitation, Hong Kong, February 2006
- Overview of neuroplasticity and neuroregeneration, Contemporary Forums Brain Injuries Conference, San Antonio March 2006
- Gender and hormonal protective factors, 2nd Federal Traumatic Brain Injury Interagency Conference: Integrating Models of Research and Service Delivery, Bethesda, MD, March 2006
- Keynotes speeches: 1) Historical and conceptual issues in plasticity, repair and functional recovery after brain damage; 2) Neurosteroids in the treatment of traumatic brain injury and stroke: Advances in treatment from the laboratory to the bedside" AMN Congress, Copenhagen, May 2006
- Sex, steroids and environment affect recovery from brain injury, International Behavioral Neuroscience Society Annual Meeting, Whistler, BC, May 2006
- Progesterone in the treatment of TBI: From the laboratory bench to the patient's bedside, Brain Injury Association of Michigan, Lansing, MI, September 2006
- The Role of Progesterone in the Treatment of Traumatic Brain Injury: From the Laboratory Bench to the Bedside. 2d Mediterranean Conference of Neurosciences, Marrakech, Morocco, December 2006
- Some Contemporary Issues in Issues in Neuroethics. Mohammed V University, Rabat, Morocco, December 2006
- Neurosteroids as protective factors. International Neuropsychological Society Annual Meeting, Portland, Oregon, February, 2007
- Neurosteroids as protective factors in TBI: From laboratory bench to the bedside." Steroids and the Nervous System, Torino, Italy, February, 2007
- Neuroprotection and neurorepair: From pharmacology to stem cells, New Jersey Medical School, May, 2007
- Progesterone in the Treatment of Traumatic Brain Injury: Current and Future Prospects.
 University of Otago, Dunedin, New Zealand, April, 2007
- The trials and tribulations of progesterone in the treatment of brain injury: Was the game worth the candle? Wayne-NOXXE Award speech, 4th World Congress for NeuroRehabilitation, Rio de Janeiro, Brazil, June 2007
- Molecular Systems Pharmacology Ethics Program Retreat, Callaway Gardens, GA, October 2007
- Progesterone for Traumatic Brain Injury. American College of Neuropsychopharmacology, Boca Raton, December 2007
- Novel Treatment for TBI. Humana Military Healthcare Services/Texas A&M Health Science Center Invitational Conference on TBI, January 2008
- Neurosteroids in brain repair. University of Virginia, Department of Medical Rehabilitation, ERRIS Program, January 2008
- Panel: Factors affecting impact of early stage brain damage. Winter Conference on Brain Research, January 2008
- Progesterone in Traumatic Brain Injury. Cardiac Fellows Conference, Emory University, January 2008.
- Progesterone in TBI. Carolinas Healthcare System Research Symposium, Charlotte, NC, February 2008

- Grand Rounds, Brain Awareness Week, St Louis University School of Medicine, March 2008
- Progesterone for Traumatic Brain Injury: Experimental Clinical Treatment. Plenary address,
 7th World Congress on Brain Injury, Lisbon, Portugal, April 2008
- Progesterone in the treatment of traumatic brain injury and stroke: the long road from basic research to clinical practice, Mayo Clinic Annual TBI Conference, Rochester MN, June 2008
- Progesterone and its Metabolites in the Treatment of Traumatic Brain Injury, Wyeth
 Therapeutic Options for Menopausal Health Consultant Meeting, Wilmington DE, July 2008
- So what do we know about sex hormones and brain injury? Luncheon speaker, 9th Annual Biomedical Research Symposium, Tuskegee Institute, Tuskegee AL, September 2008
- Progesterone in the Treatment of Brain Injuries: Research from the Laboratory Bench to the Patient's Bedside, Grand Rounds, Rush University Medical Center, Chicago, September 2008
- Swimming Against the Current: Challenges on the Way to Scientific Discovery,
 Distinguished Lecture Series, Singapore Management University, Singapore, October 2008
- Why sex differences in brain injury? Does progesterone have a role? IRME: 8me Congres International, Paris, December 2008
- Progesterone in the Treatment of Ischemic Stroke, The X Factor: Women and Stroke Symposium, Society for Women's Health Research, Washington DC, February 2009
- Keynote speech, Paths to Discovery: Progesterone and its Metabolites in the Treatment of Brain Injury, Brain Injury Association of Iowa, Des Moines, IA, March 2009
- Progesterone in TBI. University of British Columbia, Vancouver BC, March 2009
- Keynote address, Progesterone and the Brain. Brain Injury Association of Minnesota, St Cloud, MN, April 2009
- Are There Sex Differences in Traumatic Brain Injury? Does Progesterone Have a Role? Festschrift for Donald Stein, Association for Psychological Science Annual Meeting, San Francisco, CA, May 2009
- The Progesterone Story, Allen & Company Sun Valley Conference, Sun Valley, ID, July 2009
- Development and screening of water soluble analogues of progesterone: Potential for an innovative, safe and effective innovative approach to acute traumatic brain injury treatment. Iqbal Sayeed, Christopher J. MacNevin, Fahim Atif, Michael G. Nachus, Dennis C. Liotta, Donald G. Stein. Military Health Research Forum, Kansas City, August-September 2009
- The State of the Art: A review of the research in neuroprotection. 1ST International brain injury Conference, Athens, Greece, November 2009
- Repairing damaged brains: progesterone--a safe treatment hidden in plain sight." Van Der Veer Institute for Parkinson's and Brain Research, University of Canterbury, Christchurch, New Zealand, March 2010
- Update on progesterone in the treatment of traumatic brain injury and stroke: from the laboratory Bench to the patient's bedside. Department of Physiology, Otago School of Medical Sciences, University of Otago, Dunedin, New Zealand, March 2010
- Hidden in plain sight: the science, sociology, and politics of progesterone as a treatment for brain injury and stroke. Emory University Life of the Mind Lecture, April 2010
- Drug Therapies: Development, Treatment and Outcomes, Session Chair, Academy for Multidisciplinary Neurotraumatology, Burlington VT, May 2010
- Neurosteroids in the treatment of brain injury. Session chair, International Behavioral Neuroscience Society Annual Meeting, Villasimius, Sardinia, June 2010

- Brain Injury Foundation Webinar: Hidden In Plain Sight: How Progesterone Can Be Considered a Treatment for TBI. July 2010
- Plenary address: Hidden in Plain Sight: The story of progesterone and Brain Injury. Brain Injury Partnerships: NASHIA & NABIS, Minneapolis MN, October 2010
- R&D CoE, Atlanta VA Medical Center Dept of Ophthalmology, Atlanta GA, October 2010
- Hidden in Plain Sight: The story of progesterone in the treatment of brain injury and other CNS disorders. California Brain Injury Association, Napa CA, November 2010
- Repairing Brains: A Scientist's Story. The Howard School, Atlanta GA, November 2010
- Neuroactive Steroids Satellite Symposium, 6th International Steroids and Nervous System, Torino, Italy, February 2011
- TBI Seminar Series, Virginia Commonwealth University, Richmond, Virginia, March 2011
- Emory Congressional Staff Project Medical Education visit, March 24, 2011
- Role of Progesterone & Treatment of Traumatic Brain Injury, USAMRMC Neurotrauma Research Grand Rounds, Ft. Detrick, MD, March 2011
- Emory Board of Trustees Spring Retreat, June 2011
- International Behavioral Neuroscience Society, Steamboat, CO, June 2011
- Interagency Traumatic Brain Injury Conference, Washington, DC, June 2011
- Society for Women's Health Research (SWHR), Washington, DC, July 2011
- Medical University of South Carolina Seaside Planning Committee, Charleston, SC, September 2011
- Medical University of South Carolina, Psychiatry Department, September 2011
- Psychology Forum, St. Andrews University, Scotland, UK, March 2012
- American Society of Health Care Journalists, Atlanta, Georgia, April 2012
- Institut Fédératif de Recherche, Paris, France, April 2012
- Shock and Trauma Society, Miami Beach, Florida, June 2012
- Behavioral Endocrinology Society, Madison, Wisconsin, June 2012
- Session Chair, Clinical Data Collection and Clinical Trials, 30th Annual National Neurotrauma Symposium, Phoenix, Arizona, July 2012
- American Speech-Language-Hearing Association, Atlanta, GA, Nov 2012
- BHR Pharma SyNAPSe® Find Five Summit, Coral Gables, Florida, January 10 11, 2013
- BHR Pharma SyNAPSe® Find Five Summit Scottsdale, Arizona, January 24 25, 2013
- Neurology Grand Rounds, University of Maryland, Baltimore, Maryland, May 2013
- Neal Miller Invited Lecture, American Psychological Association, Honolulu, Hawaii, August 2013
- TBI Symposium, Neuroscience Center of Excellence, Indianapolis Indiana, September 2013
- Plenary Address, International Brain Injury Association, San Francisco, CA, March 2014
- International Scientists Lecture Series, Graduate School, Beijing University of Chinese Medicine, March 2014 (Graduate Education in the United States; Clinical Use of Progesterone in the United States)
- Neurology Hospital, Department of Neurology, Xuzhou Medical College, Xuzhou, China, March 2014
- Keynote address, Center for Health and Healing, Oregon Health Sciences University, Portland, OR, May 2014
- Neurocritical Care Society, Dallas, TX, September 11-14, 2014
- Neuroscience Seminar Series, Uniformed Services University, October 2014
- Keynote speaker, Michigan Society for Neuroscience and Central Michigan University, May 11, 2015

- Special Grand Rounds, St Mary's Hospital/Saginaw Valley State University, Saginaw, MI, May 11, 2015
- Duke University Symposium on Neurosteroids and CNS Disorders, Durham, NC, April 2016
- Is There a Future for the Treatment of Nervous System Injuries? State-of-the-Art Conference on TBI, Veterans Administration Office of Research and Development, Washington DC, August 24, 2015
- Preclinical modeling of militarily relevant traumatic brain injuries: VA/NIH Forum on Traumatic Brain Injury, June 2016.

PUBLISHED BOOKS AND MONOGRAPHS

Stein, D.G. and Rosen, J.J., Basic *Structure and Function in the Central Nervous System*. (Vol. 1 of a 3-volume textbook for undergraduate physiological psychology) New York: Macmillan, 1974.

Stein, D.G. and Rosen, J.J., *Motivation and Emotion*. (Vol. 2 of a 3-volume textbook for undergraduate physiological psychology) New York: Macmillan, 1974.

Stein, D.G. and Rosen, J.J., *Learning and Memory*. (Vol.3 of a 3-volume textbook for undergraduate physiological psychology) New York: Macmillan, 1974.

Stein, D.G., Rosen, J.J., and Butters, N. (eds). *Plasticity and Recovery of Function in the Central Nervous System*. New York: Academic Press, 1974.

Stein, DG, ed. (1980) The Psychobiology of Aging: Problems and Perspectives. New York: Elsevier.

Finger, S. and Stein, D.G., *Brain Damage and Recovery: Research and Clinical Perspectives*. New York: Academic Press, 1982.

Stein, D.G., Plasticité Neuronale, Vieillissement et Récuperation à la suite de Lésions Cérébrales. Paris: Les Laboratoires Dausse, 1983.

Stein, D.G. and Sabel, B.A., eds., *Pharmacological Approaches to the Treatment of Brain and Spinal Cord Injuries*. New York: Plenum Publishing, 1988.

Finger, S., LeVere, T., Almli, R. and Stein, D.G., eds., *Theoretical and Controversial Issues in Recovery from Brain Damage*. New York: Plenum Publishing, 1988.

Stein, D.G., Development of Plasticity in the Central Nervous System: Organismic and Environmental Influences. Heinz Werner Lecture Series, Worcester, Massachusetts: Clark University Press, 1988.

Stein, D.G. (1998). *Current Concepts in Recovery from Brain Damage*. American Psychological Association Master Lecture Series, Fall, 1987. Washington D.C.: American Psychological Association Publication, 1988.

Brailowsky, S., Stein, D.G., and Will, B., Les Dépannages du Cerveau. Paris: Editions Berlin, 1991.

Brailowsky, S., Stein, D.G., and Will, B., *El Cerebro Averiado*. Fondo de Cultura Economica, S.A., Mexico DF, 1992.

Stein, D.G., Brailowsky, S., and Will, B., Brain Repair. New York: Oxford University Press, 1995.

Brailowsky, S., Stein, D.G., and Will, B., *Lesioni Cerebrali: Le Nuove Risorse della Medicina*, Phoenix, Roma: 2000.

Stein, D.G., Brailowsky, S. and Will, B. *Brain Repair Das Selbstheilungspotential des Gehirns:* oder wie das Gehirn sich selbst hilf. Stuttgart: Thieme Verlag, 2000.

Stein, D.G., ed. *Buying in or Selling Out: The Commercialization of the American Research University*. New Brunswick, NJ: Rutgers University Press, 2004.

PUBLISHED PAPERS, ARTICLES AND REPORTS

Ratner, Stanley C., Stein, D.G. (1965) Responses of worms to light as a function of interatrial interval and ganglion removal. *J Comp Physiol Psych* 59: 301-305.

Kimble D.P., Kirkby R.J., Stein D.G. (1966) A response perseveration interpretation of passive avoidance deficits in hippocampectomized rats. *J Comp Physio Psych* 61:141-143.

Stein, D.G., Kimble, D.P. (1966) Effects of hippocampal lesions and post-trial strychnine administration on maze behavior in the rat. *J Comp Physio Psych* 62:243-249.

Brink, J.J., Stein, D.G. (1967) Pemoline levels in brain: Enhancement by dimethyl sulfoxide. *Science* 158:1479-1480.

Kirkby R.J., Stein D.G., Kimble R.J., Kimble D.P. (1967) Effects of hippocampal lesions and duration of sensory input on spontaneous alternation. *J Comp Physiol Psych* 64:342-345.

Stein, D.G., Kirkby, R.J. (1967) The effects of training on passive avoidance deficits in rats with hippocampal lesions: a reply to Isaacson, Olton, Bauer, and Swart. *Psychonomic Sci* 7: 7-8.

Brink, J.J., Stein, D.G. (1968) Facilitation of learning in rats by pemoline dissolved in 100% dimethyl sulfoxide (DMSO). *Fed Proc* 27:437.

Brink, J.J., Stein, D.G. (1968) The metabolism and distribution of pemoline in rat brain. *Biochem Pharmacol* 17: 2365.

Stein DG, Brink JJ (1968) Memory drugs probe the chemistry of learning. Sci Res 3:45-59.

Stein, D.G., Brink, J.J., Patterson, A.H. (1968) Magnesium pemoline: Facilitation of maze learning when administered in pure dimethyl sulfoxide. *Life Sci* 7: 147-153.

Stein, D.G., Chorover, S.L. (1968) Effects of post-trial electrical stimulation of hippocampus and caudate nucleus on maze learning in the rat. *Physiol Behav* 3(5): 787-791.

Kocsis, J.J., Harkaway, S., Vogel, W.H., Brink, J.J., Stein, D.G. (1969) Dimethyl sulfoxide: Breakdown of blood-brain barrier? *Science* 160: 1472-1473.

Rosen, J.J., Stein, D.G. (1969) Spontaneous alteration behavior in the rat. *J Comp Physio Psych* 420:6.

Stein, D.G., Brink, J.J. (1969) Prevention of retrograde amnesia by injection of magnesium pemoline in dimethyl sulfoxide. *Psychopharmacologia* 14:240-247.

Stein, D.G., Rosen, J.J., Graziadei, J., Mishkin, D., Brink, J. (1969) Central nervous system: recovery of function. *Science* 166:528-530.

Frank, B., Stein, D.G., Rosen, J.J. (1970). Interanimal "memory" transfer: Results from brain and liver homogenates. *Science* 169:399-402.

Rosen, J.J., Stein, D.G., Butters, N. (1971) Recovery of function after serial ablation of prefrontal cortex in the rhesus monkey. *Science* 173: 353-355.

Stein, D.G. (1971) Effects of strychnine during different periods of development on maze learning in adult rats. *Comm Behav Biol* 6: 335-340.

Butters, N., Pandya, D., Stein, D.G., Rosen, J.J. (1972) A search for the spatial engram within the frontal lobes of monkeys. In J. Konorski and H.L. Teuber, eds. *The Frontal Granular Cortex and Behavior* (1971 revision), *Neurobiol Exper* 32: 1972.

Stein, D.G. (1972) The effects of saline or blank injections during development on maze learning at maturity. *Devel Psychobiol* 5: 319-322.

Stein, D.G., Rosen, J.J. (1972) Nonspecific behavioral effects of substances from mammalian brain. *Science* 178: 521-523.

Butters, N., Butter, C., Rosen, J.J., and Stein, D.G. (1973) Behavioral effects of sequential and one-stage ablations of orbital prefrontal cortex in the monkey. *Exp Neurol* 39: 204-215.

Finger, S., Walbran, B., Stein, D.G. (1973) Brain damage and recovery: Serial lesion phenomena. *Brain Res* 63: 1-18.

McIntyre, M., Stein, D.G. (1973) Differential effects of one- vs two-stage amygdaloid lesions on activity, exploratory, and avoidance behavior in the albino rat. *Behav Biol* 9:451-465.

Pujol, J.F., Stein, D.G., Blondaux, C., Petitjean, F., Froment, J.L., Jouvet, M. (1973) Biochemical evidences for interaction phenomena between noradrenergic and serotoninergic systems in the cat brain. *Front Catechol Res*: 771-772.

Butters, N., Rosen, J.J., Stein, D.G. (1974) Recovery of behavioral functions after sequential ablation of the frontal lobes of monkeys. In D.G. Stein, J.J. Rosen and N. Butters, eds., *Plasticity and Recovery of Function in the Central Nervous System*. New York: Academic Press, 429-466.

Stein, D.G. (1974) Sequential versus single lesions and some other variables contributing to recovery of function in the rat. *Neurosci Res Program Bull* 12: 260-268.

Eidelberg, E., Stein, D.G. (1974) Possible mechanisms of functional recovery. *Neurosci Res Program Bull* 12: 275-279.

Stein, D.G. (1974) The effects of early saline injections and pentylenetetrazol on Hebb-Williams maze performance in the adult rat. *Behav Biol* 11: 415-422.

Stein, D.G. (1974) Some variables influencing recovery of function after central nervous system lesions in the rat. In D.G. Stein, J.J. Rosen and N. Butters, eds., *Plasticity and Recovery of Function in the Central Nervous System*. New York: Academic Press, 373-427.

Stein, D.G., Jouvet, M., Pujol, J.F. (1974) Effects of -methyl-P-tyrosine (AMPT) upon cerebral amine metabolism and sleep states in the cat. *Brain Res* 72: 360-365.

Fass, B., Jordan, H., Rubman, A., Seibel, S., Stein, D.G. (1975) Recovery of function after serial or one-stage lesions of the lateral hypothalamic area in rats. *Behav Biol* 14: 283-294.

Schultze, M.J., Stein, D.G. (1975) Recovery of function in the albino rat following either simultaneous or seriatim lesions of the caudate nucleus. *Exp Neurol* 46: 291-301.

Patrissi, G.A., Stein, D.G. (1975) Temporal factors in recovery of function after brain damage. *Exp Neurol* 47: 470-480.

Rosen, J.J., Butters, N., Soeldner, C., Stein, D.G. (1975) Effects of one-stage and serial ablations of the middle third of sulcus principalis on delayed alternation performance in monkeys. *J Comp Physiol Psych* 89: 1077-1082.

Stein, D.G. and Lewis, M.E. (1975) Functional recovery after brain damage in adult organisms. In F. Vital-Durand and M. Jeannerod, eds. *Aspects of Neuroplasticity*. Lyon-Perouges, France: INSERM: 203-228.

Isseroff, A., Leveton, L., Freeman, G., Lewis, M., Stein, D.G. (1976) Differences in the behavioral effects of single-stage and serial lesions of the hippocampus. *Exp Neurol* 53: 339-354.

Macrides, F., Firl, A., Schneider, S., Bartke, A., and Stein, D.G. (1976) Effects of one-stage or serial transections of the lateral olfactory tracts on behavior and plasma testosterone levels in male hamsters. *Brain Res*: 97-109.

Stein, D.G. (1976) La dynamique de la plasticité fonctionnelle et morphologique du système nerveux central. *Lyon Medical* 236:735-752.

Stein, D.G. and Firl, A. (1976) Brain damage and reorganization of function in old age. *Exp Neurol*:157-167.

Faugier-Grimaud, S., Stein, D.G., Frenois, C. (1977) Effets de lesions du cortex pariétal postérieur (aire 7) sur le geste guidé visuellement chez le singe. (Abstract) *J Physiol:* 72A-73A.

Stein, D.G. (1977). (1) Central motive state, Vol. 3:34-35; (2) Critical period, Vol. 3:455-456; (3) Intracranial stimulation, Vol. 6:183-184; (4) Pleasure center, Vol. 8:418-419. In B. Wolman, ed., *International Encyclopedia of Psychiatry, Psychology, Psychoanalysis and Neurology*. New York: Aesculapius Publishers.

Stein, D.G., Butters, N., Rosen, J.J. (1977) A comparison of two- and four-stage ablations of sulcus principalis on recovery of spatial performance in the rhesus monkey. *Neuropsychologia* 15: 179-182.

Faugier-Grimaud, S., Frenois, C., Stein, D.G. (1978) Effects of posterior parietal lesions on visually guided behavior in monkeys. *Neuropsychologia* 16: 151-168.

Gentile, A.M., Green, S., Nieburgs, A., Schmelzer, W., Stein, D.G. (1978) Disruption and recovery of locomotor and manipulatory behavior following cortical lesions in rats. *Behav Biol* 22:417-455.

Hart, T., Chaimas, N., Moore, R.Y., Stein, D.G. (1978) Effects of nerve growth factor on behavioral recovery following caudate nucleus lesions in rats. *Brain Res Bull* 3: 245-250.

Laurence, S., Stein, D.G. (1978) Recovery after brain damage and the concept of recovery. In S. Finger, ed., *Brain Damage and the Concept of Recovery*. New York: Plenum Press, 369-407.

Stein, D.G. (1978) Perception as response: A commentary on Bindra's: "How adaptive behavior is produced: A perceptual-motivational alternative to response reinforcement." *Behav Brain Sci:* 77-79.

Stein, D.G. (1978) Slide tape program: *Recovery of function after brain damage*. Verne Cox, ed. Bayport, New York: Life Science Associates.

Weinberg, D., Stein, D.G. (1978) Impairment and recovery of visual functions after bilateral lesions of superior colliculus. *Physiol Behav*: 323-329.

Lewis, M.E., Brown, R.M., Brownstein, J.J., Hart, T., Stein, D.G. (1979) Nerve growth factor: Effects of d-amphetamine-induced activity and brain monoamines. *Brain Res*: 297-310.

- Stein, D.G. (1979) The ghost in the machine is still there. A commentary on Olton et al.: "Hippocampus, space, and memory." *Behav Brain Sci*: 346-348.
- Stein, D.G., and Mufson, E.J. (1979) Tumor induced brain damage in rats: Implications for behavioral and anatomical studies with aging animals. *Exp Aging Res*: 537-547.
- Mufson, E.J. Stein, D.G. (1980) Behavioral and morphological aspects of aging: An analysis of rat frontal cortex. In D.G. Stein, ed., The *Psychobiology of Aging: Problems and Perspectives*. New York: Elsevier, 99-125.
- Mufson, E.J., Stein, D.G. (1980) Degeneration in the spinal cord of old rats. *Exp Neurol* 70:179-186.
- Stein, D.G. (1980). Brain function: Comparative analysis of problems in physiological psychology. In M.R. Denny, ed., *Comparative Psychology: An Evolutionary Analysis of Animal Behavior*. New York: John Wiley and Sons, 191-207.
- Stein, D.G., Blake, C.A., Weiner, H.W. (1980) Nerve growth factor disrupts metabolism and behavioral performance of intact rats but does not affect recovery from hypothalamic lesions. *Brain Res* 190:278-284.
- Stein, D.G., Dawson, G.R. (1980) The dynamics of growth, organization and adaptability in the central nervous system. In O.G. Brim, Jr. and J. Kagan, eds., *Constancy and Change in Human Development*. Cambridge, Massachusetts: Harvard University Press, 163-228.
- Fass, B., Strub, H., Greenspon, J.M., Stevens, D.A., Stein, D.G. (1981) A descriptive analysis of tail-pinch elicited eating-behavior of rats. *Physiol Behav* 26: 355-359.
- Sabel, B.A., Stein, D.G. (1981) Extensive loss of subcortical neurons in the aging rat brain. *Exp Neurol* 73: 507-516.
- Stein, D.G. (1981) Functional recovery from brain damage following treatment with nerve growth factor. In M.W. van Hof and G. Mohn, eds., *Functional Recovery from Brain Damage*. Amsterdam: Elsevier/ North Holland Biomedical Press, 423-443.
- Will, B., Stein, D.G. (1981) La récuperation après lésions cérébrales. *Pour la Science* (French edition of Scientific American) 43: 66-77.
- Sabel, B.A. Stein, D.G. (1982) Intracerebral injections of isotonic saline prevent behavioral deficits from brain damage. *Physiol Behav* 28: 1017-1023.
- Greenspon, J.M., Stein, D.G. (1983) Functional asymmetry of the songbird brain: Effects of testosterone on song control in adult female canaries (Serinus canarius). *Neurosci Lett* 41: 125-131.
- Labbe, R., Firl, A., Mufson, E.J., Stein, D.G. (1983) Fetal brain transplants: Reduction of cognitive deficits in rats with frontal cortex lesions. *Science* 221: 470-472.
- Sabel, B.A., Kardon, G.B., Stein, D.G. (1983) Behavioral effects of intracerebral injections of renin and captopril in intact and brain-damaged rats. *Brain Res Bull* 11: 637-642.
- Stein, D.G. (1983). 1) Intracranial stimulation, pp. 183-184, Vol. 6; 2) Recovery from brain injury, pp. 389-392, Vol. 1; 3) Critical period, pp.455-456, Vol. 3; 4) Central motive state (CMS), pp.34-35, Vol. 3; 5) Pleasure center, pp.418-419, Vol. 8. In B. Wolman, ed., *International Encyclopedia of Psychiatry, Psychology, Psychoanalysis and Neurology*. New York: Aesculapius Publishers.
- Stein, D.G. (1983) Neurobehavioral plasticity in the aging brain. In D. Samuel et al., eds., *Aging of the Brain*. New York: Raven Press, 155-163.

- Stein, D.G., Finger, S., Hart, T. (1983) Brain damage and recovery: Problems and perspectives. *Behav Neural Biol* 37: 185-222.
- Stein, D.G., Will, B.E. (1983) Nerve growth factor produces a temporary facilitation of recovery from entorhinal cortex lesions. *Brain Res* 261: 127-131.
- Valentino, M.L., Stein, D.G. (1983) Do rats have hypotheses? A developmental and means-ends analyses approach to brain damage, recovery of function, and aging. In S. Scheff, ed., *Aging and Recovery of Function*. New York: Plenum Press, 129-152.
- Ramirez, J., Stein, D.G. (1984) Sparing and recovery of spatial alternation performance after entorhinal cortex lesions in rats. *Behav Brain Res* 13: 53-61.
- Sabel, B.A., Dunbar, G.L., Stein, D.G. (1984) Ganglioside minimize behavioral deficits and enhance structural repair after brain injury. *J Neurosci Res* 12: 429-443.
- Sabel, B.A., Slavin, M.D., Stein, D.G. (1984) GM1 ganglioside treatment facilitates behavioral recovery from bilateral brain damage. *Science* 225: 340-342.
- Eclancher F., Ramirez J., Stein D.G. (1985) Neonatal brain damage and recovery: Intraventricular injection of NFG at time of injury alters performance of active avoidance. *Devel Brain Res* 19: 227-235.
- Sabel, B.A., Dunbar, G.L., Butler, W.M., Stein, D.G. (1985) GM1 ganglioside stimulate neuronal reorganization and reduce rotational asymmetry after hemitransections of the nigro-striatal pathway. *Exp Brain Res* 60:27-37.
- Sabel, B., Dunbar, G., Fass, B., Stein, D.G. (1985) Ganglioside, neuroplasticity and behavioral recovery after brain damage. In B.E. Will, P. Schmitt and J.C. Dalrymple-Alford, eds., *Brain Plasticity, Learning, and Memory*. New York: Plenum Publishing, 481-493.
- Sabel, B., Labbe, R., Stein, D.G. (1985) The saline effect: Minimizing the severity of brain damage by reduction of secondary degeneration. *Exp Neurol* 88: 95-107.
- Stein, D.G. (1985) Organismic and pharmacological factors influencing recovery from brain injury. In C. Chagas, R. Linden and R. Lent, eds., *Developmental Neurobiology of Mammals*. Rome: Vatican Press, 381-448.
- Stein, D.G. (1985) Fetal brain tissue transplant techniques: A cautionary note. *Neurobiol Aging* 6:157-160.
- Stein, D.G., Labbe, R., Attella, M.J., Rakowsky, H.A. (1985) Fetal brain tissue transplants reduce visual deficits in adult rats with bilateral lesions of the occipital cortex. *Behav Neural Biol* 44:266-277.
- Stein, D.G., Labbe, R., Firl, A., Mufson, E.J. (1985) Behavioral recovery following implantation of fetal brain tissue into mature rats with bilateral, cortical lesions. In A. Bjorklund and V. Stenevi, eds., *Neural Grafting in the Mammalian CNS*. Amsterdam: Elsevier, 605-614.
- Sabel, B.A., Stein, D.G. (1986) Pharmacological treatment of central nervous system injury. *Nature* 323:493.
- Dunbar, G.L., Butler, W., Fass, B., Stein, D.G (1986) Behavioral and neurochemical alterations induced by exogenous ganglioside in brain damaged animals: Problems and perspectives. In G. Tettamanti, R. Ledeen, K. Sandhoff, Y. Nagai and G. Toffano, eds., *Fidia Research Series: Ganglioside and Neuronal Plasticity*. Padova, Italy: Liviana Press, 365-380.

- Butler, W.M., Griesbach, E., Labbe, R., Stein, D.G. (1987) Ganglioside fails to enhance behavioral recovery after bilateral ablation of the visual cortex. *J Neurosci Res* 17: 404-409.
- Fass, B., Ramirez, J.J., Stein, D.G., Mahadik, S.P., Karpiak, S.E. (1987) Ganglioside-induced alterations in hippocampal cholinergic enzymes and Na,K-ATPase after fimbria-fornix transection. *J Neurosci Res* 17:45-50.
- Fass, B., Stein, D.G. (1987) Effects of fimbria-fornix transection and ganglioside treatments on histochemical staining for glucose-6-phosphate dehydrogenase in the lateral septum. *Synapse* 1:70-81.
- Mufson, E.J., Labbe, R., Stein, D.G. (1987) Morphologic features of embryonic neocortex grafts in adult rats following frontal cortical ablation. *Brain Res* 401:162-167.
- Sabel, B.A., DelMastro, R., Dunbar, G.L., Stein, D.G. (1987) Reduction of anterograde degeneration in brain damaged rats by GM1 ganglioside. *Neurosci Lett* 77:360-366.
- Dunbar, G.L., Hecht, S.A., Merbaum, S.L., DeAngelis, M.M., Stein, D.G. (1987) Use of ganglioside and amphetamines to promote behavioral recovery following bilateral caudate nucleus lesions. In R.L. Masland, A. Portera-Sanchez and G. Toffano, eds., *A New Therapeutical Tool in the CNS Pathology*. Vol 12. Padova, Italy: Lavinia Press, 117-124.
- Stein, D.G. (1987) In pursuit of new strategies for understanding recovery from brain damage: Problems and perspectives. In Boll, T. and Bryant, B.K., eds., *Clinical Neuropsychology and Brain Function*. Master Lecture APA, Washington, DC, 9-56.
- Stein, D.G., Mufson, E.J. (1987) Morphological and behavioral characteristics of embryonic brain tissue transplants in adult, brain-damaged subjects. *Ann NY Acad Sci* 495:444-464
- Dunbar, G.L., Stein, D.G. (1988) Ganglioside and functional recovery from brain damage. In B.A. Sabel and D.G. Stein, eds., *Pharmacological Approaches to Treatment of Brain and Spinal Cord Injury*. New York: Plenum Publishing, 195-218.
- Finger, S., LeVere, T.E., Almli, C.R., Stein, D.G. (1988) Recovery of function: Sources of controversy. In S. Finger, T.E. LeVere, C.R. Almli and D.G. Stein, eds., *Brain Injury and Recovery: Theoretical and Controversial Issues*. New York: Plenum Publishing, 351-362.
- Slavin, M.D., Laurence, S., Stein, D.G. (1988) Another look at vicariation. In S. Finger, T.E. LeVere, C.R. Almli and D.G. Stein, eds., *Brain Injury and Recovery: Theoretical and Controversial Issues*. New York: Plenum Publishing, 165-180.
- Stein, D.G. (1988) Practical and theoretical issues in the use of fetal brain tissue transplantation to promote recovery from brain damage injury. In S. Finger, T.E. LeVere, C.R. Almli and D.G. Stein, eds., *Theoretical and Controversial Issues*. New York: Plenum Publishing, 249-272.
- Ramirez, J.J., Labbe, R., Stein, D.G. (1988) Recovery from perseverative behavior after entorhinal cortex lesions in rats. *Brain Res* 459: 153-156.
- Stein, D.G., Palatucci, C., Kahn, D., Labbe, R. (1988) Temporal factors influence recovery of function after embryonic brain tissue transplants in adult rats with frontal cortex lesions. *Behav Neurosci* 102: 260-7, 325-6.
- Slavin, M., Held, J.M., Basso, M., Lesensky, S., Curran, E., Stein, D.G. (1988) Fetal brain tissue transplants and recovery of locomotion following damage to sensorimotor cortex in rats. In D. Gash & J. Sladek, eds., *Transplantation into the Mammalian CNS*. Progress in Brain Research, Amsterdam: Elsevier, 78, 33-38.

- Attella, M., Hoffman, S.W., Stasio, M.J., Stein, D.G. (1989) Ginkgo biloba extract facilitates recovery from penetrating brain injury in adult male rats. *Exp Neurol* 105: 62-71.
- Stein, D.G. (1989) Development and plasticity in the CNS: Organismic and Environmental Influences. In A. Ardila and F. Ostrosky-Solis, eds. *Brain Organization of Language and Cognitive Processes*, New York: Plenum Press, 229-52.

Lescaudron, L.L., Stein, D.G. (1990) Functional recovery following transplants of embryonic brain tissue in rats with lesions of visual, frontal and motor cortex: Problems and prospects for future research. Neuropsychologia 28:585-599.

Stein, D.G. (1990) Some functional consequences of chronic GM1 ganglioside administration in brain damaged rats. *Acta Biol Exper* 50:405-413.

Garin, D., Stein, D.G. (1990) Scientists as Lobbyists: Déja Vu. J NIH Res.

Stein, D.G. (1991) Fetal brain tissue grafting as therapy for brain dysfunctions: unanswered questions, unknown factors and practical concerns. *J Neurosurg Anesthesiol* 3:170-189.

Stein, D.G., Halks-Miller, M., Hoffman, S.W. (1991) Intracerebral administration of alpha tocopherol-containing liposomes facilitates behavioral recovery in rats with bilateral lesions of the frontal cortex. *J Neurotrauma* 8: 281-292.

Brailowsky, S., Stein, D.G., Will, B. (1991) Funciones y plasticidad del cerebro. *Semanal* 114: 23-30.

Jorgensen, O.S., Stein, D.G. (1992) Transplant and ganglioside GM1 mediated neuronal recovery in rats with brain lesions. *Rest Neurol Neurosci* 3:311-320.

Attella, M.J., Hoffman, S.W., Pilotte, M.P., Stein, D.G. (1992) Effects of BIM-22015, an analog of ACTH₄₋₁₀, on functional recovery after frontal cortex injury. *Behav Neural Biol* 57:157-166.

Lescaudron, L.L., Bitran, B.S., Stein, D.G. (1992) GM1 ganglioside effects on astroglial response in the rat nucleus basalis magnocellularis and its cortical projection areas after electrolytic or ibotenic lesions. *Exp Neurol* 116:85-95.

- Roof, R.L., Duvdevani, R., Stein, D.G. (1992) Progesterone treatment attenuates brain edema following contusion injury in male and female rats. *Rest Neurol Neurosci* 6:425-428.
- Stein, D.G., Glasier, M.M. (1992) An overview of developments in research on recovery from brain injury. In F.D. Rose and D.A. Johnson, eds., *Recovery of Function Following Brain Damage.*, *Adv. Exp. Med. Biol.* 325:1-24.
- Stein, D.G., Hoffman, S.W., Attella, M.J. (1992) ACTH₍₄₋₁₀₎ analog potentiates cognitive and morphological recovery after frontal cortex lesions in adult rats. In F. Hefti, P. Brachet, B. Will and Y. Christen, eds., *Growth Factors and Alzheimer's Disease. Research and Perspectives in Alzheimer's Disease*. Berlin: Springer-Verlag.
- Stein, D.G. (1992) Environmental and experiential factors play a key role in determining the outcome of injury to the Central Nervous System. In: N. von Steinbuechel et al., eds., *Neuropsychological Rehabilitation*. Springer-Verlag, Berlin, 41-50.
- Roof, R.L., Duvdevani, R., Stein, D.G. (1993) Gender influences outcome of brain injury: progesterone plays a protective role. *Brain Res* 607:333-336.

- Dunbar, G.L., Lescaudron, L.L., Stein, D.G. (1993) Comparison of GM1 ganglioside, AGF2, and damphetamine as treatments for spatial reversal and place learning deficits following lesions of the neostriatum. *Behav Brain Res* 54:67-79.
- Hoffman, S.W., Sutton, R.L., Stein, D.G. (1993). Treatment with ACTH₄₋₁₀ analog (BIM-22015) reduces functional and anatomical impairments following medial frontal cortex ablation in rat. *J Neurosci Res Comm* 13:63-72.
- Sutton, R., Lescaudron, L.L., Stein, D.G. (1993) Unilateral cortical contusion in the rat: Vascular disruption and temporal development of cortical necrosis. *J Neurotrauma* 10:135-149.
- Lescaudron, L.L., Sutton, R.L., Stein, D.G. (1993) Effects of fetal forebrain transplants in ibotenic-injured nucleus basalis: an anatomical investigation. *Intl J Neurosci* 69:97-104.
- Stein, D.G. (1993) New Thinking About Brain Damage, Recovery and Rehabilitation. In G. Fisher and G.E. Hansen, eds., *Second Nordiske Kongres on Afasi*. Alborg, Denmark: Phoenix Tryk,
- Roof, R.L., Zhang, X., Glasier, M.M., Stein, D.G. (1993) Gender-specific impairment on Morris water maze task following entorhinal cortex lesions. *Behav Brain Res* 57:47-51.
- Roof, R.L., Duvdevani, R., Stein, D.G. (1993) Role of gender and progesterone treatment in time course of edema formation following traumatic brain injury. *Brain Res* 607:333-336.
- Stein, D.G. (1993) Contextual factors in recovery from brain damage. In A. Christensen & B. Uzzell, eds., Neuropsychological Rehabilitation. Englewood, NJ: L. Erlbaum.
- Hoffman, S.W., Fulop, Z., Stein, D.G. (1994) Bilateral frontal cortical contusion in rats: Behavioral and anatomical consequences. *J Neurotrauma* 111:417-431.
- Roof, R.L. Duvedani, R., Braswell, L., Stein, D.G. (1994) Progesterone facilitates cognitive recovery and reduces secondary neuronal loss following cortical contusion injury in male rats. *Exp Neurol* 129:64-69.
- Stein, D.G., Recovery of function after serial lesions of prefrontal cortex in the Rhesus monkey: A retrospective (1994). In *Neurophysiological Explorations of Memory and Cognition: Essays in Honor of Nelson Butters*, ed. L.S. Cermak, New York, Plenum Press, 1-8.
- Stein, D.G., Brain damage and recovery (1994) *Progress in Brain Research*. F. Bloom, Amsterdam, London, New York, Tokyo, Elsevier Science Publishers, 100: 203-211.
- Stein, D.G., Glasier, M.M. (1994) Pharmacological treatments for brain injury repair: Progress and prognosis. *Neuropsychol Rehab* 4: 337-357.
- Duvdevani, R., Roof, R.L., Fulop, Z., Hoffman, S.W., Stein, D.G. (1995) Blood-brain barrier breakdown and edema formation following frontal cortical contusion: does hormonal status play a role? *J Neurotrauma* 12: 65-75.
- Glasier, M.M., Chen, X., Sutton, R.L., Stein, D.G. (1995) Effects of unilateral entorhinal cortex lesion and GM1 ganglioside treatment on water maze performance. *Neurobiol Learn Mem* 64: 203-214.
- Janis, S.L., Glasier, M.M., Martin, G., Stackman, R.W., Walsh, T.J., Stein, D.G. (1995) A single intraseptal injection of nerve growth factor facilitates radial maze performance following damage to the medial septum in rats. *Brain Res* 679: 99-109.
- Shifman, M.I., Stein, D.G. (1995) A reliable and sensitive method for non-radioactive Northern-blot analysis of nerve growth factor mRNA from brain tissues. *J Neurosc Methods* 59: 205-208.

- Stein, D.G. (1995) Gender, progesterone and the early stages of brain injury. *Restor Neurol Neurosci* 8:105.
- Stein, D.G., Glasier, M.M. (1995) Some practical and theoretical issues concerning fetal brain tissue grafts as therapy for brain dysfunctions. *Brain Behav Sci* 18:36-45.
- Palatucci, C.M., Fulop, Z., Charbonnier, D., Lim, R., Stein, D.G. (1996) Infusion of glial maturation factor-B reduces behavioral deficits after caudate nucleus injury in rats. *Intl J Neurosc* 84:135-147.
- Shifman, M.I., Fulop, Z.L., Hashemzadeh-Gargari, H., Stein, D. G. (1996) Effects of ginkgo biloba extract (EGB761) on behavioral recovery and expression of NGF, GAP-43 and B-actin mRNA after inducing unilateral entorhinal cortex lesions. In Christen, Y., Droy-Lefaix, M.T., Macias-Nunez, J.F., eds., *Effects of Ginkgo biloba Extract (Egb 761) on Neuronal Plasticity*. Amsterdam: Elsevier, 61-73.
- Stein, D.G. Roof, R.L. (1996) Mechanisms of injury and repair in traumatic brain injury. In Toole, J.F. and Good, D.C., eds., *Imaging in Neurologic Rehabilitation*, New York: Demos, Vermande, 79-90.
- Hoffman, S.W., Roof, R.L., Stein, D.G. (1996) A reliable and sensitive enzyme immunoassay method for measuring 8-isoprostaglandin: a marker for lipid peroxidation after experimental brain injury. *J Neurosci Methods* 68:133-136.
- Janis, S.L. Stein, D.G. (1996) Intraseptal injections of NGF attenuates edema formation following septal lesions in the rat. *Neurosci Let* 214:21-24.
- Jiang, N., Chopp, M., Stein, D.G., Feit, H. (1996) Progesterone is neuroprotective after transient middle cerebral artery occlusion in male rats. *Brain Res* 735:101-107.
- Stein, D.G. (1996) Recovery of Function. In J.G. Beaumont, ed., *Blackwell Dictionary of Neuropsychology*. London: Blackwell.
- Roof, R.L., Duvdevani, R., Heyburn, J.W., Stein, D.G. (1996) Progesterone rapidly decreases brain edema: Treatment delayed up to 24 hours is still effective. *Exp Neurol* 138: 246-251.
- Fulop, Z.L., Lescaudron, L., Geller, H.M., Sutton, R., Stein, D.G. (1997) Astrocytes grafted into rat nucleus basalis magnocellularis immediately after ibotenic acid injection fail to survive and have no effect on functional recovery. *Intl J Neurosci* 90:203-222.
- Jorgensen, O.S., Hansen, L.I., Hoffman, S.W., Fulop, Z., Stein, D.G. (1997). Synaptic remodeling and free radical formation after brain contusion injury in the rat. *Exp Neurol* 144:326-338.
- Glasier, M.M., Janis, L.S., Stein, D.G. (1997). Persistent short term memory deficits in Hebb-Williams maze performance are shown by rats with unilateral entorhinal cortex lesions. *Behav Neurosci* 111: 225-228.
- Hoffman, S.W. Stein, D.G. (1997). Extract of gingko biloba (EGb 761) improves behavioral performance and reduces histopathology after cortical contusion in the rat. *Rest Neurol Neurosci* 11:1-12.
- Roof, R.L., Hoffman, S.W., Stein, D.G. et al. (1997). Progesterone protects against lipid peroxidation following traumatic brain injury in rats. *Mol Chem Neuropathol* 31:1-11.
- Stein, D.G., Hoffman, S.W. (1997) Brain injury, functional recovery after. In *Encyclopedia of Neuroscience*, 2nd edition (CD-ROM), Adelman, G. and Smith, B.H., eds. Amsterdam: Elsevier Science.

- Fulop, Z.L., Wright, D.W., Stein, D.G. (1998) The pharmacology of traumatic brain injury: Experimental models and clinical implications. *Neurol Rep* 22:100-109.
- Janis, S.L., Glasier, M.M., Fulop, Z., Stein, D.G. (1998) Intra septal injections of 192 IgG saponin selectively impairs allocentric spatial learning in the rat. *Behav Brain Res* 90:23-34.
- Janis S.L., Hoane M.R., Conde D., Fulop Z.L., Stein D.G. (1998) Acute ethanol administration reduces the cognitive deficits associated with traumatic brain injury in rats. *J Neurotrauma* 15:105-115.
- Stein, D.G. (1998) Brain Injury and Theories of Recovery, in Goldstein, L. (ed.), *Restorative Neurology: Advances in Pharmacotherapy for Recovery After Stroke*. Armonk, New York: Futura:1-34.
- Stein, D.G., Fulop, Z.L. (1998) Progesterone and recovery after traumatic brain injury: an overview. *The Neuroscientist* 4:435-442.
- Oyesiku, N.M., Evans, C., Houston, S., Darrell, R.S., Smith, J.S., Fulop, Z.L., Dixon, C.E., Stein, D.G. (1999) Regional changes in the expression of neurotrophic factors and their receptors following acute traumatic brain injury in the adult rat brain. *Brain Res* 833:161-172.
- Roof, R.L. Stein, D.G. (1999) Gender differences in Morris water maze performance depend on task parameters. *Physiol Behav* 68:81-6.
- Glasier, M.M., Janis, L.S., Roof, R.L. Stein, D.G. (1999) Effects of unilateral entorhinal cortex lesion on retention of water maze performance. *Neurobio Learn Mem* 71:19-33.
- Glasier, M.M., Janis, L.S., Goncalves, M.I. and Stein, D.G. (1999) GM1 produces attenuation of short-term memory deficits in Hebb-Williams performance after unilateral entorhinal cortex lesions. *Physiol Behav* 66:441-6.
- Lescaudron, L. Stein D.G. (1999) Differences in memory impairment and response to GM1 ganglioside treatment following electrolytic or ibotenic acid lesions of the nucleus basalis magnocellularis. *Rest Neurol Neurosci* 15:25-37.
- Stein, D.G., Roof, R.L. Fulop, Z.L. (1999) Brain damage, sex hormones and recovery. In Stuss, D.T., Robertson, I.H., and Winocur, G., eds., *Cognitive Neurorehabilitation*. Cambridge, U.K.; New York: Cambridge University Press, 73-93.
- Stein, D.G. (2000) Brain injury and recovery. In Kazin, A., ed., *Encyclopedia of Psychology*. New York: Oxford University Press.
- Smith, J.S., Fulop, Z.L., Levinsohn, S.A., Darrell, R.S., Stein, D.G. (2000) Effects of the novel NMDA receptor antagonist Gacyclidine on recovery from medial frontal cortex contusion injury in rats. *Neuroplasticity* 7:73-91.
- Dietrich, A., Fülöp, Z.L., Chambers, M.D., Darrell, R.S., Stein, D.G. (2000) The effect of ginkgo biloba extract (EGb 761) on gliotic reactions in the hippocampal formation after unilateral entorhinal cortex lesions. *Rest Neurol Neurosci* 16:87-96.
- Grossman, K.J. Stein, D.G. (2000) Does endogenous progesterone promote recovery of chronic sensorimotor deficits following contusion to the forelimb representation of the sensorirmotor cortex? *Behav Brain Res* 116:141-148.
- He, J., Hoffman, S.W., Evans, C.-O., Simkins, R.M., Oyesiku, N.M. Stein, D.G. (2001) Neurosteroids modulate the expression of inflammatory cytokines after traumatic brain injury, *J. Neurotrauma* 18:1140.

- Tate, M.C., Shear, D.A., Hoffman, S.W., Stein, D.G., LaPlaca, M.C. (2001) Biocompatibility of methylcellulose-based constructs designed for intracerebral gelation and enhanced cell support following experimental traumatic brain injury. *Biomaterials* 22:1113-1123.
- Johnson D.A., Rivlin, E., Stein, D.G. (2001) Pediatric rehabilitation: improving recovery and outcome in childhood disorders. *Ped Rehab* 4:1-3.
- Galani, R., Hoffman, S.W., Stein, D.G. (2001) Effects of the duration of progesterone treatment on the resolution of cerebral edema induced by cortical contusions in rats. *Rest Neurol Neurosci* 18:161-166.
- Lescaudron, L., Fulop, Z., Sutton, R.L., Geller, H.M., Stein, D.G. (2001) Behavioral and morphological consequences of primary astrocytes transplanted into the rat cortex immediately after nucleus basalis ibotenic lesion. *Intl J Neurosci* 106:63-85.
- Stein, D.G. (2001) Brain damage, sex hormones and recovery: a new role for progesterone and estrogen? *Trends Neurosci* 24:386-91.
- Wright, D.W., Bauer, M.E., Hoffman, S.W., Stein, D.G. (2001) Serum progesterone levels correlate with decreased cerebral edema after traumatic brain injury in male rats. *J Neurotrauma* 18:901-909.
- Tate, M.C., Shear, D.A., Hoffman, S.W., Stein, D.G., Archer, D.R., LaPlaca, M.C. (2002) Fibronectin promotes survival of primary neural stem cells transplanted into the traumatically injured mouse brain. *Cell Transpl* 11:283-295.
- Tate, M.C., Shear, D.A., Stein, D.G., Archer, D.R., LaPlaca, M.C. (2002) Migration of neural stem cells is enhanced on laminin and fibronectin: implications for novel treatment strategies for traumatic brain injury. *Exp Neurol* 175(2): 421.
- Shear, D.A., Galani, R., Hoffman, S.W., Stein, D.G. (2002) Progesterone protects against necrotic damage and behavioral abnormalities caused by traumatic brain injury. *Exp Neurol* 178:59-67.
- Stein, D. G., Hoffman, S. W. (2003) Estrogen and progesterone as neuroprotective agents in the treatment of acute brain injuries. *Ped Rehab* 6:13-22.
- Stein, D.G., Hoffman, S.W. (2003) Concepts of CNS plasticity in the context of brain damage and repair. *J Head Trauma Rehab* 18:317-341.
- Djebaili, M., Hoffman, S.W. Stein, D.G. (2003) Allopregnanolone and progesterone decrease cell death and cognitive deficits after a contusion of the rat pre-frontal cortex. *J Neurotrauma* 20:1060.
- Hoffman, S.W., Virmani, S., Simkins, R.M., Stein, D.G. (2003) The delayed administration of dehydroepiandrosterone sulfate improves recovery of function after traumatic brain injury in rats. *J. Neurotrauma* 20:859-870.
- He, J., Hoffman, S. W., Stein, D. G. (2003) Allopregnanolone, a progesterone metabolite, enhances behavioral recovery and decreases neuronal loss after traumatic brain injury. *Rest Neurol Neurosci* 22:19-31.
- Goss, C., Hoffman, S.W., Stein, D.G. (2003) Behavioral effects and anatomic correlates after brain injury: A progesterone dose-response study. *Pharmacol Biochem Behav* 76:231-242.

- Stein, D. G. (2004) Brain trauma, sex hormones, neuronal survival and recovery of function, in *Principles of Gender-Specific Medicine*, ed. Marianne Legato. Academic Press:104-115.
- Stein, D.G. (2004) A personal perspective on the selling of academia," in D.G. Stein, ed., *Buying in or Selling Out: The Commercialization of the American Research University*, New Brunswick NJ: Rutgers University Press, 1-16.
- He, J., Evans, C., Hoffman, S.W., Oyesiku, N. M., Stein, D.G. (2004) Progesterone and allopregnanolone reduce inflammatory cytokines after traumatic brain injury. *Exp Neurol* 189:404-12.
- Grossman, K., Goss, C., Stein, D.G. (2004) Effects of progesterone on the inflammatory response to brain injury in the rat. *Brain Res* 1008:29-39.
- Djebaili, M., Hoffman, S.W., Stein, D.G. (2004) Allopregnanolone and progesterone decrease cell death and cognitive deficits after a contusion of the rat pre-frontal cortex. *Neuroscience* 123: 349-59.
- Shear, D.A., Tate, M.C., Archer, D.R., Hoffman, S.W., Hulce, V.D, LaPlaca, M.C, Stein, D.G. (2004) Neural stem cell transplants promote long-term recovery after traumatic brain injury without neuronal replacement. *Brain Res* 1026:11-22.
- Whishaw, I.Q., Piecharka, D.M., Zeeb, F., Stein, D.G. (2004) Unilateral frontal lobe contusion and forelimb function: chronic quantitative and qualitative impairments in reflexive and skilled forelimb movements in rats. *J Neurotrauma* 21:1584-600.
- Djebaili, M., Guo, Q., Pettus, E.H., Hoffman, S.W., Stein, D.G. (2005) Neurosteroids progesterone and allopregnanolone reduce cell death, gliosis and functional deficits after TBI in rats. *J Neurotrauma* 22:106-18.
- Stein, D.G. (2005) The Case for Progesterone. In Proceedings of the New York Academy of Sciences, *The Future of Estrogen and Hormone Therapy in Postmenopausal Women: What Basic Science and Clinical Studies Teach Us*, ed. M. Singh et al. New York: *Annals NY Acad Sci* 1052:152-169.
- Meffre, D., Delespierre, B., Gouézou1, M., Leclerc, P., Vinson, G.P., Schumacher, M., Stein, D.G., Guennoun, R. (2005) The membrane-associated progesterone-binding protein 25-Dx is expressed in brain regions involved in water homeostasis and is up-regulated after traumatic brain injury. *J Neurochem* 93: 1314-26.
- Pettus, E., Wright, D.W., Stein, D.G., Hoffman, S.W. (2005) Progesterone treatment inhibits inflammatory agents that accompany traumatic brain injury. *Brain Res* 1049:112-119.
- Cutler, S.M., Pettus, E.H., Hoffman, S.W., Stein, D.G. (2005) Tapered progesterone withdrawal enhances behavioral and molecular recovery after traumatic brain injury. *Exp Neurol* 195: 423-9.
- Stein, D.G., and Hoffman, S.W. (2006) Brain injury, functional recovery after. In Adelman, G. and Smith, B.H., eds., *Encyclopedia of Neuroscience*, 3rd edition. Amsterdam: Elsevier Science.
- Stein, D.G. (2006) Traumatic Brain Injury. *Encyclopedia of Disability*, ed. Gary Albrecht. Dallas, TX: Sage Publications.
- Sayeed, I., Guo, Q., Hoffman, S.W., Stein, D.G. (2006) Allopregnanolone, a progesterone metabolite, is more effective than progesterone in reducing cortical infarct volume after transient middle cerebral artery occlusion. *Ann Emer Med* 47: 381-389.
- Guo, Q., Sayeed, I., Baronne, L.M., Hoffman, S.W., Guennoun, R., Stein, D.G. (2006) Progesterone administration modulates AQP4 expression and edema after traumatic brain injury in male rats. *Exp Neurol* 198: 469-478.

- Cutler, S.M., VanLandingham, J.W., Hoffman, S.W., Stein, D.G. (2006) Tapered progesterone withdrawal promotes long-term recovery following brain trauma. *Exp Neurol* 200(2):378-85.
- Cutler, S.M., VanLandingham, J.W., Murphy, A.Z., Stein, D.G. (2006) Slow-release and injected progesterone treatments enhance acute recovery after traumatic brain injury. *Pharmacol Biochem Behav* 84(3): 420-8.
- Tate, C.C., Shear, D.A., Tate, M.C., Archer, D.R., Stein, D.G., LaPlaca, M.C. (2006) Laminin enhances survival of neural stem cells transplanted into the traumatically injured brain. *J Neurotrauma* 23(6): 985-1041.
- Stein, D.G. (2006) Progesterone in the experimental treatment of peripheral and central nervous system injuries. *Fut Neurol* 1(4): 429-438.
- Stein, D.G. (2006) What does menopause have to do with traumatic brain injury? *Brain Inj Prof* 3(1): 22-27.
- Stein, D.G., Hoffman, S.W., Pharmacotherapy for Traumatic Brain Injury (2007). In *Handbook of Contemporary Neuropharmacology*, David Sibley, Israel Hanin, Michael Kuhar, and Phil Skolnick, eds. Hoboken, NJ: John Wiley and Sons.
- VanLandingham, J.W., Cutler, S.M., Virmani, S., Hoffman, S.W., Covey, D. F., Krishnan, K., Hammes, S. R., Jamnongjit, M., Stein, D.G. (2006) The enantiomer of progesterone acts as a neuroprotectant after traumatic brain injury: a cell culture and in vivo assay analysis. *Neuropharmacology* 51: 1078-1085.
- Stein, D.G. (2007). Brain injury, functional recovery after. *New Encyclopedia of Neuroscience*. 3d edition. New York: Elsevier.
- Wright, D. W., Kellermann, A. L., Hertzberg, V. S., Clark, P. L., Frankel, M., Goldstein, F. C., Salomone, J. P., Dent, L. L., Harris, O. A., Ander, D. S., Lowery, D. W., Patel, M. M., Denson, D. D., Gordon, A. B., Wald, M. M., Gupta, S., Hoffman, S. W., Stein, D. G. (2007) ProTECTTM A Randomized Clinical Trial of Progesterone for Acute Traumatic Brain Injury. *Ann Emer Med* 49(4): 391-402.
- Sayeed, I., Wali, B., Stein, D.G (2007) Progesterone inhibits ischemic brain injury in a rat model of permanent middle cerebral artery occlusion. *Rest Neurol Neurosci* 25: 151-159.
- Schumacher, M., Guennoun, R., Stein, D.G., De Nicola, A.F. (2007). Progesterone: therapeutic opportunities for neuroprotection and myelin repair. *Pharm Therapeutics* 116:77-107.
- Cutler, S.M., Cekic, M., Miller, D.M., Wali, B., Vanlandingham, J.W., Stein, D.G. (2007) Progesterone improves acute recovery after traumatic brain injury in the aged rat. *J Neurotrauma* 241:1475-86.
- Vanlandingham, J.W., Cekic, M., Cutler, S.M., Hoffman, S.W., Stein, D.G. (2007) Neurosteroids reduce inflammation after TBI through CD55 induction. *Neurosci Lett* 425(2): 94-98.
- Jang, S.W., Okada, M., Sayeed, I., Xiao, G., Stein, D.G., Jin, P., Ye, K. (2007) Gambogic amide, a selective agonist for TrkA receptor that possesses robust neurotrophic activity, prevents neuronal cell death. *PNAS* 104(41): 16329–16334.
- Stein, D.G. (2007) Sex differences in brain damage and recovery of function: experimental and clinical findings. *Prog Brain Res* 161: 339-51.
- Meffre, D., Pianos, A., Liere, P., Eychenne, B., Cambourg, A., Schumacher, M., Stein, D. G., Guennoun, R. (2007) Steroid profiling in brain and plasma of male and pseudopregnant female rats

- after traumatic brain injury: analysis by gas chromatography/mass spectrometry. *Endocrinology* 148: 2505-17.
- Guennoun, R., Meffre, D., Labombarda, R., Gonzalez, S., Gonzalez-Deniselle, M.C., Stein, D.G., De Nicola, A.F., Schumacher, M. (2008) The membrane-associated progesterone-binding protein 25-Dx: expression, cellular localisation and up-regulation after brain and spinal cord injuries. *Brain Res Rev* 8:493-505. Published online: http://dx.doi.org/10.1016/j.brainresrev.2007.05.009
- Meffre, D., et al., 3beta-Hydroxysteroid dehydrogenase/5-ene-4-ene isomerase mRNA expression in rat brain: effect of pseudopregnancy and traumatic brain injury. *J Steroid Biochem Mol Biol*, 2007. 104(3-5): 293-300.
- Wright, D.W., Hoffman, S.W., Virmani, S., Stein, D.G. (2008) Effects of medroxyprogesterone acetate on cerebral oedema and spatial learning performance after traumatic brain injury in rats. *Brain Inj* 22(2): 107-13.
- Stein, D.G., Wright, D.W., Kellermann, A.L. (2008) Does progesterone have neuroprotective properties? *Ann Emer Med.* 51: 164-72. 17588708
- Stein, D.G. (2008) Progesterone exerts neuroprotective effects after brain injury. *Brain Res* 57: 386-397.
- VanLandingham, J.W., Cekic, M., Cutler, S.M., Washington, E.R., Johnson, S.J., Miller, D., Hoffman, S.W., Stein, D.G. (2008) Progesterone and its metabolite allopregnanolone differentially regulate hemostatic proteins after traumatic brain injury. *J Cereb Blood Flow Metab*. 28(11): 1786-94.
- Stein, D.G., Hurn, P.D. (2009) Effects of Sex Steroids on Damaged Neural Systems. Pfaff, D.W., Arnold, A.P., Etgen, A.M. Fahrbach, S. E., Rubin, R. T. et al., eds. *Hormones, Brain and Behavior*, 2d edition. Oxford: Elsevier. 2223-2258.
- Ishrat, T., Sayeed, I., Atif, F., Stein, D.G. (2009) Effects of progesterone administration on infarct size and functional deficits following permanent focal cerebral ischemia in rats. *Brain Res.* 1257: 94-101.
- Sayeed, I., Parvez, S., Wali, B., Siemen, D., Stein, D.G. (2009) Direct inhibition of the mitochondrial permeability transition pore: a possible mechanism for better neuroprotective effects of allopregnanolone over progesterone. *Brain Res.* 1263:165-73.
- Sayeed, I., Stein, D.G. (2009) Progesterone as a Neuroprotective Factor in Traumatic and Ischemic Brain Injury. In: Graham Webb, editor: Vol 175, *Neurotherapy: Progress in Restorative Neuroscience and Neurology*, Joost Verhaagen, Elly M. Hol, Inge Huitinga, Jan Wijnholds, Arthur A. Bergen, Gerald J. Boer and Dick F. Swaab. The Netherlands: Elsevier, 2009, pp. 219–237.
- Cekic, M., Sayeed, I., Stein, D.G. (2009) Combination treatment with progesterone and vitamin D hormone may be more effective than monotherapy for traumatic brain injury. *Front Neuroendocrinol* 30: 158-72.
- Atif, F., Sayeed, I., Ishrat, T., Stein, D.G. (2009) Progesterone with vitamin D affords better neuroprotection against excitotoxicity in cultured cortical neurons than progesterone alone. *Mol Med* 15: 328-36.
- Tate, C.C., Shear, D.A., Tate, M.C., Archer, D.R., Stein, D.G., LaPlaca, M.C. (2009) Laminin and fibronectin scaffolds enhance neural stem cell transplantation into the injured brain. *J Tissue Eng Regen Med* 3:208-217.

- Kasturi, B.S., Stein, D.G. (2009) Traumatic brain injury causes long-term reduction in serum Growth Hormone and persistent gliosis in the cortical-hypothalamo-pituitary axis of adult male rats. *J Neurotrauma* 26:1-10.
- Kasturi, B.S., Stein, D.G. (2009) Progesterone decreases traumatic brain injury-induced cortical and sub-cortical edema in young and aged ovariectomized rats. *Rest Neurol Neurosci* 27: 265-75.
- MacNevin, C.J. Atif, F., Sayeed, I., Stein, D.G., Liotta. D.C (2009) Development and screening of water-soluble analogues of progesterone and allopregnanolone in models of brain injury. *J Med Chem* 52: 6012–6023.
- Hua, F., Wang, J., Sayeed, I., Ishrat, T., Atif, F., Stein, D.G. (2009) The TRIF-dependent signaling pathway is not required for acute cerebral ischemia/reperfusion injury in mice. *Biochem Biophys Res Commun* 390(3): 678-83.
- Cekic, M., Cutler, S.M., VanLandingham, J.W., Stein, D.G. (2009) Vitamin D deficiency reduces the benefits of progesterone treatment after brain injury in aged rats. *Neurobiol Aging* 32:864-874.
- Cekic, M., Stein, D.G. (2010) Traumatic brain injury and aging: is a combination of progesterone and vitamin D hormone a simple solution to a complex problem? *Neurotherapeutics* 7:81-90.
- Cekic, M., Stein, D.G. (2010) Progesterone treatment for brain injury: an update. *Future Neurol* 5(1): 37–46.
- Stein, D.G., Wright, D.W. (2010) Progesterone in the clinical treatment of acute traumatic brain injury. *Exp Op Invest Drugs* 19(7): 847-57.
- Stein, D.G. (2010) The promise of progesterone. *TBI Challenge* of the Brain Injury Association of America. Summer, pp. 14, 22.
- Stein, D.G. (2010) Is progesterone worth consideration as a treatment for brain injury? *AJR* 194(1) 20-22.
- Ishrat, T., Sayeed, I., Atif, F., Hua, F., Stein, D.G. (2010) Progesterone and allopregnanolone attenuate blood-brain barrier dysfunction following permanent focal ischemia by regulating the expression of matrix metalloproteinases. *Exp Neurol* 226: 183-90.
- Stein, D.G. (2010) ELSI: Creating Bureaucracy for Fun and Profit. AJOB 1 (4): 21.
- Wali, B., Sayeed, I., Stein, D.G. (2011) Improved behavioral outcomes after progesterone administration in aged male rats with traumatic brain injury. *Rest Neurol Neurosc.* 29: 61–71
- Grossman, K.J., Goss, C.W., Stein, D.G. (2011) Sickness behaviors following medial frontal cortical contusions in male rats. *Behav Brain Res* 217: 202-208.
- Stein, D.G., Cekic, M. (2011) Progesterone and Vitamin D Hormone as a biologic treatment of traumatic brain injury in the aged. *PM&R* 3, S100-10. S1934-1482.
- Stein, D.G. (2011) Progesterone in the treatment of acute traumatic brain injury: a clinical perspective and update. *Neurosci* 101 191-06.
- Stein, D.G. (2011) Is progesterone a worthy candidate as a novel therapy for traumatic brain injury? *Dial Clin Neurosci*.13:352-9.
- Barha, C.K., Ishrat, T., Epp, J.R., Galea, L., Stein, D.G. (2011) Progesterone treatment normalizes the levels of cell proliferation and cell death in the dentate gyrus of the hippocampus after traumatic brain injury. *Exp Neurol*. 231:72-81.

- Hua, F., Wang, J., Ishrat, T., Wei, W., Atif, F., Sayeed, I., Stein, D.G. (2011) Genomic profile of Toll-like receptor pathways in traumatically brain injured mice: effect of exogenous progesterone. *J Neuroinflammation* 8:42; Epub 5/10/2011: 1742-2094-8-42 [pii] 10.1186/1742-2094-8-42.
- Atif, F., Sayeed, I., Yousuf, S., Ishrat, T., Hua, F., Wang, J., Brat, D.J., Stein, D.G. (2011) Progesterone inhibits the growth of human neuroblastoma: In vitro and in vivo evidence. *Mol Med.* 17: 1084-94
- Shear, D.A., Tate C.C., Tate, M.C., Archer, D. R., LaPlaca, M.C., Stein, D.G., Dunbar, G.L. (2011) Stem cell survival and functional outcome after traumatic brain injury is dependent on transplant timing and location. *Rest Neurol Neurosci*. 29: 215-226.
- Wright, D.W., Stein, D.G., Sayeed, I., Hua, F., Atif, F., Yousuf, S., Ishrat, T., Wali, B. (2012) Response to: do pregnant women have improved outcomes after traumatic brain injury? *Am J Surg.* 204:803-4.
- Cekic, M., Johnson, S.J., Bhatt, V.H., Stein, D.G. (2012) Progesterone treatment alters neurotrophin/proneurotrophin balance and receptor expression in rats with traumatic brain injury. *Rest Neurol Neurosci* 28, 1-12.
- Ishrat, T., Sayeed, I., Atif, F., Hua, F., Stein, D.G. (2012) Progesterone is neuroprotective against ischemic brain injury through its effects on the phosphoinositide 3-kinase/protein kinase B signaling pathway. *Neuroscience* 210:442-450
- Wali B, Ishrat T, Atif F, Hua F, Stein DG, Sayeed I. (2012) Glibenclamide administration attenuates infarct volume, hemispheric swelling, and functional impairments following permanent focal cerebral ischemia in rats. *Stroke Research and Treatment* doi: 10.1155/2012/460909. [Epub 2012 Sep 4.]
- Hua, F., Reiss, J.I., Tang, H., Wang, J., Fowler, X., Sayeed, I., Stein, D.G. (2012) Progesterone and low-dose Vitamin D hormone treatment enhances sparing of memory following traumatic brain injury. *Hormones and Behavior* 61:642-651.
- Guthrie, D.B., Stein, D. G., Liotta, D. C., Lockwood, M. A., Sayeed, I., Atif, F., Arrendale, F., Reddy, G. P., Evers, T. J., Marengo, J. R., Howard, R. B., Culver, D. G., Natchus, M. G. (2012) Water-soluble progesterone analogues are effective, injectable treatments in animal models of traumatic brain injury. *ACS Medicinal Chemistry Letters* 3(5): p. 362-366.
- Meffre, D., Labombarda, F., Delespierre, B., Chastre, A., De Nicola, A.F., Stein, D. G., Schumacher, M., Guennoun, R. (2012) Distribution of membrane progesterone receptor alpha in the male mouse and rat brain and its regulation after traumatic brain injury. *Neuroscience*. pii: S0306-4522(12)01150-5. doi: 10.1016/j.neuroscience.2012.11.039. [Epub ahead of print]
- Stein, D.G. (2013) Concepts of CNS plasticity and their implications for recovery after brain damage. In Zasler, N., Katz, D., and Zafonte, R., eds., *Brain Injury Medicine*, 2d ed., New York, N.Y: Demos Medical Publishing, pp. 162-174.
- Atif, F., Yousuf, S., Sayeed, I., Ishrat, T., Hua, F., Stein, D.G. (2013) Combination treatment with progesterone and vitamin D hormone is more effective than monotherapy in ischemic stroke: the Role of BDNF/TrkB/Erk1/2 signaling in neuroprotection. *Neuropharmacology* 67: 78-87.

- Yousuf, S., Atif, F., Sayeed, I., Wang, J., Stein, D.G. (2013) Post-stroke infections exacerbate ischemic brain injury in middle-aged rats: immunomodulation and neuroprotection by progesterone. *Neuroscience* 239: 92-102.
- Stein, D.G. (2013) A clinical/translational perspective: can a developmental hormone play a role in the treatment of traumatic brain injury? *Horm Behav* 32: 864-74.
- Tang, H., Hua, F., Wang, J., Sayeed, I., Wang, X., Chen, Z., Yousuf, S., Atif, F, Stein, D.G. (2013) Progesterone and vitamin D: improvement after traumatic brain injury in older rats. *Horm Behav* 64(3):527-538.
- Wali, B., Ishrat, T., Won, S., Stein, D.G., Sayeed, I. (2014) Progesterone in experimental stroke: A dose-response and therapeutic time window study. *Brain* 137:486-502.
- Won, S., Lee, J.H., Wali, B., Stein, D.G., Sayeed, I. (2014) Progesterone attenuates hemorrhagic transformation after delayed tPA treatment in experimental stroke: Possible involvement of VEGF-MMP pathway. *J Cereb Blood Flow Metab* 34:72-80.
- Allen, R.S., Sayeed, I., Cale, H.A., Morrison, K.C., Boatright, J.H., Pardue, M.T., Stein, D.G. (2014) Severity of middle cerebral artery occlusion determines retinal deficits in rats. *Exp Neurol* 254: 206-215
- Yousuf, S., Sayeed, I., Atif, F., Tang, H., Wang, J., Stein, D.G. (2014) Delayed progesterone treatment reduces brain infarction and improves functional outcomes following ischemic stroke: A time-window study. *J Cereb Blood Flow Metab* 34:297-306.
- Geddes, R.I., Sribnick, E.A., Sayeed, I., Stein, D.G. (2014) Progesterone treatment shows benefit in a pediatric model of bilateral brain injury. *Plos One*. Published: January 28, 2014 DOI: 10.1371/journal.pone.0087252
- Allen, R.S., Stein, D.G. (2014) Progesterone as a potential neuroprotective treatment in the retina. *Expert Rev Ophth* 9:375-385 (doi:10.1586/17469899.2014.949673)
- Yousuf, S., Atif, F., Sayeed, I., Tang, H., Wang, J., Stein, D.G. (2014) Progesterone in transient ischemic stroke: a dose-response study. *Psychopharmacology* 231:3313-23.
- Wright, D.W., Espinoza, T.R., Merck, L.H., Ratcliff, J.J., Backster, A., Stein, D.G. (2014) Gender differences in neurological emergencies Part II: A consensus summary and research agenda on traumatic brain injury. *Acad Emerg Med* 21, 1414-20.
- Stein, D.G. (2015) On improving human clinical trials to the level of animal ischemic stroke studies. Short Communication. *Metab Brain Dis.* 30: 469-71.
- Stein, D.G., Geddes, R.I., Sribnick, E.A. (2015) Critical developments in clinical trials for the treatment of traumatic brain injury. In *Handbook of Clinical Neurology*, Third Series, ed. Grafman, J., Salazar, A.M. New York: Elsevier. Vol. 127, Chapter 28, pp. 433-451.
- Atif, F., Yousuf, S., Stein, D.G. (2015) Anti-tumorigenic effects of progesterone against human glioblastoma multiforme: role of PI3K/Akt/mTOR signaling. *Steroid Biochem Mol.* 146:62-73. doi: 10.1016/j.jsbmb.2014.04.007. Epub 2014 Apr 28.
- Hua, F., Tang, H., Wang, J., Prunty, M. C., Hua, X., Sayeed, I., Stein, D.G. (2015) Tak-242, an antagonist for toll-like receptor 4, protects against acute cerebral ischemia/reperfusion injury in mice. *J Cereb Blood Flow Metab* 35(4):536-42.

- Yousuf, S., Atif, F, Sayeed, I, Tang, H., Wang, J., Stein, D.G. (2015) Long-term behavioral deficits and recovery after transient ischemia in middle-aged rats: Effects of behavioral testing. *Rest Neurol Neurosci* 2015 Jan 26. [Epub ahead of print]
- Won S., Sayeed, I., Peterson, B.L., Wali, B., Kahn, J.S., Stein, D.G. (2015) Vitamin D prevents hypoxia/reoxygenation-induced blood-brain barrier disruption via vitamin D receptor-mediated NF-kB signaling pathways. *Plos One* 2015 Mar 27;10(3):e0122821. doi: 10.1371/journal.pone.0122821
- Peterson, B.I., Won, S., Geddes, R.I., Sayeed, I., Stein, D.G. (2015) Sex-related differences in effects of progesterone following neonatal hypoxic brain injury. *Behav Brain Res* 286C:152-165.
- Lee, J.H., Won, S., Sayeed, I., Stein, D.G. (2015) Progesterone attenuates thrombin-induced endothelial barrier disruption in brain endothelial cells: the role of tight junction proteins and the endothelial protein C receptor. *Brain Res.*. http://dx.doi.org/ 10.1016/j.brainres.2015.04.002
- Sun, Y.Y., Li, Y., Wali, B., Li, Y., Lee, J., Heinmiller, A., Abe, K., Stein, D.G., Mao, H., Sayeed, I., Kuan, C.Y. (2015) Prophylactic edaravone prevents transient hypoxic-ischemic brain injury: implications for perioperative neuroprotection. *Stroke* 46:1947-55.
- Tang, H., Hua, F., Wang, J., Yousuf, Y., Atif, F., Sayeed, I., Stein, D.G. (2015) Progesterone and vitamin D combination therapy modulates inflammatory response after traumatic brain injury. *Brain Inj* 29:1165-1174.
- Stein, D.G., Embracing failure: What the Phase III progesterone studies can teach about TBI clinical trials (2015) *Brain Inj* 26:1259-72.
- Margulies, S., Anderson, G., Atif, F., Badaut, J., Clark, R., Empey, P., Guseva, M., Hoane, M., Huh, J., Pauly, J., Raghupathu, R., Scheff, S., Stein, D.G., Tang, H., Hicks, M. (in press) Combination therapies for traumatic brain injury: retrospective considerations. *J Neurotrauma* 2015 Aug 6. [Epub ahead of print]; doi: 10.1089/neu.2014.3855
- Allen, R.S., Olsen, T.W., Sayeed, I., Cale, H.A., Morrison, K.C., Oumarbaeva, Y., Lucaciu, I., Boatright, J.H., Pardue, M.T., Stein, D.G. (2015) Progesterone treatment in two rat models of ocular ischemia. *Invest Ophth Vis Sci* 56: 2880-91.
- Remus, E.W., Sayeed, I., Won, S., Lyle, A.N., Stein, D.G. (2015) Progesterone protects endothelial cells after cerebrovascular occlusion by decreasing MCP-1- and CXCL1-mediated macrophage infiltration. *Exp Neurol* 271:401-408.
- Howard, R.B., Sayeed, I.S., Stein, D.G. Suboptimal dosing as a factor in the failure of the Phase III trials of progesterone in TBI. *J Neurotrauma* 2016 Sep 15. [Epub ahead of print]
- Won, S., Stein, D.G. (2015) Recombinant tissue plasminogen activator promotes, and progesterone attenuates, microglia/macrophage M1 polarization and recruitment of microglia after MCAO stroke in rats. *Brain Behav Immun.* 49:267-79.
- Atif, F., Patel, N.R., Yousuf, S., Stein, D.G. (2015) The synergistic effect of combination progesterone and temozolomide on human glioblastoma cells. *Plos One* 10: e0131441

- Geddes, R.I., Sayeed, I., Peterson, B.L., Stein, D.G. (2016) Progesterone treatment shows benefit in adolescent female rats with controlled cortical impact injury. *PlosOne* 2016 Jan 22;11(1):e0146419. doi: 10.1371/journal.pone.0146419.
- Atif, F., Yousuf, S., Stein, D.G. (2016) Progesterone in neonatal arterial ischemic stroke and acute seizures: Role of BDNF/TrkB signaling. *Neuropharmacology* 107:317-328.
- Stein, D.G., Howard, R.B., Sayeed, I. Why did the Phase III clinical trials for progesterone in TBI fail? An analysis of three potentially critical factors. *New Therapeutics for Traumatic Brain Injury: Prevention of Secondary Brain Damage and Enhancement of Repair and Regeneration*, ed. K.A. Heidenreich. San Diego, CA: Elsevier.
- Stein, D.G. Brain injury: functional recovery after. Neuroscience and Biobheavioral Psychology [Online Reference Module]. Oxford, UK: Elsevier. 2016.
- Wali, B., Sayeed, I., Guthrie, D.B., Natchus, M.G., Turan, N., Liotta, D.C., Stein, D.G. (2016) Evaluating the neurotherapeutic potential of a water-soluble progesterone analog after traumatic brain injury in rats. *Neuropharmacology* 109:148-158.
- Yousuf, S., Atif, F., Sayeed, I., Wang, J., Stein, D.G. Neuroprotection by progesterone after transient cerebral ischemia in Stroke-Prone Spontaneously Hypertensive Rats. *Horm Behav.* 2016 Aug;84:29-40. doi: 10.1016/j.yhbeh.2016.06.002. Epub 2016 Jun 6.
- Wali, B., Ishrat, T., Stein, D.G., Sayeed, I. Delayed progesterone treatment improves long-term functional and histological outcomes following permanent stroke in older rats *Brain*.
- Allen, R.S., Sayeed, I.S., Oumarbaeva, Y., Morrison, K.C., Choi, P.H., Pardue, M.T., Stein, D.G. Progesterone treatment shows greater protection in brain vs. retina in a rat model of middle cerebral artery occlusion due to levels of progesterone receptor. *Rest Neuol Neurosci*. 2016, 34(6), 947-963
- Turan, Nefize; Heider, Robert; Nadeem, Maheen; Miller, B, Sayeed, Iqbal; Stein, Donald; Pradilla, G Neurobehavioral testing in subarachnoid hemorrhage: review of methods and current findings in rodents. *J Cereb Blood Flow Metab*. Jan 1:271678X16665623. doi: .1177/0271678X16665623. [Epub ahead of print]
- Cernak, I., Stein, D.G. The SOTA Discussion Panel, Elder, G.A. (in press) Preclinical modeling of militarily relevant traumatic brain injuries: Challenges and recommendations for future directions. *Brain Injury*.
- Stein, D.G. (2016) Effects of Sex Steroids on Damaged Neural Systems. Pfaff, D.W., Arnold, A.P., Etgen, A.M. Fahrbach, S. E., Rubin, R. T. et al., eds. *Hormones, Brain and Behavior*, 3d edition. Oxford: Elsevier.
- Atif, F., Yousuf, S., Brat, D.J., Shu, H.K, Wang, Y., Stein, D.G. (under review) Progesterone improves neurocognitive outcomes following therapeutic cranial irradiation in mice. *J. Neurotrauma*.
- Yousuf, S., Atif, F., Prunty, M.C., Wang, J., Stein, D.G. (submitted *Neurorinflammation*)) Effect of progesterone treatment in streptozotocin-induced diabetic neuropathy.

Atif F, Espinosa-Garcia C, Sayeed I, Sergeeva EG, Turan N, Wali B, Wright DW, Yousuf S, **Stein DG**. On the Limitations of Progesterone Treatment in Very Severe Traumatic Brain Injury: What Can Be Learned from Allitt et al., "Progesterone Exacerbates Short-Term Effects of Traumatic Brain Injury". *J Neurotrauma*. 2017 Apr 1;34(7):1488-1489. doi: 10.1089/neu.2016.4488. Epub 2016 Jun 10.

Atif F, Prunty MC, Turan N, Stein DG, Progesterone modulates diabetes/hyperglycemia-induced changes in the central nervous system and sciatic nerve. *Neuroscience*. 2017 Mar 14;350:1-12. doi: 10.1016/j.neuroscience. 2017.03.007. [Epub ahead of print]

Stein DG, Sayeed I, Espinosa-Garcia C, Atif F, Sergeeva EG. Goldstein et al.'s Secondary Analysis of Progesterone Clinical Trial for Traumatic Brain Injury Can Only Reflect the Same Trial Design Flaws: A Response to "Very Early Administration of Progesterone Does Not Improve Neuropsychological Outcomes in Subjects with Moderate to Severe Traumatic Brain Injury". *J Neurotrauma*. 2017 Feb 27. doi: 10.1089/neu.2016.4949. [Epub ahead of print]

Wali, B., Stein, D.G., Sayeed, I. Intralipid vehicle does not interfere with the efficacy of progesterone in attenuating edema following TBI. *J Neurotrauma*. 2017, 10.1089/neu.2016.4845. [Epub ahead of print]

Stein, D.G. (2016) Lost in translation: understanding the failure of the progesterone/TBI Phase III trials. *Future Neurol*. 11:9-13.

Stein, DG Lost and Found: What we have learned from the progesterone for TBI trials, an update, Future Neurol (2017), in press

Claudia Espinosa-Garcia^{1,*}, Iqbal Sayeed^{1,*}, Seema Yousuf¹, Fahim Atif¹, Elena G. Sergeeva¹, Gretchen N. Neigh² and Donald G. Stein^{1,*} Stress dysregulates microglial polarization after global ischemia: therapeutic intervention by progesterone, *J. Neuroinflammation* (under review)

Art and Gallery Exhibits

Artists Atelier, Art of the Autograph, Series 1, 2014 (one-man show)

Sandpiper Gallery, Polson Montana: Art of the Autograph, Series 2, 2015

Collage Gallery of Fine Art, Bigfork, Montana, Art of the Autograph, Series 3, 2016 (one-man show)

Emory University Faculty Art Exhibit, 2017 painting and abstract photographs

Orlando Museum of Art, The Art of Medicine, October 2017, National, juried competition, selected "Another Galaxy" by DGS for presentation.