

CURRICULUM VITAE

DATE: May 29, 2018

NAME: Teresa L. Wood

PRESENT TITLE: Professor and Rena Warshow Endowed Chair in Multiple Sclerosis

OFFICE ADDRESS: NJMS CINJ-Newark, H1200

TELEPHONE NUMBER/E-MAIL ADDRESS: 973-972-6529/terri.wood@rutgers.edu

CITIZENSHIP: US

EDUCATION:

- A. Undergraduate
Carleton College
Northfield, MN
B.A. Biology 1978

- B. Graduate and Professional
University of California
Los Angeles, CA
Ph.D. Biology 1987

POSTGRADUATE TRAINING:

- A. Internship and Residencies – none
- B. Research Fellowships – none
- C. Postdoctoral Appointments
Department of Neurobiology and Behavior, State University of New York, Stony Brook, NY
Neuroendocrinology
1987-1988

Department of Anatomy and Cell Biology, Columbia University, New York, NY
Molecular Neurobiology
1989-1992

MILITARY: None

ACADEMIC APPOINTMENTS:

Department of Pharmacology, Physiology & Neuroscience
Rutgers Biomedical & Health Sciences, New Jersey Medical School Newark, NJ
Professor and Rena Warshow Chair in Multiple Sclerosis
July 2015-present

Department of Neurology and Neuroscience
Rutgers Biomedical & Health Sciences (formerly University of Medicine and Dentistry of New Jersey), New Jersey Medical School Newark, NJ
Professor and Rena Warshow Chair in Multiple Sclerosis
Vice Chair for Basic Science, Department of Neurology & Neuroscience
October 2005-June 2015

Department of Neural and Behavioral Sciences
Penn State College of Medicine, Hershey, PA
Professor (Adjunct)
October 2005-September 2010

Department of Neural and Behavioral Sciences
Penn State College of Medicine, Hershey, PA
Associate Professor
July 1999- September 2005

Department of Neuroscience and Anatomy
Penn State College of Medicine, Hershey, PA
Assistant Professor
October 1993- June 1999

Department of Neuroscience and Cell Biology
University of Medicine and Dentistry New Jersey, Robert Wood Johnson Medical School, Piscataway,
NJ
Instructor
September 1992 – September 1993

HOSPITAL APPOINTMENTS: none

OTHER EMPLOYMENT OR MAJOR VISITING APPOINTMENTS:

Brain and Spinal Cord Institute, ICM
Pierre and Marie Curie University, Paris, France
Visiting Scientist
November 2014 – September 2015

PRIVATE PRACTICE: none

LICENSURE: none

DRUG LICENSURE: none

CERTIFICATION: none

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

AAAS, member, 1991 - present
Society for Neuroscience, member, -present
Endocrine Society, member, - present
Abstract reviewer, 2000-present
Member of Scientific Program Steering Committee, 2000-2003
International IGF Society, member, - present
Past President, Council Member, 2015-present
President, 2010-2014
Officer/council member, 1997-2014
Program Committee member, International GH/IGF Conference, 2004, 2006, 2012
Program Committee Chair for Basic IGFs, International GH/IGF Conference, 2010
Program Committee member, International IGF meeting, 1999
American Society for Neurochemistry, member, - present
President-Elect, 2017-2019
Council member, 2005-2009; 2016-2017
Scientific planning committee for Annual meeting, 2003, 2009
Program Chair, Annual Meeting, 2008
International ISN/ASN 2013 Meeting Proposal Chair, 2009-2010
Presidential Advisory Committee, 2004-2007
Myelin Satellite Meeting to the International Society for Neurochemistry, 2017, Co-chair
American Society for Cell Biology, member, 2004-present
International Society for Neurochemistry, member, 2010-present

European Society of Endocrinology, member 2012-2017
Initiator and co-chair of the first Gordon Research Conference on IGFs in Physiology and Disease,
March, 2003
Gordon Research Conference on Mammary Gland Biology, 2013 Co-chair; 2012 Vice-Chair

HONORS AND AWARDS:

Javits Neuroscience Investigator Award NINDS 2017-2024
Excellence in Research Award, Foundation of UMDNJ, 2010
University Professorship, UMDNJ, 2005-2010
Medal of Excellence Award, Musical Moments for Multiple Sclerosis Research, 2008
Service Award, National MS Society, Central PA Chapter, 2004
Career Development Award, Dept. of Defense Breast Cancer Research Program, 1999-2003
Excellence in Teaching Award 1999, Pennsylvania State University College of Medicine, Presented
by Medical Class of 2002
Travel award, Winter Conference on Brain Research Fellow, Snowmass, Colorado, 1996
Travel award, International IGFBP Meeting, Tuebingin, Germany, 1995
NRSA Postdoctoral Fellow, Columbia University, 1989-1990
NRSA Postdoctoral Fellowship, SUNY, Stony Brook, 1987-1988
NRSA Predoctoral Fellowship Award, UCLA, 1982-1986

BOARDS OF DIRECTORS/TRUSTEES POSITIONS: none

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

Ad Hoc Reviewer, NMSS Fellowship Review Panel, 2018
Ad Hoc Reviewer, NIH/Cell & Molecular Biology of Glia (CMBG), 2018
Reviewer, Science Foundation of Ireland, 2017
Reviewer, European Leukodystrophy Foundation, 2006, 2010, 2012, 2017
Ad Hoc Reviewer, NIH/Molecular Oncology Study Section (MONC), 2016-2017
Ad Hoc Reviewer, National Multiple Sclerosis Society Grant Review Panel A, 2017
Reviewer, Department of Defense Review Panel, 2016, 2018
Ad Hoc Reviewer, NIH/Integrative and Clinical Endocrinology and Reproduction Study
Section (ICER), 2016
Reviewer, French Agence Nationale de la Recherche, 2016, 2018
Reviewer, French National Research Agency, 2016
Reviewer, Multiple Sclerosis Research of Australia, 2015
Chair, National Multiple Sclerosis Society Grant Review Panel A, 2012-2015
Ad Hoc Reviewer, NIH/NICHD Developmental Biology CHHD-C1, 2014
Chair, NIH SEP Molecular Neuroscience, ZRG1 MDCN-N (02), Spring/Fall 2011
Reviewer, National Multiple Sclerosis Society Grant Review Panel A, 2010-
Mail Reviewer, Challenge Grants in Glial Biology
National Institutes of Health, 2009
Ad Hoc Reviewer, Molecular Oncology Study Section
National Institutes of Health, 2009
Mail Reviewer, Diabetes Research and Training Center Grants
University of Michigan Diabetes Center
Member, Cellular and Molecular Biology of Glia Study Section
National Institutes of Health, 2007-2008
Member, Neural Degenerative Disorders and Glial Biology Study Section
National Institutes of Health, 2006
Reviewer, Cancer Research Commission, United Kingdom, 2005, 2006
Ad Hoc Reviewer, Molecular Oncology Study Section
National Institutes of Health, 2005
Ad Hoc Reviewer, Neurodegeneration and Biology of Glia Study Section,
National Institutes of Health 2004-2006
Ad Hoc Reviewer, Molecular, Cellular and Developmental Neuroscience-A Study
Section, National Institutes of Health 2004
Ad Hoc Reviewer, Mouse Models of Human Cancer Consortium Request for

Applications, National Cancer Institute, National Institutes of Health 2004
Ad Hoc Reviewer, Molecular, Cellular and Developmental Neuroscience-6 Study
Section, National Institutes of Health 2003
Reviewer, Natural Sciences and Engineering Research Council of Canada 2002
Reviewer, Alberta Heritage Foundation for Medical Research 2001
Reviewer, Special Emphasis Panel Special Emphasis Panel, National Institutes of
Health 2000
Outside reviewer, National Science Foundation 1999
Independent Grant Reviewer, Department of Veterans Affairs 1999
Scientist Reviewer for National Center for Toxicological Research, Department of Health and
Human Services 1998
Grant Reviewer, Spinal Cord Research Foundation 1996-1997
Outside reviewer, General Medicine Study Section, NIH 1994

SERVICE ON MAJOR COMMITTEES:

- A. International - None
- B. National - None
- C. Medical School/University
 - Member, Histology Core Facility Advisory Committee, 2017-present
 - Member, Genome Editing Core Facility Advisory Committee, 2016-present
 - Chair, Rutgers Klein Endowed Chair Search Committee, 2016-2017
 - Chair, Reviewer, Grant Review Panel for New Jersey Health Foundation, 2016
 - Panel Advisory Board Member, Brain Health Institute, Rutgers University, 2015-present
 - Co-Chair, RBHS Strategic Planning Working Group on Neuroscience, 2014
 - Reviewer, NJMS Bridge Grant Program, 2014
 - Member, Search Committee for Strongwater Endowed Chair and Director, Brain Health
Institute, Rutgers University, 2013-2014
 - Member, Search Committee for Chair, Dept. Neurology & Neuroscience 2012-2014
 - Track Director, Cell Biology, Neuroscience & Physiology Graduate Program, NJMS/GSBS,
2010- 2014
 - Member, Investigative Panel for Research Integrity, UMDNJ, 2009-2011
 - Member, Committee to Revise Core Curriculum for Graduate Training, 2009-2010
 - Chair, Committee to Evaluate Goals for Graduate Education at NJMS/UMDNJ
 - Member, Transgenic Oversight Committee, 2009-present
 - Member, Faculty Search Committee for the NJMS Cancer Center, 2007-2008
 - Chair, Faculty Oversight Committee for Transgenic Core Facility, NJMS, 2007-2009
 - Member, Search Committee for Faculty Position in Quantitative Neuroscience, New Jersey
Medical School, 2007-present
 - Faculty Mentor for Dr. Deborah Lazzarino, NJMS Faculty Mentoring Program
 - Chair, Committee to Develop the Neuroscience Institute, NJMS, 2006-present
 - Member, Presidents Strategic Advisory Council, UMDNJ, 2005-2006
 - PSU Integrated Biosciences Graduate Program Committee, Member 2004-2005
 - Scientific Leadership Committee for the Penn State Cancer Institute, Member 2003-2005
 - Executive Committee, PSU Intercollege Graduate Program in Genetics, Member 1995-2005
 - PSU/COM Transgenic Mouse Facility, Co-Director/Consultant 1995-2005
 - Advisory Committee for the PSU Intercollege Graduate Program in Cell and Molecular
Biology, 1995-2004
 - Interview Committee for Cell and Molecular Biology Graduate Program, Member 1994-2004
 - PSU Graduate Research Forum, Faculty Evaluator 1994-2004
 - PSU Life Sciences Consortium Steering Committee, Member 2000-2003
 - RA-10 Investigative Committee for Penn State University, Member 2003
 - Search Committee for Chair of the Department of Psychiatry, PSU/COM 2002-2003
 - PSU Life Sciences Consortium Nominating Committee, Member 2001-2002
 - PSU Life Sciences Consortium Seed Grant Review Committee, Member 2001
 - PSU Tobacco Review Settlement Board Grant Review Committee, Member 2001

PSU/COM Committee for Biomedical Department Websites Project, Member 2000
PSU/COM Cancer Center Research Grant Review Committee, Member 1998
PSU/COM Steering Committee for Graduate Recruitment, Member 1995-1997
PSU Graduate Research Exhibition, Member of Judging Committee 1995

- D. Hospital – *none*
- E. Department
Task Force for Department Recruitment 2011-2012
Graduate Recruitment Committee for Neuroscience and Anatomy Graduate Program,
PSU/COM, 1994-1995
Faculty Recruitment Committee, Department of Neuroscience and Anatomy, PSU/COM,
1994-1995
- F. Editorial Boards
Review Editor, *Molecular and Structural Endocrinology*, *Frontiers in Endocrinology*, 2016-
present
Associate Editor, *Journal of Neuroscience*, 2015-present
Associate Editor, *Frontiers in Cancer Endocrinology*, 2015-present
Review Editor, *Frontiers in Cancer Endocrinology*, 2014-present
Guest Editor, *Journal of Mammary Gland Biology and Neoplasia* “Methods in Mammary
Gland Biology and Breast Cancer”, 2012
Growth Hormone and IGF Research, 2011-present
ASN Neuro, 2008-present
Guest Editor, *Journal of Mammary Gland Biology and Neoplasia* “The IGF System in
Mammary Development and Breast Cancer”, December 2008
Developmental Neuroscience, 2007-2012
Journal of Biological Chemistry, 2006-2011
Guest Editor, *Journal of Mammary Gland Biology and Neoplasia*, “The Cell Cycle in
Mammary Development and Breast Cancer, January, 2004
Endocrinology 2001 – 2004
Guest Editor, *Journal of Mammary Gland Biology and Neoplasia* “The Insulin-Like Growth
Factors and Insulin-Like Growth Factor Binding Proteins in the Mammary Gland and in
Breast Cancer”, January, 2000
Journal of Mammary Gland Biology and Neoplasia, 2000 – present
- G. *AdHoc* Reviewer
American Journal of Physiology, American Journal of Physiology & Endocrinology, ASN-
Neuro, Autophagy, Brain, Brain Research, Breast Cancer Research, Cancer Research,
Cancers, Carcinogenesis, Cell Communication & Signaling, Developmental Neuroscience,
Endocrinology, Experimental Neurology, Frontiers in Cancer Endocrinology, GLIA, Growth
Hormone & IGF Research, Journal of Biological Chemistry, Journal of Cellular Physiology,
Journal of Clinical Investigation, Journal of Endocrinology, Journal of Neurobiology, Journal
of Neurochemistry, Journal of Neuroscience, Journal of Neuroscience Research, Lung,
Mechanisms of Ageing and Development, Molecular and Cellular Biology, Molecular and
Cellular Endocrinology, Molecular Endocrinology, Nature Genetics, Neuroscience Letters,
Oncotarget, PLOS ONE, Proceedings of the National Academy of Sciences, Regulatory
Peptides

SERVICE ON GRADUATE SCHOOL COMMITTEES:

Member, Rutgers Graduate School Nominating Committee, 2018-present
Member, Search Committee for Associate Dean of the Graduate School of Biomedical Sciences at
UMDNJ, 2008-2009

SERVICE ON HOSPITAL COMMITTEES: *None*

SERVICE TO THE COMMUNITY:

Invited speaker, National Multiple Sclerosis Society New Jersey Conference, 2010
Invited speaker, National Multiple Sclerosis Society Regional Conference, NJ, 2007
Invited speaker, Central PA Chapter MS Society, Team MS Rally, Hershey, PA, 2005
Invited speaker, MS Support Group of Palmyra, 2004
Invited speaker, National MS Society Tour of Champions, San Diego, CA, 2004
Invited speaker, Parson's E&C "Tournament for Life" Benefit, American Cancer Society, 2003
Invited speaker, Benefit Fundraiser for the PA Chapter of the Multiple Sclerosis Society, 2003
Invited speaker, American Cancer Society, Relay for Life, Kutztown, PA, 2002
Invited speaker, American Cancer Society, Making Strides Against Breast Cancer, Harrisburg, PA, 2002
Invited speaker, PA Chapter, National Multiple Sclerosis Society, Women with MS, 2002
Invited speaker, American Cancer Society, Relay for Life, Millersville, PA 2001

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

Doctoral Students:

Joseph Bulatowicz, 2017-present
Marisa Adhikusuma, 2016-present
Angeliki Evangelou, 2015-present
Luipa Khandker, 2015-present
Virginia Ciliento, 2014-2018
Aminat Saliu, 2013-2018
Shravanthi Chidambaram, 2013-2017 (Co-mentor)
Lauren McLane (Mursch), 2011-2016
Stacey Wahl (Cifelli), 2009-2014
Lauren Rota, 2008-2014
Amber Ziegler, 2007-2012 (Co-mentor)
Kedar Mahajan, (MD/PhD) 2007-2010
Zhaoyu Sun, 2005-2010
Jungsoo Min, 2004-2009
Anne Rowzee, 2002-2007
Bill Tyler, 2002-2007
Robert Romanelli, 2002-2006
Aimee Loladze, 2001-2006
Terra Frederick, 1999-2003
Malinda Stull, 1998-2003
Jennifer Ness, 1999-2002
Mike Allar, 1998-2002
Fengjun Jiang, 1995-2000
Steven O'Donnell, 1995-1999
Monica Richert, 1994-1998

Masters Research Thesis:

Daniele Scarola, 2011-2012
Lauren Rota, 2007-2008
Aimee Loladze, PSU/COM, 2004-2006

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

Alison Obr, 2014-
Isis Ornelas, 2014-2017
Lidia Albanito, 2012-2014
Marcus Shin, 2011-2013
Jungsoo Min, 2009-2010
William Tyler, 2007-2009
Anne Rowzee, 2007-2009
Sopio Simonishvili, 2004-2008
Sain Shushanov, 2004-2007
Robert Romanelli, 2006

Vaho Loladze, 2003-2004
Malinda Stull, 2003
Dawn Kardash-Richardson, 2000-2004
Jennifer Ness, 2002-2003

TEACHING RESPONSIBILITIES:

- A. Lectures or Course Directorships
New Jersey Medical School Medical Curriculum
Mind, Brain & Behavior, Laboratory Instruction, 2008-2013, 2017 3-6 hrs
- New Jersey Medical School Graduate Curriculum
Professional Skills – Grant Writing, 2016-present (26 hrs)
Developmental Biology & Stem Cells, 2012-present (2 hrs)
Cell and Developmental Neuroscience, Course Director, 2011-present (taught in alternate yrs)
Lectures: Neuroembryology (1 hr)
Cell Biology of Myelinating Glia (2 hrs)
Neural Induction & Neural Patterning (2 hrs)
Gliogenesis (2 hrs)
Demyelinating Diseases, 2011-present, 12 sessions/critical readings, 12 hrs
Cancer Biology, 2010-present,
Lectures: Growth Factors & Receptors – RTKs (1.5 hrs)
Growth Factors & Receptors – non-RTKs (1.5 hrs)
Intro to Biomedical Sciences, 2009- present
Lectures: Introduction to Scientific Method, 2 hrs
Transgenic Mice, 1 hr
Alternative Learning Module Co-Director, 2009-2012, 6 hrs
NJMS Graduate Core Course 2007-2009
Director, Molecular & Cellular Biology Module 5/Neurophysiology Part II, 6 hrs
Professional Skills, 2007-present, Co-Director, 6 lectures 20 hrs
Neuroscience Foundations, 2009-2010
1 lecture
Developmental Neuroscience, 2006, 2 lectures, 2 hrs
Penn State College of Medicine Graduate Curriculum
Genetic Approaches to Biomedical Problems, 2004
Molecular Biology, 2002-2005
Research Problems in Molecular Medicine, 2002-2003
Neurochemistry, 1999-2005
Biology of Neoplasia, 1997
Cellular and Molecular Neuroscience, 1995-2005
Molecular Genetics, 1994-2001
Advanced Topics in Neuroscience, 1995-2002
Advanced Topics in Cellular and Molecular Physiology, 1995
Penn State College of Medicine Medical Curriculum
Medical Histology, 1996-2004
Medical Embryology, 1994-1998 (Course Director, 1996-1998)
Penn State University Undergraduate Curriculum (University Park)
Neurobiology, 2000-2004
Cold Spring Harbor Laboratories
Molecular Probes of the Nervous System, 1989-1990
- B. Research Training
Post Doctoral Fellows: none
- Pre Doctoral Students:
Doctoral Student Committees:
Helena Mello, NJMS Immunology, Inflammation & Infectious Disease
Marc Brillantes, NJMS Immunology, Inflammation & Infectious Disease
Themistoklis Vasilopoulos, NJMS Molecular Biology, Genetics & Cancer

Kyle Saita, RWJMS Neuroscience Program
 Mariana Saboya, Cook College Endocrinology & Animal Biosciences
 Canan Kasikara, Molecular Biology, Genetics & Cancer, GSBS Newark, 2017
 Ishwarya Murali, UMDNJ Pharm/Phys Program, 2017
 Neetu Razdan, Molecular Biology, Genetics & Cancer, GSBS Newark, 2017
 Samir Tivari, Biomedical Sciences, GSBS Newark, 2016
 Pradeepa Ghokina, Rutgers Biology Program, 2013
 Kavya Reddy, Rutgers Biology Program, 2012
 Ru Chen, UMDNJ Interdisciplinary Program, 2010
 Homer Adams, UMDNJ Biomedical Sciences, 2010
 Jennifer Woodbury, UMDNJ MD/PhD Program, 2009
 Pedro Rodriguez, UMDNJ Biomedical Sciences, 2009
 Nan Li, PSU, Genetics, 2009
 Dhivyaa Alagappan, UMDNJ Biomedical Sciences, 2008
 Sarah Gramling, PSU, Integrative Biosciences, Molecular Toxicology, 2008
 Wei Jin, PSU, Genetics, 2008
 Michael Debies, PSU/COM Cell and Molecular Biology, 2005
 Ryan Felling, PSU/COM M.D./Ph.D., Neuroscience, 2005
 David Drubin, PSU Integrative Biosciences, Molecular Medicine, 2004
 Katie Streicher, PSU Integrative Biosciences, Immunobiology, 2004
 Melissa Cunningham, PSU/COM M.D./Ph.D. Cell and Molecular Biology, 2004
 Jason Heaney, PSU/COM Physiology, 2004
 Michael Romanko, PSU Integrative Biosciences, Molecular Medicine, 2004
 Robin Kilker, PSU/COM M.D./Ph.D., Cell and Molecular Biology, 2004
 Jelena Lazovic-Stojkovic, PSU Integrative Biosciences, Molecular Medicine, 2004
 Liqun Zhang, PSU Integrative Biosciences, Neuroscience, 2003
 Jia-Hai Lee, PSU/COM Biochemistry and Molecular Biology, 2003
 Tricia Hogan, PSU/COM Cell and Molecular Biology, 2003
 Geoffry Knudsen, PSU/COM Biochemistry, Microbiology and Molecular Biology, 2003
 Christine Brazel, PSU/COM Cell and Molecular Biology, 2003
 Akiva Mintz, PSU/COM M.D./Ph.D. Cell and Molecular Biology, 2002
 Christine Silvis, PSU/COM Cell and Molecular Physiology, 2002
 Vinayshree Kumar, PSU/COM Physiology, 2002
 Laura Palmer, PSU/COM Biochemistry and Molecular Biology, 2002
 Shelley Gestle, PSU/COM Biochemistry and Molecular Biology, 2001
 Brandy Furman, PSU/COM Neuroscience, 2001
 Ridwan Lin, PSU/COM M.D./Ph.D., Neuroscience, 2001
 Carolyn Pizzoli, PSU/COM M.D./Ph.D. Cell and Molecular Biology, 2001
 Phil Albrecht, PSU/COM Neuroscience, 2001
 Patricia Opresko, PSU/COM Biochemistry and Molecular Biology, 2000
 Tina Cairns, PSU/COM Cell and Molecular Biology, 2000
 H. Wayne Lambert, Cell Biology, University of North Carolina, 2000
 Khristy Manges, PSU/COM Neuroscience, 1999
 Scott Millhouse, PSU/COM Microbiology and Immunology, 1999
 Nadine Dejneka, PSU/COM Pharmacology, 1998
 Dan Campbell, PSU/COM Neuroscience, 1998
 Lisa Falls, PSU/COM Biochemistry and Molecular Biology, 1998

Masters Committees:

Cassandre Noel, UMDNJ Masters Program, 2012
 Emyln Capili, UMDNJ Masters Program, 2010
 Christopher Hansen, NJMS/UMDNJ Cell and Molecular Biology, 2008
 Christine Liberto, PSU/COM Cell and Molecular Biology, 2006
 Beverly Baptiste, PSU/COM Cell and Molecular Biology, 2004
 Christopher Freet, PSU/COM Anatomy, 2001
 Matthew Snyder, PSU/COM Anatomy, 2001
 Christopher J. Kuhlow, PSU/COM Anatomy, 2001

Stacy Hudgins, PSU/COM Anatomy, 1997

Undergraduate Research Training:

Tiffany Porras, Hendrick Hudson High School/SUNY Albany, 2010-present

Other Laboratory Trainees:

Nathan Swilling, 1994, Summer Whitaker Foundation Scholar
Andrew Wang, 1995, Summer Whitaker Foundation Scholar
Megan Williams, 1997, Summer Whitaker Foundation Scholar
Debra Thiel, 1998, Summer Whitaker Foundation Scholar
Justin Stahl, 1998, Medical Student Research Project
Beverly Baptiste, 1999, Rotation student, Cell and Molecular Biology
Terra Frederick, 1999, Rotation student, Molecular Medicine
Matt Silvis, 1999, Summer Medical Student Research
Aimee vanOlden, 2000, Rotation student, Molecular Medicine
Stephanie Stoehr, 2001, Rotation student, Molecular Medicine
Ryan Felling, 2001, Rotation student, M.D./Ph.D.
Bill Tyler, 2001, Rotation student, Cell and Molecular Biology
Pei-Chun Yeh, 2001, Rotation student, Genetics
Melissa Nowotarski, 2002, Rotation student, Cell and Molecular Biology
Anne Rowzee, 2002, Rotation student, Cell and Molecular Biology
Wei Jin, 2003, Rotation student, Genetics
Nu-Chu Liang, 2003, Rotation student, Neuroscience
Jessica Rudy-Heimlick, 2003, Rotation student, Molecular Medicine
Yan Yan, 2004, Rotation student, Genetics
Jungsoo Min, 2004, Rotation student, Molecular Medicine
Krista Buono, 2006, Rotation Student, NJMS/UMDNJ Biomedical Sciences
Kedar Mahajan, 2006, 2007, Rotation Student, NJMS/UMDNJ MD/PhD
Stacey Cifelli, 2008, Rotation Student, NJMS/UMDNJ Integrated Neurosciences
Mark Nicolau, 2008-2009, Masters Student/MD Student, NJMS/UMDNJ
Douglas Clements, 2009, Masters Student, NJMS/UMDNJ
Lauren Mursch, 2010, Rotation Student, NJMS/UMDNJ, Neuroscience Program
Jason Domegauer, 2011, Rotation Student, NJMS/UMDNJ, MD/PhD program
Saurav De, 2012, Rotation Student, NJMS/UMDNJ, MBGC PhD track
Ed Beninati, 2012, Spring/Summer Research, NJMS/UMDNJ, MD program
Aminat Saliu, 2013, Rotation Student, NJMS/UMDNJ, CBNP PhD track
Virginia Ciliento, 2014, Rotation Student, NJMS/Rutgers, MBGC PhD track
Luipa Khandker, 2014, Rotation Student, NJMS/Rutgers, CBNP PhD track
Angeliki Evangelou, 2015, Rotation Student, NJMS/Rutgers, CBNP PhD track
Stephen Lu, 2016, NJMS Master's Biomedical Science, Rotation
Albert Bargoud, 2016, Summer Research Cancer Program, NJMS MD program
Joseph Bulatowicz, 2017, Rotation Student, NJMS/Rutgers, MBGC PhD track
Joshua Kim, 2017, NJMS Summer Research Program
Stephanie Smith, 2017-2018, NJMS Master's Biomedical Science, Rotation

CLINICAL RESPONSIBILITIES: None

GRANT SUPPORT:

A. Principal Investigator

NIH R37 NS082203-01 (Wood, Macklin, dual PIs)
The role of mTOR signaling in oligodendrocyte differentiation and CNS myelination
09/30/2017-07/31/2024
Direct Costs (Rutgers): \$1,249,940
Total Costs (Rutgers): \$1,896,925

NIH/NCI 1 R01 CA204312-01 (Wood) Pathways that regulate basal and metastatic phenotypes in triple negative breast cancers
01/01/2017-12/31/2021

Direct Costs: \$1,771,101
Total Costs: \$2,564,936

Rutgers Brain Health Institute Pilot Grant (Levison, Wood, Dreyfus, Dhib-Jalbut)
Delineating oligodendrocyte progenitor subtypes and their roles in CNS remyelination
11/01/2016-10/31/2017
Direct Costs: \$40,000
Total Costs: \$40,000

NMSS RG 5371-A-4 (Wood)
mTOR Signaling Targets and Pathway Intersections in Oligodendrocyte Differentiation and Myelination
04/01/2015-03/31/2018
Direct Costs: \$642,725
Total Costs: \$706,997

Rutgers University Neuro Engineering Group (RUNEG) (Shreiber, Wood, Comoletti)
An axon free, in vitro model of central nervous system myelination
06/01/2017-05/31/2018
Direct Costs: \$25,000
Total Costs: \$25,000

NIH R01 NS082203-05 (Wood, Macklin, dual PIs)
The role of mTOR signaling in oligodendrocyte differentiation and CNS myelination
09/30/2012-05/31/2017 NCE 05/31/2018
Direct Costs: (Rutgers BMHS): \$1,029,555
Total Costs: \$1,626,695

NIH R21 NS076874-01A1 (Wood, Levison Dual PIs)
Insulin Receptor in Neural Stem Cells
09/01/2013 to 08/31/2015 NCE 02/28/2017
Direct Costs: \$275,000
Total Costs: \$437,248

NJ Health Foundation Signature Initiative Grant (Wood, Dreyfus Dual PIs)
Identifying pathways that promote remyelination from endogenous progenitors
01/01/2015-12/31/2015 NCE 06/30/2016
Direct Costs: \$100,000
Total Costs: \$100,000

Diversity Supplement to
NIH 5R01NS082203-04 (Wood; Macklin dual PIs) The Role of mTOR Signaling in Oligodendrocyte Differentiation and CNS Myelination, 07/01/2014-06/30/2016
Direct Costs (Rutgers): \$35,448/yr

NMSS Daniel Houghton Senior Faculty Award (Wood)
Activation of mTOR Signaling in Remyelination in Human MS Lesions and EAE
09/01/2014-05/31/2015 NCE to 12/31/2015
Direct Costs: \$83,546
Total Costs: \$83,546

NMSS RG 4015A2/2
The mTOR Pathway: A Master Regulator of Oligodendrocyte Differentiation
11/01/2009-10/31/2013
Direct Costs: \$793,197
Total Costs: \$872,517

NIH NIDDK RO1 DK060612
IGF and IGF Receptor Function in Mammary Development
09/30/2007-07/31/2012 NCE to 07/31/2014
Direct Costs: \$1,061,880
Total Costs: \$1,628,000

DOD TS093091
TSC Regulates Oligodendroglial Differentiation and Myelination in the CNS
09/30/2010-09/29/2012
Direct Costs: \$98,727
Total Costs: \$154,014

UMDNJ Translational Mini-Grant
Assay for Measurement of IGF Type 1 Receptor and Insulin Receptor Expression in Human
Cells and Tissues
12/01/2009-11/30/2010
Direct Costs: \$9,999
Total Costs: \$9,999

UMDNJ Foundation Collaborative High Impact Award
IGF Signaling Promotes Bypass of Cellular Senescence during Early Stage of Breast Cancer
07/01/2009-06/30/2010 No cost extension to 06/30/2011
Direct Costs: \$34,977
Total Costs: \$34,977

NIH NINDS RO1 NS050742-03
Mechanisms of Death and Survival in Oligodendroglia
09/23/2005-6/30/2010
Direct Costs: \$1,074,575
Total Costs: \$1,670,965

NIH NINDS RO1 NS37560-08
Oligodendrocyte Generation: A Multi-Factorial Approach
04/01/2003-02/28/2007
Direct Costs: \$855,000
Total Costs: \$1,319,093

NIH/R21CA120850-01
Nestin: A Putative Marker of a Mammary Stem and Progenitor Cell Lineage
04/01/2006-03/31/2008
Direct Costs: \$209,000
Total Costs: \$324,995

NIH NIDDK RO1 DK0606-12
IGF and IGF Receptor Function in Mammary Development
03/01/2002-01/31/2006
Direct Costs: \$792,003
Total Costs: \$1,112,765

Pennsylvania Tobacco Settlement Fund
Manipulation of Signaling Pathways for the Treatment of Breast Cancer (J.Bond)
Project 2 (Wood): Receptor-Mediated Oncogenic Signaling in Mammary Epithelium:
Downstream Interactions and the Role of the mTOR-Mediated Signaling Pathway
07/01/04-06/30/05
Direct Costs: \$100,200; Project 2: \$20,000
Total Costs: \$150,000; Project 2: \$29,940

Life Sciences Greenhouse of Central Pennsylvania
Merging Modeling & Empirical Approaches: Identification of IGF-I Coordinated
Signaling Pathways
08/01/2003-07/31/2004
Direct Costs: \$83,333
Total Costs: \$100,000

Pennsylvania Tobacco Settlement Fund 02-173
Manipulation of Signaling Pathways for the Treatment of Breast Cancer (Smith)
Project 2 (Wood): Evaluation of Signaling and Translational Control Mechanisms
in IGF Regulation of Breast Cancer Proliferation and Survival
06/01/2003-05/31/2006
Direct Costs: \$233,801; Project 2: \$33,400
Total Costs: \$350,000; Project 2: \$50,000

Susan G. Komen Breast Cancer Foundation PDF 0100718
Insulin-like Growth Factor Receptor Signaling in Breast Epithelial Cell
Proliferation
10/01/2001-09/30/2004
Direct Costs: \$105,000
Total Costs: \$105,000

NIH 1R13 CA100040-01
Insulin-like Growth Factors in Physiology and Disease (Gordon Research
Conference)
03/09/2003-01/31/2004
Direct Costs: \$9,000
Total Costs: \$9,000

U.S. Army Medical Research & Materiel Command, Career Development Award
DAMD 17-99-1-9296
The Insulin-Like Growth Factors and Receptor in Hormone-Mediated Breast
Growth and Tumorigenesis
05/01/1999-05/31/2003
Direct Costs: \$149,205
Total Costs: \$207,127

NIH NINDS RO1 NS37560-04
Oligodendrocyte Generation: A Multi-Factorial Approach
12/20/1998-03/31/2003
Direct Costs: \$515,193
Total Costs: \$710,109

Research Planning Grant American Cancer Society RPG-99-162-01-CNE
Insulin-like Growth Factors in Breast Epithelial Proliferation
07/01/1999-06/30/2002
Direct Costs: \$317,365
Total Costs: \$395,000

National Multiple Sclerosis Society Pilot Grant MS PPO558
CNTF Regulation of Peptide Growth Factors in Oligodendrocytes
08/01/1997-07/31/1998
Direct Costs: \$25,000
Total Costs: \$27,500

NIH NIDDK R29 DK 48103-05
Functional Studies of IGF Binding Protein-1

01/01/1995-12/31/1999
Direct Costs: \$349,948
Total Costs: \$530,430

NSF Research Planning Grant IBN-9408860
Functional Studies of the Insulin-like Growth Factor Binding Protein-2 in CNS
Neurogenesis
09/01/1994-08/31/1996
Direct Costs: \$16,200
Total Costs: \$18,000

Dean's Feasibility Grant, PSU/M.S. Hershey Medical Center
In vivo Studies of the Insulin-like Growth Factor Binding Protein-2 in Mammary
Tumorigenesis
06/01/1994-05/31/1995
Direct Costs: \$24,652
Total Costs: \$24,652

B. Co-Investigator

NIH/NINDS F31 (M. Jeffries-PI; Wood, mentor)
mTOR Signaling in Oligodendrocyte Vulnerability to Demyelination and Efficiency of
Remyelination in the Brain
07/01/2018-06/30/2020
Direct Costs: \$88,088
Total Costs: \$88,088

NJCCR #DFHS18PPC007 (J. Bulatowicz-PI; Wood, mentor)
Predoctoral Fellowship, New Jersey Commission on Cancer Research
Investigating a Link between Cellular Stress and Metastatic Potential in Response to Loss of
IGF1R in Breast Tumor Cells
1/01/18-12/31/19
Direct Costs: \$50,000
Total Costs: \$50,000

American Cancer Society 130455-PF-17-244-01-CSM (A. Obr; Wood, mentor)
Postdoctoral Fellowship
Mechanisms for Metastasis due to Reduced IGF Signaling in Breast Cancer
01/01/18-12/31/19
Direct Costs: \$111,500
Total Costs: \$111,500

NJCCR #DFHS15PPC039 (A. Obr; Wood, mentor)
Postdoctoral Fellowship, New Jersey Commission on Cancer Research
Determining the Role of Insulin/IGF Signaling in Inflammation and Metastasis of Basal-like
Breast Cancer
01/01/2015-12/31/2016
Direct Costs: \$100,000
Total Costs: \$100,000

NIH/NCI RO1 CA128799-05 (LeRoith; Wood Investigator)
Mechanisms for Increased Breast Cancer Risk in Type 2 Diabetes
04/01/2008-03/30/2013 NCE to 2014
Direct Costs: \$19,231 (subcontract)
Total Costs: \$30,000

NJCCR #DFHS12CRP011 (M.Shin/L.Albanito/L.Rota); Wood, mentor)

Postdoctoral Fellowship, New Jersey Commission on Cancer Research
IGF Signaling Inhibits Oncogene Mediated Breast Tumors
07/01/12-06/30/14; NCE to 12/31/14
Direct Costs: \$91,000
Total Costs: \$91,000

NIH F31 NS076187-01A1 (S. Cifelli; Wood, Mentor)
The Role of mTORC2 in Oligodendrocyte Differentiation
07/01/2012 – 06/30/2014
Direct Costs: \$60,726
Total Costs: \$60,726

New Jersey Commission on Spinal Cord Research Fellowship Award (K.
Mahajan; Wood, Mentor)
IGF-1 Mediated Oligodendrocyte Progenitor Survival in SCI
06/15/2008-06/30/2010
Direct Costs: \$60,000
Total Costs: \$60,000

2RO1 MH59950 (S. Levison)
Neural Stem Cell Responses to Perinatal Brain Damage
05/01/04-06/30/09
Direct Costs: \$980,000
Total Costs: \$1,467,060

Pennsylvania Tobacco Settlement Fund 4100020604 (K.Cheng)
Function of Rad51 and Mats in Cell Division and Cancer
05/01/2004-04/30/2006
Direct Costs: \$70,681
Total Costs: \$87,421

NIH NIGMS 1T32 GM 064332 (W. Souba)
Training Program in Trauma and Organ Injury
07/01/2002-06/30/2007
Direct Costs: \$866,772
Total Costs: \$932,631

NIH 1F31 NS043080-02 (T. Frederick; Wood, Mentor)
Cell Cycle Regulation in Oligodendrocyte Progenitors
01/01/2002-12/31/2003
Direct Costs: \$43,346
Total Costs: \$43,346

Hershey Medical Center Dean's Feasibility Grant (M.Verderame)
Targeted Overexpression of ODC and the ODC inhibitor Antizyme-1
07/01/2002-06/30/2003
Direct Costs: \$24,111
Total Costs: \$24,111

Commonwealth of Pennsylvania (H.Isom)
Cancer Control Program
07/01/2001-06/30/2003
Direct Costs: \$1,200,000
Total Costs: \$1,200,000

Hershey Medical Center Cancer Center (S.Bronson)
Investigation of Cell Survival Pathways and Mechanisms in Breast Epithelial

Cells
09/01/2001-08/31/2002
Direct Costs: \$33,635
Total Costs: \$33,635

NIH NCI F31 CA 83174 (M.Stull; Wood, Mentor)
IGF Receptor in Mammary Growth and Tumorigenesis
08/01/1999-07/31/2003
Direct Costs: \$67,252
Total Costs: \$67,252

American Heart Association, Pennsylvania 0010054U (J.Ness; Wood, Mentor)
Mechanisms of Oligodendrocyte Cell Death and Trophic Factor Rescue in
Periventricular White Matter Damage
07/01/2000-09/30/2002
Direct Costs: \$32,000
Total Costs: \$32,000

NIH NICHD 2PO1 HD 030704 (R. Vannucci)
Perinatal Hypoxic-Ischemic Brain Damage
Project 3 (S.Vannucci): Neuroprotective Mechanisms
07/01/1999-12/31/2004
Direct Costs: \$6,093,013; Project 3: \$564,453
Total Costs: \$9,331,353; Project 3: \$780,035

NIH NCI RO1 CA 87728 (D. Welch)
Molecular Regulation of Breast Cancer Metastasis
07/01/2000-10/31/2002
Direct Costs: \$607,500
Total Costs: \$940,902

Hershey Medical Center Cancer Center (M.Stull; Wood, Mentor)
IGF Receptor in Mammary Growth and Tumorigenesis
05/01/1999-04/30/2000
Direct Costs: \$5,000
Total Costs: \$5,000

American Heart Association, Pennsylvania Affiliate (S.O'Donnell; Wood,
Mentor)
IGF Binding Protein Modulation of IGF Neurotrophic Actions in
Hypoxic/Ischemic Stroke
07/01/1997 - 06/30/1999
Direct Costs: \$25,000
Total Costs: \$25,000

NIH NICHD R01 HD24565 (J. Hammond)
Ovarian Growth Factors
12/01/1996-11/30/2000
Direct Costs: \$832,011
Total Costs: \$1,207,573

Juvenile Diabetes Foundation International (S. Vannucci)
GLUT4 in Mouse Brain: Function, Activity and Effect of Diabetes
09/01/1996-08/31/1997
Direct Costs: \$90,532
Total Costs: \$99,585

C. Pending

NMSS RG170728557 (Wood, Dreyfus, co-PIs)
Cooperative Functions of mTOR and TrkB/Erk Signaling in Remyelination
10/01/2018-09/30/2021
Direct Costs: \$716,925
Total Costs: \$788,618

PUBLICATIONS:

- A. Refereed Original Article in Journal
1. **Wood, T.L.**, Frantz, G.D., Menkes, J.H. and Tobin, A.J. Regional distribution of messenger RNAs in postmortem human brain. *Journal of Neuroscience Research* 16:311-324, 1986.
 2. **Wood, T.L.**, Kobayashi, Y., Frantz, G., Varghese, S., Christakos, S. and Tobin, A.J. Molecular cloning of mammalian 28,000 M_r vitamin D-dependent calcium binding protein (Calbindin D_{28K}): Expression of Calbindin D_{28K} RNAs in rodent brain and kidney. *DNA* 7:585-593, 1988.
 3. **Wood, T.L.**, Brown, A.L., Rechler, M.M. and Pintar, J.E. The expression pattern of an insulin-like growth factor (IGF)-binding protein gene is distinct from IGF-II in the midgestational rat embryo. *Molecular Endocrinology* 4:1257-1263, 1990.
 4. Olchovsky, D., Bruno, J., **Wood, T.L.**, Gelato, M., Leidy, J.W., Gilbert, J.M.Jr. and Berelowitz, M. Altered pituitary growth hormone regulation in streptozotocin-diabetic rats: a combined hormone-defect of hypothalamic somatostatin and growth hormone-releasing factor. *Endocrinology* 126:53-61, 1990.
 5. **Wood, T.L.**, Berelowitz, M., Gelato, M., Roberts, C., Jr., LeRoith, D., Millard, W. and McKelvy, J.F. Hormonal regulation of rat hypothalamic neuropeptide mRNAs: Effect of hypophysectomy and hormone replacement on GRF, SRIF and the insulin-like growth factors. *Neuroendocrinology* 53: 298-305, 1991.
 6. **Wood, T.L.**, Streck, R.D. and Pintar, J.E. Expression of the IGFBP-2 gene in post-implantation rat embryos. *Development* 114: 59-66, 1992.
 7. Streck, R.D., **Wood, T.L.**, Hsu, M.-S. and Pintar, J.E. The transcript for insulin-like growth factor binding protein-2 is extremely abundant in the apical ectodermal ridge of rat embryonic limbs. *Developmental Biology* 151:586-596, 1992.
 8. **Wood, T.L.**, Rogler, L., Streck, R.D., Cerro, J., Green, B., Grewal, A. and Pintar, J.E. Targeted disruption of the IGFBP-2 gene. *Growth Regulation* 3:3-6, 1993.
 9. Cerro, J., Grewal, A., **Wood, T.L.** and Pintar, J.E. Tissue-specific expression of the insulin-like growth factor binding protein (IGFBP) mRNAs in mouse and rat development. *Regulatory Peptides* 48:189-198, 1993.
 10. Green, B.N., Jones, S.B., Streck, R.D., **Wood, T.L.**, Rotwein, P. and Pintar, J.E. Distinct expression patterns of insulin-like growth factor binding proteins 2 and 5 during fetal and post-natal development. *Endocrinology* 134:954-962, 1994.
 11. Fliegner, K.H., Kaplan, M.P., **Wood, T.L.**, Pintar, J.E. and Liem, R.K.H. Expression of the gene for the neuronal intermediate filament protein α -internexin coincides with the onset of neuronal differentiation in the developing rat nervous system. *Journal of Comparative Neurology* 342:161-173, 1994.

12. **Wood, T.L.**, O'Donnell, S.L. and Levison, S.W. Cytokines regulate IGF binding proteins in the CNS. *Progress in Growth Factor Research* 6(2-4):181-187, 1995.
13. LeRoith, D., Neuenschwander, S., **Wood, T.L.** and Henninghausen, L. Insulin-like growth factor-1 and insulin-like growth factor binding protein-3 inhibit involution of the mammary gland following lactation: studies in transgenic mice. *Progress in Growth Factor Research* 6(2-4):433-436, 1995.
14. Levison, S.W., Ducceschi, M.H., Young, G.M., and **Wood, T.L.** Acute exposure to CNTF *in vivo* induces multiple components of reactive gliosis. *Experimental Neurology* 141(2):256-268, 1996.
15. Pintar, J.E., Cerro, J.A. and **Wood, T.L.** Genetic approaches to the function of insulin-like growth factor-binding proteins during rodent development. *Hormone Research* 45(3-5):172-177, 1996.
16. Neuenschwander, S., Schwartz, A., **Wood, T.L.**, Roberts, Jr., C.T., Henninghausen, L., and LeRoith, D. Involution of the lactating mammary gland is inhibited by the IGF system in a transgenic mouse model. *Journal of Clinical Investigation* 97(10):2225-2232, 1996.
17. Hernández-Sánchez, C., **Wood, T.L.** and LeRoith, D. Developmental and tissue specific sulfonylurea receptor gene expression. *Endocrinology* 138:705-711, 1997.
18. Butler, A.A., Blakesley, V.A., Poulaki, V., Tsokos, M., **Wood, T.L.** and LeRoith, D. Stimulation of murine fibrosarcoma growth by recombinant human insulin-like growth factor-I (IGF-I) treatment in nude mice. Dependency on IGF-I dose and IGF-I receptor number. *Cancer Research* 58:3021-3027, 1998.
19. Wandji, S.-A., **Wood, T.L.**, Crawford, J.L., Levison, S.W., and Hammond, J.M. Expression of mouse ovarian IGF system components during follicular development and atresia. *Endocrinology* 139:5205-5214, 1998.
20. Richert, M.M. and **Wood, T.L.** The insulin-like growth factors and IGF type I receptor during postnatal growth of the murine mammary gland: Sites of mRNA expression and potential functions. *Endocrinology* 140:454-461, 1999.
21. Jiang, F., Levison, S.W. and **Wood, T.L.** Ciliary neurotrophic factor induces expression of the IGF type I receptor and FGF receptor 1 mRNAs in adult rat brain oligodendrocytes. *Journal of Neuroscience Research* 57:447-457, 1999.
22. **Wood, T.L.**, Rogler, L.E., Schuller, A., Czick, M. and Pintar, J.E. Selective alterations in organ sizes in mice with a targeted disruption of the IGF binding protein-2 gene. *Molecular Endocrinology* 14:1472-1482, 2000.
23. Jiang, F., Frederick, T.J. and **Wood, T.L.** IGF-I and FGF-2 synergize to stimulate oligodendrocyte progenitors to enter the cell cycle. *Developmental Biology* 232:414-423, 2001.
24. Ness, J.K., Romanko, M.J., Rothstein, R.P., **Wood, T.L.** and Levison, S.W. Perinatal hypoxia/ischemia induces apoptotic and excitotoxic death of periventricular white matter oligodendrocyte progenitors. *Developmental Neuroscience* 23:203-208, 2001.
25. Vannucci, S.J., Willing, L.B., Goto, S., Alkayed, N.J., Brucklacher, R.M., **Wood, T.L.**, Towfighi, J., Hurn, P.D. and Simpson, I.A. (2001) Experimental stroke in the female diabetic, *db/db*, mouse. *Journal of Cerebral Blood Flow and Metabolism* 21:52-60, 2001.

26. Ness, J.K., Mitchell, N.E. and **Wood, T.L.** IGF-I and NT-3 signaling pathways in developing oligodendrocytes: Differential regulation and activation of receptors and the downstream effector Akt. *Developmental Neuroscience* 24:437-445, 2002.
27. Stull, M.A., Richert, M.M., Loladze, A.V. and **Wood, T.L.** Requirement for insulin-like growth factor-I in epidermal growth factor-mediated cell cycle progression of mammary epithelial cells. *Endocrinology* 143:1872-1879, 2002.
28. O'Donnell, S.L., Vannucci, S.J., Frederick, T.J., Krady, K. and **Wood, T.L.** IGF-I and microglial/macrophage proliferation in the ischemic mouse brain. *GLIA* 39:85-97, 2002.
29. Ness, J.K. and **Wood, T.L.** IGF-I but not NT-3 sustains Akt activation and provides long-term protection of immature oligodendrocytes from L-glutamate mediated apoptosis. *Molecular and Cellular Neuroscience* 20:476-488, 2002.
30. Grimm, S.L., Teagroves, T.N., Kabotyanski, E.B., Hovey, R.C., Vonderhaar, B.K., Lydon, J.P., Miyoshi, K., Hennighausen, L., Ormandy, C.J., Lee, A.V., Stull, M.A., **Wood, T.L.** and Rosen, J.M. Disruption of steroid and prolactin receptor patterning in the mammary gland correlates with a block in lobuloalveolar development. *Molecular Endocrinology* 16:2675-2691, 2002.
31. Thompson, K., Menzies, S., Muckenthaler, M., Torti, F.M., **Wood, T.**, Torti, S.V., Hentze, M.W. Beard, J. and Connor, J. Mouse brains deficient in H-ferritin have normal iron concentration but a protein profile of iron deficiency and increased evidence of oxidative stress. *Journal of Neuroscience Research* 71:46-63, 2003.
32. Allar, M.A. and **Wood, T.L.** Expression of the insulin-like growth factor binding proteins during postnatal development of murine mammary glands. *Endocrinology* 145:2467-2477, 2004.
33. Ness, J.K., Scaduto, R. and **Wood, T.L.** IGF-I prevents glutamate-mediated bax translocation and cytochrome c release in pro-oligodendroblasts. *GLIA* 46:183-194, 2004.
34. Frederick, T.J. and **Wood, T.L.** IGF-I and FGF-2 coordinately enhance cyclin D1 and cyclin E-cdk2 association and activity to promote G₁ progression in oligodendrocyte progenitor cells. *Molecular and Cellular Neuroscience* 25:480-492, 2004.
35. Heron-Milhavet, L., Xue-Jun, Y., Vannucci, S.J., **Wood, T.L.**, Willing, L.B., Stannard, B., Hernandez-Sanchez, C., Mobbs, C., Virsolvy, A. and LeRoith, D. Protection against hypoxic-ischemic injury in transgenic mice overexpressing KIR6.2 channel pore in forebrain. *Molecular and Cellular Neuroscience* 25:585-593, 2004.
36. Loladze, A.V., Stull, M.A., Rowzee, A.M., DeMarco, J., Lantry, J.H., III, Rosen, C., LeRoith, D., Wagner, K.-U., Hennighausen, Rosen, C.J. and **Wood, T.L.** Epithelial-specific and stage-specific functions of IGF-I during postnatal mammary development. *Endocrinology* 147:5412-5423, 2006.
37. Romanelli, R.J., LeBeau, A.P., Hochberg, A. and **Wood T.L.** IGF type I receptor internalization and recycling mediate the sustained phosphorylation of Akt. *Journal of Biological Chemistry* 282:22513-22524, 2007.
38. Frederick, T.J., Mitchell, N.E. and **Wood, T.L.** Synergistic induction of cyclin D1 in oligodendrocyte progenitor cells by IGF-I and FGF-2 requires differential stimulation of multiple signaling pathways. *GLIA* 55:1011-1022, 2007.

39. **Wood, T.L.**, Loladze, V., Altieri, S., Gangoli, N., Levison, S.W., Brywe, K.G., Mallard, C., and Hagberg, H. Delayed IGF-I administration rescues oligodendrocyte progenitors from glutamate induced cell death and hypoxic-ischemic brain damage. *Developmental Neuroscience* 29:302-310, 2007.
40. Ning, Y., Hoang, B., Schuller, A.G.P., Hsu, P., **Wood, T.L.** and Pintar, J.E. Delayed mammary gland involution in mice with mutation of insulin-like growth factor binding protein 5. *Endocrinology* 148:2138-2147, 2007.
41. DeMambro, V.E., Clemmons, D.R., Horton, L.G., Bouxsein, M.L., **Wood, T.L.**, Beamer, W.G., Canalis, E. and Rosen, C.J. Gender-specific changes in bone turnover and skeletal architecture in IGFBP-2 null mice. *Endocrinology* 149:2051-2061, 2008.
42. Rowzee, A.M., Ludwig, D.L. and **Wood, T.L.** Insulin-like growth factor type I receptor and insulin receptor isoform expression and signaling in mammary epithelial cells. *Endocrinology*, 150:3611-3619, 2009.
43. Tyler, W.A., Gangoli, N., Gokina, P., Kim, H.A., Covey, M., Levison, S.W. and **Wood, T.L.** Activation of the mammalian target of rapamycin (mTOR) is essential for oligodendrocyte differentiation. *Journal of Neuroscience* 29:6367-6378, 2009.
44. Romanelli, R.J.*, Mahajan, K. R.*, Fulmer, C. G. and **Wood, T.L.** IGF-I stimulated Akt phosphorylation and oligodendrocyte progenitor cell survival requires cholesterol-enriched membranes. *Journal of Neuroscience Research* 87:3369-3377, 2009. *authors contributed equally.
45. Cannata, D., Lann, D., Wu, Y. Elis, S., Sun, H., Yakar, S., Lazzarino, D.A., **Wood, T.L.** and LeRoith, D. (2010) Elevated circulating IGF-1 promotes mammary gland development and proliferation. *Endocrinology* 151:5751-5761, 2010.
46. Novosyadlyy, R., Lann, D.E., Vjayakumar, A., Rowzee, A., Lazzarino, D.A., Fierz, Y., Carboni, J.M., Gottardis, M.M., Pennisi, P.A., Molinolo, A.A., Kurshan, N., Wilson, M., Santopietro, S., Yakar, S., **Wood, T.L.**, LeRoith, D. Insulin-mediated acceleration of breast cancer development and progression in a non-obese model of type 2 diabetes. *Cancer Research* 70:741-751, 2010.
47. Tyler, W.A., Jain, M. Cifelli, S.E., Li, H. and **Wood, T.L.** Proteomic analysis and identification of novel targets regulated by the mTOR pathway during oligodendrocyte differentiation. *GLIA* 59:1754-1769, 2011.
48. Sun, Z, Shushanov, S., LeRoith, D. and **Wood, T.L.** Decreased IGF type 1 receptor signaling in mammary epithelium during pregnancy leads to reduced proliferation, alveolar differentiation and expression of insulin receptor substrate (IRS)-1 and IRS-2. *Endocrinology* 152:3233-3245, 2011.
49. Ziegler, A.N., Schneider, J.S., Qin, M., Tyler, W.A., Pintar, J.E., Fraidenraich, D., ***Wood, T.L.** and ***Levison, S.W.** (2012) IGF-II promotes stemness of neural restricted precursors. *Stem Cells* 30:1265-1276. *co-senior authors.
50. Min, J. and **Wood, T.L.** (2012) IGF-1 enhances S and G2/M phase progression in coordination with FGF-2 in oligodendrocyte progenitor cells. *GLIA* 60:1684-1695.
51. Simonishvili, S., Jain, M., Li, H., Levison, S.W. and **Wood, T.L.** (2013) Mechanisms for Bax-mediated death of oligodendrocyte progenitors in glutamate excitotoxicity and after perinatal hypoxia-ischemia. *ASN-Neuro*, Dec 23;5(5):e00131.

52. Ziegler, A.N., Chidambaram, S., Forbes, B.E., **Wood, T.L.*** and Levison, S.W.* (2014) IGF-II and IGF-II analogs with enhanced insulin receptor-A binding affinity promote neural stem cell expansion. *Journal of Biological Chemistry* 289:4626-4633. *co-senior authors.
53. Kichov, A., Rousset, C.I., Baburamani, A.A., Levison, S.W., **Wood, T.L.**, Gressens, P., Thornton, C. and Hagberg, H. (2014) TNF-related apoptosis-inducing ligand (TRAIL) signaling and cell death in the immature central nervous system after hypoxia-ischemia and inflammation. *Journal of Biological Chemistry* 289:9430-9439.
54. Wahl, S.E., McLane, L.E., Bercury, K.K., Macklin, W.B. and **Wood, T.L.** (2014) Mammalian target of rapamycin promotes oligodendrocyte differentiation, initiation and extent of CNS myelination. *Journal of Neuroscience* 34:4453-4465.
55. Bercury, K.K., Dai, J., Sachs, H.H., Ahrendsen, J.T., **Wood, T.L.** and Macklin, W.B. (2014) Conditional ablation of raptor or rictor has differential impacts on oligodendrocyte differentiation and CNS myelination. *Journal of Neuroscience* 34:4466-4480.
56. Alagappan, D., Ziegler, A.N., Chidambaram, S., Min, J., **Wood, T.L.*** and Levison, S.W.* (2014) Insulin-like growth factor receptor signaling is necessary for epidermal growth factor mediated proliferation of SVZ neural precursors following neonatal hypoxia-ischemia. *Frontiers of Neurology* 5:79. *co-senior authors
57. Rota, L.M., Albanito, L., Shin, M.E., Goyeneche, C.L., Shushanov, S., Gallagher, E.J., LeRoith, D., Lazzarino, D.A.* and **Wood, T.L.*** (2014) Inhibiting insulin-like growth factor receptor in mammary epithelium accelerates Wnt1-mediated tumorigenesis, canonical Wnt signaling and IGF-II/insulin receptor-A expression. *Cancer Research* 74(19): 1-12. *co-senior authors
58. Flannery, C.A., Rowzee, A.M., Choe, G., Saleh, F., Taylor, H.S. and **Wood, T.L.** (2016) Development of a quantitative PCR assay for detection of human insulin-like growth factor receptor and insulin receptor isoforms. *Endocrinology* 157:1702-8.
59. Flannery, C.A., Saleh, F.L., Choe, G.H., Selen, D.J., Kodaman, P.H., Kliman, H.J., **Wood, T.L.** and Taylor, H.S. (2016) Differential expression of IR-A, IR-B and IGF-1R in endometrial physiology and distinct signature in adenocarcinoma. *Journal of Clinical Endocrinology and Metabolism* 101:2883-91.
60. Jiang, M., Liu, L., He, X., Wang, H., Lin, W., Wang, H., Yoon, S.O., **Wood, T.L.** and Lu, Q.R. (2016) Regulation of PERK-eIF2 α signaling by tuberous sclerosis complex-1 controls homeostasis and survival of myelinating oligodendrocytes. *Nature Communications* 7:12185.
61. Acosta, D., Bagchi, S., Broin, P.O., Hollern, D., Racedo, S.E., Morrow, B., Sellers, R.S., Grealley, J.M., Golden, A., Andrechek, E., **Wood, T.L.** and Montagna, C. (2016) LPA receptor activity is basal specific and coincident with early pregnancy and involution during mammary gland postnatal development. *Scientific Reports* 6:35810.
62. McLane, L.E., Bourne, J.N., Evangelou, A.V., Khandker, L., Macklin, W.B. and **Wood, T.L.** (2017) Loss of tuberous sclerosis complex 1 in adult oligodendrocyte progenitor cells enhances axon remyelination and increases myelin thickness after a focal demyelination. *Journal of Neuroscience* 37:7534-7546.
63. Kumar, S., Davra, V., Obr, A., Geng, K., **Wood, T.L.** and Birge, R.B. (2017) Crk oncogene promotes PD-L1 expression and immune evasion in a triple-negative murine model of breast cancer. *Oncimmunology* 7(1):e1376155.

- B. Books, Monographs and Chapters
1. Christakos, S., **Wood, T.L.**, Varghese, S. and Tobin A.J. Molecular cloning and regulation of the mammalian 28,000 M_r vitamin D-dependent calcium binding protein (Calbindin D_{28K}). In A.W. Norman, T.C. Vanaman and A.R. Means (Eds.), *Calcium Binding Proteins in Health and Disease* (pp. 276-284). New York: Academic Press; 1987.
 2. **Wood, T.L.**, Berelowitz, M. and McKelvy, J.F. Hormonal feedback regulation of brain IGF-I and IGF-II gene expression. In D. LeRoith and M.K. Raizada (Eds.), *Molecular and Cellular Biology of Insulin-like Growth Factors and their Receptors* (pp. 209-217). New York: Plenum Press; 1989.
 3. Pintar, J.E., **Wood, T.L.**, Streck, R.D., Havton, L., Rogler, L. and Hsu, M.-S. Expression of IGF-II, the IGF-II/mannose-6-phosphate receptor and IGFBP-2 during rat embryogenesis. In M.K. Raizada and D. LeRoith (Eds.), *Molecular Biology and Physiology of Insulin and Insulin-Like Growth Factors* (pp. 325-333). New York: Plenum Press; 1991.
 4. Richert, M.M. and **Wood, T.L.** Expression and regulation of insulin-like growth factors and their binding proteins in the normal breast. In A. Manni (Ed.), *Contemporary Endocrinology: Endocrinology of Breast Cancer* (pp. 39-52). Totowa, New Jersey: Humana Press; 1999.
 5. **Wood, T.L.**, Stull, M.A., Kardash-Richardson, D. and Allar, M. The insulin-like growth factors in Mammary Development and Breast Cancer. In D. LeRoith, W. Zumkeller and R. Baxter (Eds.), *Insulin-Like Growth Factors* (pp. 188-205). New York, Kluwer Academic/Plenum Publishers; 2003.
 6. **Wood, T.L.** Frederick, T.J. and Ness, J.K. IGF-I and brain growth: Multifarious effects on developing neural cells and mechanisms of action. In: Research and Perspectives in Endocrine Interactions, Deciphering Growth, eds. Carel, J.-C., Kelly, P.A. and Christen, Y. pp. 77-93; Springer-Verlag, Berlin Heidelberg; 2005.
 7. Jain, M.R., Tong, L., Wood, T.L. and Li, H. (2012) iTRAQ proteomics profiling of regulatory proteins during oligodendrocyte differentiation. In: Neuromethods, Expression Profiling in Neuroscience, Vol. 64, ed. Karamanos, Y. (Humana Press).
- C. Patents Held
- U.S. Utility Application Entitled "Assay for the Measurement of IGF Type I Receptor and Insulin Receptor Expression" Serial No.: 12/721,327; issued as US Patent 8,377,655 on 02/19/2013
- D. Other Articles (Reviews, Editorials, etc.) In Journals; Chapters; Books; other Professional Communications
1. **Wood, T.L.** Gene targeting and transgenic approaches to IGF and IGF binding protein function. Invited Review. *American Journal of Physiology* 269 (*Endocrinology and Metabolism* 32): E613-E622, 1995.
 2. **Wood, T.L.** and Yee, D. Introduction: The IGFs and IGFBPs in the normal mammary gland and in breast cancer. (Special Issue on the IGFs and IGFBPs in mammary gland development and breast cancer, **T.L. Wood** and D. Yee guest editors). *Journal of Mammary Gland Biology & Neoplasia* 5:1-5, 2000.

3. **Wood, T.L.**, Richert, M.M., Stull, M.A. and Allar, M.A. Insulin-like growth factors and insulin-like growth factor binding proteins during postnatal development of murine mammary glands. *Journal of Mammary Gland Biology & Neoplasia* 5:39-42, 2000.
4. Stull, M.A. and **Wood, T.L.** Expression of IGF system components in the normal mammary gland. Invited Review, special edition on the Insulin-Like Growth Factors, D.Yee (Ed), *Breast Disease* 17:15-26, 2003.
5. Rowzee, A.M., Lazzarino, D.L., Rota, L., Sun, Z. and **Wood, T.L.** IGF ligand and receptor regulation of mammary development. *Journal of Mammary Gland Biology & Neoplasia* 13:361-370, 2008.
6. Yee, D. and **Wood, T.L.** The IGF system in mammary development and breast cancer (Preface). *Journal of Mammary Gland Biology & Neoplasia* 13:351-352, 2008.
7. Romanelli, R.J. and **Wood, T.L.** Directing traffic in neural cells: Determinants of receptor tyrosine kinase localization and cellular responses. *Journal of Neurochemistry* 105:2055-2068, 2008.
8. Kleinberg, D., **Wood, T.L.**, Lee, A.V. and Furth, P.A. (2009) IGF-I in the transition from normal mammary development to preneoplastic mammary lesions. *Endocrine Reviews* 30:51-74.
9. Rota, L.M.*, Lazzarino, D.A.*, Ziegler, A., LeRoith, D. and Wood, T.L. (2012) Determining mammosphere-forming potential: Application of the limiting dilution analysis. *Journal of Mammary Gland Biology & Neoplasia* 17:119-123. *authors contributed equally
10. Bentires-Alj, M. and Wood, T.L. Introduction: Methods in Mammary Gland Biology and Breast Cancer (2012) *Journal of Mammary Gland Biology. & Neoplasia* 17:89-90.
11. **Wood, T.L.**, Bercury, K.K., Cifelli, S.E., Mursch, L.E., Min, J., Dai, J. and Macklin, W.B. (2013) mTOR: A link from the extracellular milieu to transcriptional regulation of oligodendrocyte development. *ASN Neuro* 5(1):63-79.
12. Ziegler, A.N., Levison, S.W. and **Wood, T.L.** (2014) Insulin and IGF receptor signaling in neural stem cell homeostasis. (invited review) *Nature Reviews Endocrinology*, advance online publication 2 December 2014; doi:10.1038/nrendo.2014.208.
13. Rota, L.M. and **Wood, T.L.** (2015) Crosstalk of the insulin-like growth factor receptor with the Wnt signaling pathway in breast cancer. (invited mini-review) *Frontiers in Endocrinology*, section *Cancer Endocrinology* Jun 9;6:92. doi: 10.3389/fendo.2015.00092. eCollection 2015. Review.
14. Ornelas, I.M., McLane, L.E., Saliu, A., Evangelou, A.V., Khandker, L., and **Wood, T.L.** (2016) Heterogeneity in Oligodendroglia: Is it Relevant to Mouse Models and Human Disease? *Journal of Neuroscience Research*, 94:1421-1433, doi: 10.1002/jnr.23900, Epub 2016 Aug 25. Review.

PRESENTATIONS:

1993

The Wistar Research Institute, PA, "The IGF Binding Protein-2 Gene: Developmental Expression and Genetic Deletion by Gene Targeting"

Department of Biochemistry, UMDNJ, Newark, NJ, "The IGF Binding Protein-2 Gene: Developmental Expression and Genetic Deletion by Gene Targeting"

- Center for Biotechnology and Medicine, UMDNJ, Piscataway, NJ, "The IGF Binding Protein-2 Gene: Developmental Expression and Genetic Deletion by Gene Targeting"1994
- Department of Endocrinology, PSU/Hershey Medical Center, PA, "Functional Studies of the IGF Binding Proteins: Lessons from Mouse Models"
- Department of Pharmacology, PSU/Hershey Medical Center, PA, "Using Gene-Targeted Mouse Lines to Study IGF Binding Protein Expression and Function in Reproductive Tissues"
- 1995
- Department of Endocrinology, PSU/Hershey Medical Center, PA, "Expression of IGFs and IGFBPs in Developing Mammary Gland"
- Fifth International Insulin and IGF Symposium, Gainesville, FL, "Regulation of Brain IGFBP-2 and the Type I IGF Receptor by Ciliary Neurotrophic Factor"
- Third International Symposium on IGFBPs, Tuebingen, Germany, "Cytokines Regulate IGF Binding Proteins in the CNS"
- Department of Biology, PSU, PA, "Cytokine Regulation of Injury-Associated Growth Factors in the CNS"
- 1996
- Winter Conference on Brain Research, Snowmass, Colorado, "Regulation of Brain IGFBP-2 and the Type I IGF Receptor by Ciliary Neurotrophic Factor"
- Department of Biochemistry, PSU/College of Medicine, PA, "IGFs and their Binding Proteins: Induction by Trauma and Cytokines in the Brain"
- Genetics Colloquium, PSU, State College, PA, "Using Gene-Targeted Mouse Lines to Study IGF Binding Protein Expression and Function in Reproductive Tissues"
- Department of Anatomy, West Virginia University, Morgantown, West Virginia, "Gene Targeting Approaches to Reveal IGF and IGF Binding Protein Functions"
- 1997
- Department of Endocrinology, PSU/College of Medicine, Hershey, PA, "Update on the IGFBP-2 Knock-out Mouse"
- Cephalon Pharmaceuticals, West Chester, PA, "Developmental Expression and Targeting of the IGFBP-2 Gene"
- Cell and Molecular Biology Seminar Series, PSU/College of Medicine, Hershey, PA, "IGF Binding Proteins in Development and CNS Injury: Regulators of IGF Availability"
- Department of Neurology, University of Michigan, Ann Arbor, MI, "Trophic Factors in the CNS: In Vivo Approaches to Investigate Regulation and Function"
- The Wistar Institute and The University of Pennsylvania, Philadelphia, PA, "Manipulating adult oligodendrocytes in vivo: Growth and trophic factor synergisms"
- 1998
- Winter Conference on Brain Research, Snowbird, Utah, Workshop Organizer and Speaker, "Strategies for Remyelination: From Stem Cells to Sheaths"
- Genetics Colloquium, PSU, State College, PA, "Regulation and Function of the IGFs and IGFBPs during Normal Development of the Mouse Mammary Gland"
- Department of Cell Biology, University of North Carolina, Chapel Hill, NC, "Insulin-Like Growth Factors in the Developing Mammary Gland"
- Department of Anatomy, Uniformed Services University of the Health Sciences, Bethesda, MD, "Mechanisms of Ciliary Neurotrophic Factor Action in the CNS"
- 1999
- Gordon Conference on Mammary Gland Biology, Henniker, NH, "Roles for the IGFs and IGF Binding Proteins in Mammary Ductal Growth"
- 5th International Symposium on Insulin-Like Growth Factors, Brighton, England, "IGF-Mediated Growth of Mammary Epithelium during Ductal Development in the Mouse"
- Department of Molecular and Cellular Physiology, PSU/College of Medicine, "The IGFs and IGFBPs in Mammary Epithelial Growth in the Mouse"
- 2000
- Department of Physiology, University of Colorado School of Med, Denver, CO, "Deciphering Functions of the IGFs and IGFBPs in the Postnatal Mammary Gland"
- Department of Biochemistry, UMDNJ, Newark, NJ, "IGF-Mediated Growth of Mammary Epithelium in the Mouse"

Gordon Conference on Myelin, Invited Speaker, Luca, Italy, "Growth Factor Interactions in Oligodendrocyte Generation"
Baylor College of Med Postdoctoral Association Seminar Series, Houston, TX, "Deciphering Functions of the IGFs and IGFBPs in the Developing Mammary Gland"
Rutgers University, Department of Animal Sciences, "Deciphering Functions of the IGFs and IGFBPs in the Developing Mammary Gland"

2001

Kutztown University, "Transgenic and Gene-Targeting Approaches to Investigate Gene Function"
Penn State Cancer Center, "IGF-Mediated Growth of Breast Epithelium"

2002

Clinical Endocrinology Branch, NIH, "Role of IGFs and IGF-IR in Mammary Epithelial Growth"
Department of Endocrinology, New York University, "Deciphering Functions of the IGFs and IGFBPs in the Developing Mammary Gland"
Department of Pathology, University of Virginia, "The IGFs and IGF-IR in Mammary Epithelial Growth and Function"
Rutgers University, Department of Animal Sciences, "The IGFs and IGF-IR in Mammary Epithelial Growth and Function"
Department of Pharmacology, Penn State College of Medicine, "The IGFs and IGF-IR in Mammary Epithelial Growth and Function"
Department of Cell Biology, Georgetown University School of Medicine, "The IGFs and IGF-IR in Mammary Epithelial Growth and Function"
Department of Biomedical Sciences, Ohio University, "The IGFs and IGF-IR in Mammary Epithelial Growth and Function"
Neuroscience Program sponsored Research Day, Penn State University, "Proliferation and Cell Cycle Regulation in Oligodendrocyte Progenitors"
Department of Physiology, University of Chicago Medical Center, "The IGFs and IGF-IR in Mammary Epithelial Growth and Function"
Third Hershey Conference on Developmental Cerebral Blood Flow and Metabolism, Invited Speaker, "Glutamate-Mediated Apoptosis and Trophic Factor Protection of Immature Oligodendrocytes"
Weiss Center for Research, "Death and Survival in the Oligodendrocyte Lineage: Differential Effects of Trophic Factors on Akt Activation"
Department of Neuroscience, University of Connecticut Health Center, "Survival of Oligodendrocyte Progenitors: Differential Effects of Trophic Factors on Akt Activation"

2003

Department of Neuroscience, Syracuse University Medical Center, "Proliferation and Survival in the Oligodendrocyte Lineage"
Endocrinologie Moleculaire, Inserm, Faculte De Medecine Necker, Paris, France, "IGF-I in Cell Cycle Checkpoint Progression: General and Tissue-Specific Effects"
Department of Neurology & Neurosciences, UMDNJ, Newark, "Proliferation and Survival in the Oligodendrocyte Lineage"
Juvenile Diabetes Foundation/Penn State University Workshop on Diabetic Retinopathy, "Trophic Factors and Survival Pathways in Neural Cells"
8th International Pituitary Congress, NYC, "Overview of GH and IGF Actions in the Central Nervous System"
Athens Conference on GH, IGF and Prolactin, Athens, Ohio, "Context Dependency of IGF Actions in Proliferation, Survival and Differentiation"

2004

Winter Conference on Brain Research, Copper, Colorado, Invited Symposium speaker, "Glutamate-Mediated Death and Trophic Factor Protection of Oligodendrocyte Progenitors"
Department of Pharmacology, University of Florida, Gainesville, Florida, "Mechanisms of Excitotoxic Death and Trophic Factor Protection in Oligodendrocyte Progenitors"
NIH, Division of Diabetes & Metabolism, Bethesda, MD, "IGF Regulation of Cell Cycle and Differentiation in Mammary Epithelial Cells"
Gordon Research Conference on Myelin Biology, Il Ciocco, Italy, Invited speaker, "Convergence of Signaling Pathways on Cell Cycle Targets in Oligodendrocyte Progenitors"

Penn State Children's Hospital, Pediatric Research Day, June 3, Hershey, PA, "Mechanisms of Death and Survival in the Perinatal Brain"
Annual Meeting of the Endocrine Society, New Orleans, Invited Symposium speaker, "Insulin-Like Growth Factors and Cell Cycle Progression in the Mammary Gland"
Endocrine Retreat 2004, Bel Air Castle, Beaugency, France, Invited Speaker, "IGF Receptor Signaling Pathways in Oligodendrocyte Progenitors"
Ipsen Foundation Symposium – Deciphering Growth, Paris, France, "IGF-Mediated Pathways that Regulate Brain Growth"

2005

Universidad Central del Caribe, April 14, Bayamon, Puerto Rico, "Mechanisms of Excitotoxic Death and Trophic Factor Protection in Oligodendrocyte Progenitors"
New Jersey Medical School, UMDNJ Tumor Board, October 17, "Insulin-like Growth Factor Signaling and Function in Mammary Epithelial Cells and Breast Cancer Cells"
International Conference: The Role of the IGF System in Cancer, November 10-12, Taormina, Italy, "The IGF-IR in Breast Development and Cancer"
Albert Einstein College of Medicine of Yeshiva University, Department of Pathology, November 29, "IGF Receptor Signaling Pathways and Targets in Oligodendrocyte Progenitors"

2006

Department of Reproductive Sciences, University of Colorado Health Sciences Center, January 20, "Functions of Epithelial and Stromal IGF-I in Mammary Development"
Department Neurology & Neurosciences, Grand Rounds, NJMS/UMDNJ, March 1, "Pathways of Death and Survival in Oligodendrocytes"
American Society for Neurochemistry, Portland, OR, March 12, "IGF-I-Mediated Signaling Pathways and Downstream Targets in Oligodendrocyte Progenitors"
Dept. Medicine, Brown University Medical School, March 28, "IGF Receptor Trafficking and Sustained Akt Phosphorylation in Neural Progenitors"
Department of Biochemistry & Molecular Biology, New Jersey Medical School/UMDNJ, April 6, "IGF Receptor Signaling Pathways and Targets in Oligodendrocyte Progenitors"
Fifth Hershey Conference on Developmental Cerebral Blood Flow and Metabolism, Invited Speaker, June 2, "Death and Survival Pathways in Perinatal Oligodendrocytes"
Department of Biology, Rutgers University, September 26, "IGF Receptor Signaling Pathways and Trafficking in Oligodendrocyte Progenitors"

2007

Gordon Research Conference on IGFs in Physiology and Disease, March, 19, "IGF-I is a Master Regulator of CNS Progenitor Development"
NJMS Tumor Board, May, 7, "Insulin-like Growth Factors and Receptors in Mammary Epithelial Growth"
ImClone Systems, New York, May 10, "New considerations for understanding IGF-IR signaling in mammary and neural epithelial cells"
New Jersey Medical School, Symposium on Neuroprotection and Neurorepair: Pharmacology to Stem Cells, May 14, "Pathways and Targets of IGF-I Mediated Neuroprotection"
NovoNordisk/Hagedorn Research Institute, Copenhagen, September 13, "IGF Signaling Pathways in CNS Progenitors"
National Multiple Sclerosis Society Regional Conference, Parsippany, NJ, October 14, "Stem Cells & Beyond: Emerging Therapies for CNS Repair in MS"
Dept. Physiology, University of Cincinnati, Nov 13, "Insulin, IGF and Hybrid Receptors in Mammary Epithelial Cells – the Plot Thickens for IGF Signaling"

2008

Program Project Grant Retreat, Denver Health Sciences Center, January 17, "New Perspectives on IGF Signaling in Mammary Gland Development and Breast Cancer"
Winter Conference on Brain Research, January 30, "IGF Signaling and Oligodendrocyte Development"
Endocrine Grand Rounds, NYU School of Medicine, February 15, "New Perspectives on IGF Signaling in Mammary Gland Development and Breast Cancer"
Department of Pharmacology, Emory University School of Medicine, April 1, "IGF Signaling Pathways and Function in Oligodendrocyte Progenitors"
University of Sydney, Australia, May 6, "IGF Signaling in Mammary Epithelial Cells"

School of Molecular and Biomedical Science, University of Adelaide, Australia, May 14, "Diverse Roles for IGF-I and PI3K/Akt Signaling in CNS Progenitors"
IGF-OZ 2008 Meeting on The IGF System and Related Proteins in Development and Disease, Adelaide, Australia, May 15-16, Keynote International Speaker, "New Perspectives on IGF Signaling in Mammary Development and Breast Cancer"
Chicago Myelin Afficionado Group, Aug. 25, "Diverse Roles for IGF-I and PI3K/Akt Signaling in Oligodendrocyte Progenitors"
UCLA, October 31, "Diverse Roles for IGF-I and PI3K/Akt Signaling in Oligodendrocyte Progenitors"

2009

Pathology Department, NJMS/UMDNJ, January 8, "New Perspectives on IGF Signaling in Mammary Development and Breast Cancer"
Program Project Grant Retreat, Denver Health Sciences Center, January 23, "Mysteries of IGF-IR and Insulin Receptor Signaling in Mammary Epithelial Cells"
Center for Neuroscience Research, Children's Research Institute, Children's National Medical Center, Washington D.C., April 3, "Diverse Roles for IGF-I and PI3K/Akt Signaling in Oligodendrocyte Progenitors"
Institutes of Brain Science, Fudan University, Shanghai, China, April 9, "The Mammalian Target of Rapamycin (mTOR) Pathway in Differentiation of Oligodendroglia"
Second Shanghai Forum in Neonatology, Shanghai, China, April 10-11, "Cell Death and Survival Pathways in Oligodendrocyte Progenitors: Why Glioprotective Strategies may differ from Neuroprotective Strategies"
Developmental Biology Program for Pediatric Disorders, CHOP/UPENN, June 2, "The Mammalian Target of Rapamycin (mTOR) Pathway in Differentiation of Oligodendroglia"
Endocrine Society Annual Meeting, Invited Symposium Speaker, Washington D.C., June 12, "IGF Regulation of Neural Stem/Progenitor Cells"
Myelin Satellite Meeting, Gyeongju, South Korea, August 20, "PI3K/Akt/mTOR Signaling in Oligodendrocyte Differentiation"
International Society for Neurochemistry Conference, Invited Symposium Speaker, Busan, South Korea, August 26, "PI3K/Akt/mTOR Signaling in Oligodendrocyte Differentiation"
Euroglia 2009 Conference, Paris, France, September 11, "The PI3K/Akt/mTOR Pathway in Oligodendrocyte Differentiation"

2010

Program Project Grant Retreat, Denver Health Sciences Center, January 21, "Disruption of IGF Signaling during Alveolar Differentiation"
Myelin Gordon Research Conference, February 16, "Targets of mTOR Signaling and Oligodendrocyte Differentiation"
Department of Molecular, Cellular & Developmental Biology, University of Michigan, Ann Arbor, April 9, "PI3K/Akt/mTOR Signaling in Oligodendrocyte Differentiation"
Department of Animal Sciences, Rutgers University, New Brunswick, April 23, "New Perspectives on IGF-IR and Insulin Receptor in Mammary Epithelial Cells"
SUNY Glial Biology Seminar Series, Stony Brook, NY, April 30, "Unraveling mTOR Signaling and the Differentiation Program in Oligodendroglia"
Department of Cell Biology, New York University, New York, May 18, "Unraveling mTOR Signaling and the Differentiation Program in Oligodendroglia"
Hershey Conference on Developmental Brain Injury, Snowbird, Utah, June 3, "Mechanism of Glutamate Excitotoxicity in Oligodendrocyte Progenitors"
Endocrine Society Annual Meeting, San Diego, CA, June 19, "Insulin-like Growth Factor Signaling Regulates Stem/Progenitor Cells in the Epithelium of Virgin Mouse Mammary Glands"
Foundation des Treilles Conference on Myelinating Glia: Development, Function and Pathobiology, October 19, "Signaling in the Oligodendrocyte Lineage"

2011

Program Project Grant Retreat, Denver Health Sciences Center, January 21, "IGF Regulation of Mammary Epithelial Lineage and Differentiation"
Winter Conference on Brain Research, Keystone, CO, January 26, "mTOR Signaling in Oligodendrocyte Differentiation and Myelination"
Genetics Department, Einstein College of Medicine, February 16, "IGF Regulation of

Mammary Epithelial Lineage and Differentiation”
Neurology Grand Rounds, Robert Wood Johnson Medical School/UMDNJ, March 16,
“Mechanisms of Remyelination and Repair in Multiple Sclerosis: From Mice to (Wo)Men”
Honorary Symposium for Dr. Margaret Neville, Department of Obstetrics & Gynecology, Denver
Health Sciences Center, Denver, CO, May 11, Keynote speaker, “What Breasts and Brains can
tell us about IGF Receptors in Stem/Progenitor Cell Regulation”
International Society for Neurochemistry, Athens, Greece, August 30, “mTOR Signaling in
Oligodendrocyte Differentiation”
Dept. Anatomy & Cell Biology, Schulich School of Medicine and Dentistry, University of Western
Ontario, London, Ontario, Canada, September 22
Biomedical Engineering Program, NJIT, Newark, NJ, November 4, “Targeting CNS Repair:
Signaling Pathways that Regulate Myelination and Remyelination”

2012

Winter Conference on Brain Research, Snowbird, Utah, January 22, “Trails to Myelination and
Shutes to Oligodendrocytes”
Molecular, Cellular, Developmental Endocrinology Program, Yale University School of Medicine,
February 24, “What Breasts and Brains can tell us about IGF/Insulin Receptors in Stem &
Progenitor Cell Regulation”
American Society for Neurochemistry, Symposium, Baltimore, MD, March 5, “Extrinsic to
Intrinsic Signaling in OPCs: Impact of mTOR Signaling in Oligodendrocyte Differentiation and
Myelination”
Max Plank Institute for Experimental Medicine, Göttingen, Germany, October 22, “Extrinsic to
Intrinsic Signaling in Neural Stem Cells and OPCs”

2013

ISN 2013 Satellite Meeting - Myelin: from Basic to Translational Research, Cancun, Mexico, April
16-19, Opening Keynote Address, “Extrinsic to Intrinsic Signaling in OPCs: Impact of mTOR
Signaling in Oligodendrocyte Differentiation and Myelination”
Northeast Regional MS Symposium, Boston, MA, September 21, “The mTOR Pathway in
Oligodendrocyte Differentiation and Myelination”
Obesity, Diabetes and Cancer: The role of Insulin and Insulin-like Growth Factors, Taormina, Italy,
October 4, “The Role of the IGF System in Stem Cells and Cancer Stem Cells”

2014

Human Genetics Institute of NJ/Stem Cell Program, Rutgers University, April 17th, “Insulin and
IGF receptor signaling in neural stem cell homeostasis”
Plenary Speaker, 16th International Congress of Endocrinology and Endocrine Society 96th Annual
meeting, Chicago, IL, June 21st, “Insulin and IGF Receptor Signaling in Stem Cell Homeostasis”
Cancer Institute of New Jersey, September 10th, “IGF/insulin receptor and Wnt signaling interactions
in mammary development and tumorigenesis”
Immunology-Cancer Biology Seminar Series, Cedars-Sinai Medical Center/UCLA, September 18th,
Department of Biology, Carleton College, September 22nd, Signaling Pathways Regulating Neural
Stem/Progenitor Cell Homeostasis and Myelination in the CNS
International Congress of the Growth Hormone Research and IGF Societies, October 18th, Singapore
“Insulin-like Growth Factor Receptor Inhibition in Mammary Epithelium enhances Wnt1-
Mediated Tumors, Canonical Wnt Signaling and IGF-II/Insulin-Receptor A Expression”
Brain and Spine Institute, L’Institut du Cerveau et de la Moelle Épineière (ICM), Paris, November
24, “IGF/Insulin and mTOR signaling in Neural Stem Cell Homeostasis and CNS Myelination”

2015

Symposium Speaker, Endocrine Society Annual Meeting, March 5th, San Diego, CA.,
“IGF/insulin receptor and Wnt signaling interactions in mammary development and cancer”
Descartes University, April 7, Paris, “Extrinsic to Intrinsic Signaling in OPCs: Impact of
mTOR Signaling in Oligodendrocyte Differentiation and Myelination”
Conference on Novel Mechanisms of Signal Transduction Involved in Cancer Chemoresistance,
University of Catanzaro, Italy, May 6th, “IGF-1R and Wnt signaling cross-talk in triple-negative
breast cancer”
Endocrinologie Moléculaire, Inserm, Faculte De Medecine Necker, Paris, France, May 22nd,
“IGF/insulin receptor and Wnt signaling cross-talk in triple-negative breast cancer”
CNRS/Muséum National d’Histoire Naturelle, Paris May 26th, “IGF/insulin and mTOR Signaling in

Neural Stem Cell Homeostasis and CNS Myelination”
Invited speaker, ELA Foundation, Paris, France June 25th, “Extrinsic to Intrinsic Signaling in Oligodendrocyte Progenitors”
Inserm, Hôpital Robert Debré, Paris Diderot Université, Paris, France, July 2nd, “mTOR Signaling in Oligodendrocyte Differentiation and Myelination”
Department of Physiology, Anatomy & Genetics, St. Anne’s College, University of Oxford, UK, July 10th, “IGF/insulin and mTOR Signaling in Neural Stem Cell Homeostasis and CNS Myelination”
Symposium speaker and Session Chair, XII European Meeting on Glial Cells in Health and Disease, Bilbao, Spain, July 17th, “mTOR Signaling in Oligodendrocyte Progenitor Cell Differentiation and Myelination”

2016

Department of Cell Biology, Rutgers University, “IGF/insulin and mTOR Signaling in Neural Stem Cell Homeostasis and CNS Myelination”
8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, "Loss of IGF-1R in the Luminal Lineage promotes Basal and Metastatic Phenotypes in the Wnt model of Triple Negative Breast Cancer"
Child Health Institute, Rutgers University, “mTOR Signaling in Oligodendrocyte Progenitor Cell Differentiation and Myelination”

2017

Gordon Research Conference on Insulin and IGF Signaling in Physiology & Disease, Ventura, CA, Invited Speaker, “Insulin and IGF Receptor Signaling in Neural Stem Cell Homeostasis”
American Society for Neurochemistry Meeting, Little Rock, AR, Symposium Speaker, “TSC and mTOR Signaling in Oligodendrocyte Differentiation and Remyelination”
Children’s Health Research Institute, University of Western Ontario, Canada, “IGF-II and Insulin Receptor Signaling in Adult Neural Stem Cell Homeostasis”
International Society for Neurochemistry ISN/ESN Conference, Paris, France, Symposium Organizer & Chair, “Insulin and IGF Signaling in the Adult Brain: New Functions in Stem Cells, Plasticity, Aging and Neurodegeneration”; Speaker, “Insulin and IGF Receptor Signaling in Neural Stem Cell Homeostasis”
Neuroscience Department, U. Connecticut Medical School, Farmington, CT, “TSC and mTOR Signaling in Oligodendrocyte Differentiation and Remyelination”

2018

Rutgers Brain Health Institute, Alzheimer’s Disease and Neurodegeneration Symposium, Invited Speaker, “White Matter Vulnerability: Intracellular Signaling Pathways in Oligodendroglia that Regulate Demyelination and Repair “
Cancer Institute of New Jersey, Cancer Metabolism & Growth Program, “A Paradigm Shift for IGF-1R in Breast Cancer: Loss of IGF-1R Function Promotes Microenvironment changes and Metastasis in a Model of TNBC”