Curriculum Vitae

Steven R. Goodman, Ph.D.

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Phone:	315-464-8716
Email:	goodmans@upstate.edu

Date of Birth:	December 29, 1949
Place of Birth:	New York, New York
Home Address:	147 Avriel Dr., Fayetteville, NY 13066
Marital Status:	Married to Cindy Goodman
Children:	Laela, Christie, Gena, Jessie, Laurie, and David

Professional Appointments and Training:

2008-present	Professor, Department of Biochemistry and Molecular Biology Professor, Department of Pediatrics SUNY Upstate Medical University
2009-present	Executive Director, International Institute for Biomedical Sciences & Technology (IIBMST)
2008-2013	Vice President for Research and Dean, College of Graduate Studies SUNY Upstate Medical University
2008-2013	Executive Director, SUNY REACH (Research Excellence in Academic Health).
2009-2012	Guest Professor at Huazhong University of Science & Technology, Wuhan, China
2001-2008	C. L. and Amelia A. Lundell Professor of Life Sciences, University of Texas at Dallas
2001-2008	Professor, Department of Molecular and Cell Biology, University of Texas at Dallas
2001-2008	Adjunct Professor, Department of Cell Biology, UT Southwestern Medical Center
2003-2006	Director, Institute of Biomedical Sciences and Technology, University of Texas at Dallas
2001-2004	Director, UTD Sickle Cell Disease Research Center
2001-2003	Head, Department of Molecular and Cell Biology, University of Texas at Dallas
1999-2001	Professor and Chairman, Department of Cell Biology and Neuroscience, University of South Alabama, College of Medicine
1993-2001	Director, USA Comprehensive Sickle Cell Center, University of South Alabama, College of Medicine
1988-1999	Professor and Chairman, Department of Structural and Cellular Biology, University of South Alabama, College of Medicine

1987-1988	Professor of Physiology, Head of Multidisciplinary Laboratories, The Milton S. Hershey Medical Center, The Pennsylvania State University
1985-1988	Director, Cell and Molecular Biology Center, The Milton S. Hershey Medical Center, The Pennsylvania State University
1985-1988	Director, Interdepartmental Graduate Program in Cell and Molecular Biology, The Milton S. Hershey Medical Center, The Pennsylvania State University
1983-1987	Associate Professor of Physiology, Head of Multidiscipline Laboratories, The Milton S. Hershey Medical Center, The Pennsylvania State University
1979-1983	Assistant Professor of Physiology, Head of Multidiscipline Laboratories, The Milton S. Hershey Medical Center, The Pennsylvania State University
1977-1979	Research Fellow in Cell Biology, The Biological Laboratories, Harvard University
1976-1977	Research Fellow in Molecular Biology, The Sidney Farber Cancer Center, Harvard Medical School
1971-1976	Ph.D. in Biochemistry – Saint Louis University Medical School
1967-1971	B.S. in Chemistry – State University of New York at Stony Brook

Awards, Honors and National Service:

2011-12	Recipient of Distinguished Scientist Award, Society for Experimental Biology and Medicine
2006	Organizer, 2006 AACBNC meeting in Aruba
2005	American Association of Anatomists, Public Affairs Committee
2003-2005	Elected President of the Association of Anatomy, Cell Biology, and Neurobiology Chairs (AACBNC)
2001-2008	Invited member, Congressional Liaison Committee
2001-2008	Invited member, Joint Steering Committee for Public Policy
2001-2005	Elected representative, National Biomedical Caucus by the AACBNC
2001-2005	Elected representative to CAS of the AAMC by the AACBNC
2001	Co-organizer of the W. Mejbaum-Katzenellenbogen Molecular Biology Seminar in Wroclaw-Szklarska Poreba, Poland
2000-2002	Councilor, Association of Anatomy, Cell Biology and Neuroscience Chairpersons
1999	Keynote Speaker, French Society of Hematology Meeting, Paris, France
	Co-chair, W. Mejbaum-Katzenellenbogen's Molecular Biology Seminar Series "5. Membrane Skeleton. Regulatory Function in Normal and Abnormal Cells" in Wroclaw-Szklarska Poreba, Poland
1997-2001	Advisory Member, State of Alabama Sickle Cell Oversight and Regulatory Committee
1996	Host and Chair, Steering Committee, 21st Annual Meeting of the National Sickle Cell Centers Program

1995-1997	Chair, Working Group that prepared the Cell Biology/Histology Section of the United States/Canadian curriculum in the Anatomical Sciences
1995-1996	President of Sigma Xi
1995	Advisory Member and Invited Lecturer, International Meeting on Membrane Skeleton Structure and Function, June 19-21, 1995, Wroclaw-Karpacz, Poland
1986	Organizer and chairperson for a major symposium on “Brain Spectrin: Structure, Location and Function” held at the 1986 Society for Neurosciences meeting
1982-1987	Established Investigator, American Heart Association
Summer 1982	Invited scientist to the Soviet Union as part of the US-USSR Scientific Exchange Program, supported by NIH and the Soviet Ministry of Exchange
1977-1979	NIH postdoctoral research fellow
1967	New York Regents Scholarship

Editorial Boards:

2006-Present	**Editor-in-Chief**, Experimental Biology and Medicine
2006-Present	Cellular and Molecular Biology
1995-Present	Cellular & Molecular Biology Letters
1995-Present	Brain Research Bulletin
1988-1993	Molecular and Cellular Biochemistry
1983-1990	American Journal of Physiology: Cell Physiology

Reviewer:

Acta Haematologia
American Journal of Physiology
Biochemistry
Biochemistry Biophysics Acta
Blood
Brain Research
Brain Research Bulletin
Cancer Research
Cellular and Molecular Biology Letters
Cell Motility and Cytoskeleton
Cell Proliferation
Current Proteomics
Developmental Biology
Developmental Dynamics
Diabetes Reviews
European Journal of Biochemistry
European Journal of Hematology
European Journal of Pharmacology
Experimental and Clinical Immunogenetics
FASEB Journal

Genesis
Genomics
Gerontology
Gynecologic Oncology
Histochemistry and Cytochemistry
International Journal of Biochemistry & Cell Biology
Journal of Alzheimer's Disease
Journal of Biological Chemistry
Journal of Cell Biology
Journal of Cell Physiology
Journal of Clinical Investigation
Journal of Comparative Neurology
Journal of Histochemistry and Cytochemistry
Journal of Investigative Dermatology
Journal of Molecular Biology
Journal of Molecular and Cellular Cardiology
Journal of Neurochemistry
Journal of Neurology
Journal of Neuroscience
Journal of Ocular Pharmacology & Therapeutics
Journal of Proteome Research
Life Sciences
Molecular and Cell Proteomics
Nature
Physiology and Behavior
Proceedings National Academy of Science
Protein Science
Proteomics
Proteomics: Clinical Applications
Science
The Lancet
Trends in Neuroscience
Visual Neuroscience

Memberships:

2009-Present	Association of Anatomy Cell Biology and Neurobiology Chairpersons, Emeritus
2006-Present	Society for Experimental Biology and Medicine (SEBM)
1994-Present	Sigma Xi
1984-Present	American Association for the Advancement of Science
1984-Present	New York Academy of Sciences
1983-Present	American Society of Hematology
1983-Present	The American Physiological Society
1982-Present	The American Society of Biological Chemists
1980-Present	Biophysical Society
1980-Present	Red Cell Club
1980-Present	The American Association of Anatomists
1980-Present	The American Society for Biochemistry and Molecular Biology
1980-Present	The American Society for Cell Biology

Consultantships:

January 28-30, 1981	Ad hoc member, NIH National Heart, Lung and Blood Institute program project site visit Team
June 10-12, 1981	Member, NIH National Institute of Arthritis, Metabolism and Digestive Diseases program project site visit team

October 26-28, 1981	Ad hoc member, NIH National Heart, Lung and Blood Institute program project site visit team
December 4, 1981	Ad hoc consultant, NIH Heart, Lung and Blood Research Review Committee B review of program project grant applications in the area of Experimental Hematology
1983-1984	Member, Pennsylvania State University Project Grants Review Committee
1983-1987	Study Section member, American Heart Association Pennsylvania Affiliate Basic Science Subcommittee (Research Committee)
February 15-17, 1984	National Heart, Lung and Blood Institute, member, site visit team
May 14-16, 1984	National Heart, Lung and Blood Institute, member, site visit team
1985-1988	Member, Pennsylvania State University American Cancer Society Review Committee
1987-1988	Chairman, American Heart Association, Pennsylvania Affiliate Research Peer Review Committee
June 27, 1989	Member, NIH Hematology I site visit team which visited the University of California, San Francisco
1991-1993	Study Section member, American Heart Association Alabama Affiliate Basic Science Subcommittee (Research Committee)
July 18-20, 1993	Member, NIDDK Review Committee, Core Centers for Gene Therapy of CF and Other Genetic Diseases, Washington, DC
October 18, 1994	Ad hoc Member, NIH, National Institute of Neurological Disorders and Stroke, Neurological Disorders Program Project Review B Committee
May 15, 1995	Advisor, NIH Committee on the Future of the Sickle Cell Centers Program, Bethesda, Maryland
November 6-7, 1995	Member, NIH Special Study Section-2, Reviewer of STTR and SBIR applications
March 18-20, 1996	Member, External Review Committee for the Anatomy and Cell Biology Department at LSU, Shreveport
January 11-13, 1997	Member, Arizona Disease Control Research Commission, National Peer Review Panel
1997-2001	Member, Bay Health Plan Special Needs Ad Hoc Committee
January, 2000	Member, Arizona Disease Control Research Commission, National Peer Review Panel
September 11, 2001	Member, NINDS, Council ZNS1 SRB-KO3, RFA, Parkinson's Disease
November 1, 2001	Reviewer, Philip Morris External Research Grants
August 20, 2002	Member, NHLBI Special Emphasis Panel
May 21, 2004	Member, ZHL 1 CSR-G 01 Scientific Review Group, Review of Institutional National Research Service Awards (T32s)
August 12, 2005	Chairperson, NIH/National Human Genome Research Institute Special Emphasis Panel, Screening Assay Development for Sickle Cell Disease
2006-2009	Member, Review Panel for Israel Cancer Research Fund (ICRF)

January 8, 2007	Member, NIH NHLBI Special Emphasis Panel reviewing a Program Project Grant, Albert Einstein College of Medicine
April 16, 2007	Member, National AHA Basic Research Study Section Meeting, DFW Hiatt
October 15, 2007	Member, National AHA Basic Research Study Section Meeting, DFW Hiatt
October 20-21, 2008	Member, NIH Scientific Review Group ZRG1 HEME-C 02M- Thrombosis and Erythrocyte Biology
November 23-24, 2008	Member, International Business and Scientific Advisory Board of the Britton Chance Center for Biomedical Photonics
June 5, 2009	Reviewer, RFA-09-003 NIH Challenge Grants in Health and Science Research
2009- present	Member, International Business & Scientific Advisory Board, Wuhan, China
March 13, 2011	Reviewer, ZonMw Health Care Research, the Netherlands
2011, 2012	Mentor; PRIDE ("Programs to Increasing Diversity Among Individuals Engaged in Health-Related Research")
November 9, 2012	Reviewer, The Netherlands Science Center Converging Sciences Call Grant Application

Invited Speaker:

External Seminars

June 11-15, 1979	Invited Participant, Gordon Conference on Red Cells, Plymouth, NH
November 9-11, 1979	Invited Participant, Red Cell Symposium, Yale Medical School, New Haven, CT
February 18, 1981	Invited Speaker, "The Cytoskeleton of Abnormal Red Blood Cells," ICN-UCLA Symposia on Molecular and Cellular Biology, Keystone, CO
June 8-10, 1981	Invited Speaker, Vth US:USSR Symposium in Problem Area III, "Cellular Biology of the Heart," Hershey, PA
July 1-August 15, 1981	Invited to give a series of seminars and in 1982, carry out experiments in the Soviet Union as part of the US-USSR scientific exchange program supported by the NIH and the Soviet Ministry of Science. Experimental work was carried out in the Laboratory of Molecular and Cellular Cardiology, The All-Union Cardiology Research Center, Moscow, Academy of Medical Sciences of the USSR
July 12, 1982	"Cytoskeleton Membrane Interactions" Seminar at the All-Union Cardiology Research Center, Moscow, USSR
July 27, 1982	"The membrane skeleton of normal and abnormal human erythrocytes" Seminar, Institute of Protein Research, Poustchino, Moscow Region
July 28, 1982	"Spectrin-like protein in Non-erythroid Cells" Seminar to members of the Cancer Research Center and Laboratory of Molecular Biology and Bio-organic Chemistry, Moscow State University, USSR
August 3, 1982	"The Molecular Basic of Hereditary Spherocytosis" Seminar, Institute of Cytology, Leningrad State University, Leningrad, USSR
February 10, 1983	Invited Speaker, Jefferson Medical College, Cardeza Foundation for Hematologic Research, Philadelphia, PA, "Molecular Basis of Hereditary Spherocytosis"

April 10-12, 1983	Invited Speaker, Actin-Membrane Interaction Conference, "The Discovery of Spectrin-like Molecules in Nonerythroid Cells, and Recent Advances in Understanding the Structure, Localization, and Function of These Molecules," University of North Carolina, Chapel Hill, NC
June 1, 1983	Invited Speaker, American Red Cross Research Labs, Bethesda, MD, "The Spectrin Membrane Skeleton of Normal and Abnormal Human Erythrocyte"
August 15-19, 1983	Invited Speaker, Gordon Research Conference Red Cell program, "The Association Between Human Erythrocyte Protein 4.1 and the Erythrocyte Membrane," University of Rhode Island, Kingston, RI
October 2-5, 1983	Invited Speaker, Sixth International Conference on Red Cell Metabolism and Function, "The Red Cell Membrane Skeleton: A Mini Review," University of Michigan Medical School, Ann Arbor, MI
September 4, 1984	Invited Speaker, University of South Carolina, "Structure & Function of the Spectrin Membrane Skeleton"
November 12, 1986	Organizer, Chairperson and Speaker at a Symposium on "Brain Spectrin: Structure, Location and Function," 1986 Society of Neuroscience Meeting, Washington DC
December 16, 1986	Invited Speaker, University of Missouri, "Spectrin: The Journey from Red Cell to Synapse"
March 14, 1988	Invited Speaker, University of South Alabama, "Spectrin: From Red Cell to Synapse"
April 25, 1988	Invited Speaker, University of Colorado, "Spectrin: From Red Cell to Synapse"
March 9, 1990	Invited Speaker, University of Alabama at Birmingham, "Brain Spectrin Isoform Structure and Function"
April 17-23, 1990	Chaired a session entitled "Cytoskeleton, Axons, and Growth Cones" at the ICN-UCLA Colloquium on Cell and Molecular Aspects Of The Developing Nervous System (South Padre Island, TX) Seminar, "Development of the Neural Spectrin Membrane Skeleton"
May 10-15, 1990	Invited Speaker, 10^{th} School on Biophysics of Membrane Transport in Szczyrk, Poland, "The Interaction of Spectrin with Synaptic Vesicles"
May 19, 1990	Invited Speaker, USA Medical Alumni Association Annual Meeting, Perdido, AL, "What is Spectrin and Why Do We Care?"
September 3, 1990	Invited Speaker, First World Congress of Biomechanics, University of California, San Diego, CA, "Brain Spectrin: Structure and Function"
May 6, 1992	Invited Speaker, Chicago Medical School, "Unraveling the Spectrin Supergene Family"
April 22, 1993	Invited Speaker, University of Arizona, College of Medicine, "The Molecular Basis of the Irreversibly Sickled Cell"
March 24, 1994	Chair, Session on "Transgenic Mice/Genetics," National Sickle Cell Centers Meeting, NYC
April 4, 1994	Invited Speaker, Auburn University, Department of Biology, "The Molecular Basis of the Irreversibly Sickled Cell"
October 20, 1994	Invited Speaker, Shorter College, Department of Biological Sciences, "Reversing Irreversibly Sickled Cell"
June 19, 1995	Invited Speaker, W. Mejbaum-Katzenellenborgen's Seminars, Warclaw, Poland, "Membrane Skeleton Defects Leading to the Irreversibly Sickled Cell"

March 6, 1996	Invited Plenary Speaker, 21st Annual Meeting of the National Sickle Cell Program, Mobile, AL, "The Role of the Membrane Skeleton in Formation of the Irreversibly Sickled Cell"
August 27, 1996	Chair, Session entitled "Signal Transduction & Transcriptional Regulation III," 25th Meeting of the International Society for Experimental Hematology, New York, NY
August 27, 1996	"The Making and Breaking of the Irreversibly Sickled Cell," 25th Meeting of the International Society for Experimental Hematology, New York, NY, Abstract #713
October 4, 1996	Invited Speaker, 24th Annual Sickle Cell Association of America Convention, "How Red Blood Cells Become Sickle Cells," Little Rock, AR
October 9, 1996	Invited Speaker, Alabama Primary Health Care Association Meeting, "Advances in Research and Treatment of Sickle Cell Disease," Perdido Beach Resort, Orange Beach, AL
February 20, 1997	Invited Speaker, UAB Department of Cell Biology, "The Making and Breaking of the Irreversibly Sickled Cell"
January 27, 1998	Invited Speaker, Bishop State Community College, "Will NAC be an Effective Treatment for Sickle Cell Disease," Mobile, AL
June 11, 1998	Invited Speaker, 5. Membrane Skeleton. Regulatory Function in Normal and Abnormal Cells Conference – W. Mejbaum-Katzenellenbogen's Molecular Biology Seminar Series. "The Spectrin Membrane Skeleton: A Key Element in Sickle Cell Disease," Wroclaw-Szklarska Poreba, Poland
March 15, 1999	Keynote Speaker, French Society of Hematology Meeting, "New therapeutic approaches to sickle cell disease: targeting red blood cell membrane oxidative damage," Paris, France
February 18, 2000	Invited Speaker, UAB Department of Biochemistry and Molecular Genetics, "A Role for Spectrin in Synapse Transmission"
February 29, 2000	Invited Speaker, Bishop State Community College, "Finding a Cure for Sickle Cell Disease"
October 4, 2000	Invited Speaker, State University of New York, Upstate Medical University, College of Medicine. Cell and Developmental Biology Seminar Presentation: "Oxidative Stress and Sickle Cell Disease"
October 19, 2000	Invited Speaker, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Department of Pathology and Laboratory Medicine, "Erythrocyte Spectrin Is An E2 Ubiquitin Conjugating Enzyme"
November 13, 2000	Invited Speaker, University of Medicine and Dentistry of New Jersey, School of Osteopathic Medicine, "Oxidative Stress and Sickle Cell Disease"
March 15, 2001	Invited Speaker, University of Texas at Dallas, Department of Cell and Molecular Biology, "Oxidative Stress and Sickle Cell Disease"
April 23, 2001	Invited Speaker, U.T. Southwestern Medical School, "Oxidative Stress and Sickle Cell Disease"
May 14, 2001	Invited Speaker, University of Tennessee at Memphis, Department of Cell and Molecular Biology, "Oxidative Stress and Sickle Cell Disease"
May 23, 2002	Invited Speaker, Ohio State Medical School, Department of Molecular and Cellular Biochemistry, "The Cell Biology of Sickle Cell Disease"
October 4, 2002	Invited Speaker, NYS Institute for Basic Research in Developmental Disabilities,

	"Spectrin Ubiquitination: Role in Sickle Cell and Neurologic Diseases"
November 6, 2002	Invited Speaker, University of Texas Medical School at Galveston, "The Cell Biology of Sickle Cell Disease"
February 8, 2003	Organizer, Thermo Finnigan Symposium on "The Cytoskeleton and Human Disease" AACBNC meeting in Panama, "The Sickle Cell Membrane Skeleton"
May 27, 2003	"Sickle Cell Disease," 4th to 8th grade classes, West Dallas Community School
January 17, 2004	Organizer, Thermo Electron/Amersham Biosciences Symposium on "New Age Proteomics" AACBNC Meeting, Key West, Fl
June 6, 2004	Invited Speaker, Emerging Pathways in Cytoskeletal Communication meeting, Umea, Sweden, "The Human Erythrocyte Proteome"
July 15, 2004	"The Molecular Basis of Sickle Cell Severity," University of Texas Medical Branch at Galveston
October 25-26, 2004	Invited Speaker, Center of Biotechnology at the Technologico de Monterrey, Mexico, "The Molecular Basis of Sickle Cell Severity"
March 7-9, 2005	"The Molecular and Cellular Determinants of Sickle Cell Severity," Texas A&M University in College Station, TX
March 25, 2005	Guest Lecturer, Texas A&M Health Sciences Center Baylor School of Dentistry, "The Molecular and Cellular Determinants of Sickle Cell Severity"
April 4, 2005	Co-organizer, Symposium on Physiologic Proteomics, Experimental Biology Meetings in San Diego, Presentation on "Proteomics of Sickle Cell Disease"
June 12, 2005	Invited Speaker, Red Cell Gordon Conference, Tilton, NH, "The Proteomics of Sickle Cell Disease"
March 13, 2006	Guest Seminar, U. Louisiana at Monroe, "The Proteomics of Sickle Cell Severity"
March 14, 2006	Guest Seminar, Louisiana Tech University, "The Proteomics of Sickle Cell Severity"
March 23, 2006	Guest Seminar, U.C. Davis Health Science Center, "Understanding Sickle Cell Severity: A Proteomic Approach"
April 20, 2006	Guest Seminar, UNT Health Science Center, "Sickle Cell Severity: A Proteomics Approach"
April 30, 2006	Organizer and Chair, "New Functions of the Spectrin Membrane Skeleton" Symposium, 2006 Experimental Biology Meeting, San Diego, CA
May 10, 2006	"IBMST" University of Oklahoma at Norman and Oklahoma State University
September 27, 2006	Invited Speaker "Sickle Cell 101," Annual Meeting of the SCDAA in Dallas, TX
December 6, 2006	Led a Dallas delegation to the Technion in Haifa, Israel. Invited lecture, Bruce and Ruth Rappapport School of Medicine, "Biochemical and Proteomic Approaches to Development of an Understanding of Sickle Cell Severity"
January 9-11, 2007	Hosted a delegation from the Technion including President Yitzhak Apeloig, Nobel Laureate Aaron Ciechanover and Director of the Nanotech Institute Uri Sivan. On January 11, 2007, ran the UTD/Technion Symposium on Nanotechnology and the Life Sciences
February 15, 2007	Guest Seminar, University of Puerto Rico School of Medicine entitled "A Molecular

	Understanding of Sickle Cell Severity"
March 17, 2007	Invited Speaker, AAMC CAS Annual meeting, "What value is there in medical students understanding proteomics?"
April 13, 2007	Invited Speaker, Britton Chance Center for Biomedical Photonics of the Wuhan National Laboratory for Optoelectronics, Wuhan, China, "Publication Trends in 21st Century Biotechnology"
April 17, 2007	Invited Speaker, Oklahoma State University, "The future of a Biochemistry and Molecular Biology Department in the Land Grant System"
January 7, 2008	Participated in the Inauguration Ceremony for the Asian Office for the Society of Experimental Biology and Medicine (SEBM) and its journal Experimental Biology and Medicine at the National Cheng Kung University in Tainan, Taiwan, Invited lecture on "The Proteomics of Sickle Cell Disease"
January 28, 2008	Invited Speaker, Texas State University, "Understanding Sickle Cell Severity"
April 6, 2008	Invited Speaker, EB SEBM Symposium, "Pharmaco-proteomic Approaches towards Understanding The Mechanisms And Side Effects Of Sickle Cell Drug Therapy"
April 28, 2008	Invited Speaker, SUNY Upstate Medical University, "Sickle Cell Disease: Beyond Hemoglobin S"
July 2, 2008	Inaugurated the EBM European Office at King's College London, "Sickle Cell Disease: Beyond Hemoglobin S"
November 24, 2008	Invited Speaker, "Signatures of Sickle Cell Severity: A Proteomic Approach" 7th International Conference on Photonics and Imaging in Biology and Medicine, Wuhan, P.R. China
March 26, 2009	Invited Speaker, Veterans Administration Medical Center, Syracuse, NY, "Proteomic Approaches to Personalized Medicine for Sickle Cell Disease"
June 4, 2009	Invited Speaker, Association of Academic Health Centers, Executive Leadership Group for Vice Presidents for Research, "The Economic Impact of Research at Academic Health Centers," Doubletree Hotel, Washington DC
August 28, 2009	Invited Speaker, 2nd Annual Syracuse Biomaterials Institute (SBI) Offsite Meeting, "The Goal of Personalized Medicine for Sickle Cell Disease: Basic and Translational Research Approaches," Renaissance Hotel, Syracuse, NY
October 2, 2009	Visiting Scholar, Robert Wesleyan College, Rochester, NY, "Understanding Sickle Cell Severity"
February 16, 2010	Invited Speaker, Syracuse University Student Forum, Life Sciences Building, Syracuse, NY, "Sickle Cell Disease"
November 11, 2010	Invited Speaker, Welch Allyn, Skaneateles, NY, "Upstate's Research Expansion"
February 19, 2011	Keynote Speaker, Syracuse University, Syracuse, NY, "Sickle Cell Disease"
March 9, 2011	Invited Speaker, Leadership Greater Syracuse, "The Health Legacy That We Leave Our Children Will Be Determined By Our Support of Research Today"
December 5, 2011	Invited Speaker Lehman-CUNY, New York, "The Goal of Personalized Medicine for Sickle Cell Disease".
February 21, 2012	Invited Speaker, University of Buffalo, Buffalo, NY, "A Proteomic Approach to Personalized

Medicine for Sickle Cell Disease"

October 11, 2012 Invited Panelist, "Innovative Aging Symposium on Industry," Menorah Park, Syracuse, NY

November 11, 2012 Keynote Speaker, International Symposium on Infectious Diseases and Signal Transduction, National Cheng Kung University, Tainan, Taiwan, "The Proteomics and Interactomics of Sickle Cell Disease".

November 12, 2012 Invited Speaker, Taipei Medical University, Taipei, Taiwan, "The Proteomics and Interactomics of Sickle Cell Disease"

January 11, 2013 Invited Speaker, Clarkson University, Potsdam, NY, "The Proteomics and Interactomics of Sickle Cell Disease"

February 12, 2013 Invited Panelist, Lupus and Sickle Cell Panel, Syracuse University

March 13, 2013 Invited Speaker, TACNY Sweet Lecture Lecture Series, SUNY ESF, Syracuse, "Building Successful Research Partnerships: The Story of the Hill, SUNY Reach, and IIBMST Collaborations"

Internal Seminars

M.S. Hershey Medical Center

November 26, 1979 "Investigation of a possible cytoskeleton membrane protein abnormality in hereditary spherocytosis" (joint conference with Harrisburg Hospital Hematology Section)

May 5, 1980 "Spectrin-membrane interactions," M.S. Hershey Medical Center, Physiology Department

July 14, 1980 "Hemolytic Anemias: research advances," Department of Medicine Grand Rounds

November 17, 1980 "Occurrence of Spectrin in Nonerythroid Cells," Physiology Department

April 1, 1981 "Spectrin and the abnormality in hereditary spherocytosis," Hematology Department

April 26, 1982 "Identification of the Molecular Defect in the Erythrocyte Membrane Skeleton in Hereditary Spherocytosis," Physiology Department

February 13, 1983 "Brain Spectrin: Structure, Localization, and Function," Physiology Department

November 21, 1983 "Congenital Non-Spherocytic Hemolytic Anemia Due to a Previously Unrecognized Defect of the Red Cell Cytoskeleton," Hematology Department

January 14, 1985 "The Human Erythrocyte Spectrin Membrane Skeleton," Cell & Molecular Biology Center

January 18, 1985 "The Molecular Basis of Hereditary Spherocytosis," Pharmacology Department

April 3, 1985 "Brain Spectrin: Structure, Function and Localization," Cell & Molecular Biology Center

June 4, 1985 "Brain Protein 4.1: Identification, Structure Function, and Location of a Spectrin Binding Protein," Neuroscience Center

June 10, 1985 "Expression of Spectrin and Related Protein in Developing Mammalian Brain," Biological Chemistry Department

February 10, 1986 "Hereditary Elliptocytosis," Hematology Department

March 3, 1986 "Brain Spectrin: New Insights," Physiology Department

October 29, 1986 "Spectrin: The Journey From Red Cell to Synapse," Cell & Molecular Biology Center

USA College of Medicine

June 10, 1989	"Molecular Basis of Synaptic Transmission," Neuroscience Group
February 22, 1990	"The identification and Sequence of the Actin-Binding Domain of Human RBC β Spectrin," Physiology Department
May 29, 1990	"The Molecular Basis of the Spectrin-Actin Interaction," Structural & Cellular Biology Department
May 4, 1993	"The Molecular Basis of the Irreversibly Sickle Cell," Structural & Cellular Biology Department
November 1, 1994	"Reversing the Irreversibly Sickled Cell," Structural & Cellular Biology Department
November 2, 1995	Sickle Cell Educator Certification Program, "Research Update," Structural & Cellular Biology Department
January 2, 1996	Sickle Cell Basic Science Research Meeting, "The Molecular Defect(s) within the Spectrin Membrane Skeleton of Irreversibly Sickled Cells," Structural & Cellular Biology Department
January 10, 1996	Hematology/Oncology Lecture, "Structure and Function of Red Cell Membranes," Structural & Cellular Biology Department
April 10, 1996	Sickle Cell Educator Certification Program, "Research Update," Structural & Cellular Biology Department
May 7, 1996	Sickle Cell Basic Science Research Meeting, "The Molecular Defect(s) within the Spectrin Membrane Skeleton of Irreversibly Sickled Cells," Structural & Cellular Biology Department
June 6, 1996	Sickle Cell Clinical/Psychosocial Meeting, "N-acetyl Cysteine: A Potential Therapy in Vaso-occlusive Crisis," Structural & Cellular Biology Department
March 18, 1997	"The Making and Breaking of the Irreversibly Sickled Cell," Structural & Cellular Biology Department
January 8, 1998	"Will NAC be an Effective Treatment for Sickle Cell Disease?" Medicine Department
January 20, 1998	Sickle Cell Basic Science Research Meeting, "The Molecular Defect(s) within the Spectrin Membrane Skeleton of Irreversibly Sickled Cells," Structural & Cellular Biology Department
March 20, 1998	"The Membrane Skeleton of Normal and Abnormal Erythrocytes," Surgery Department
April 29, 1999	"Spectrin: An Essential Role in Synaptic Transmission," Physiology Department
October 12, 1999	"Spectrin and Synaptic Transmission," Structural & Cellular Biology Department

University of South Alabama Sigma Xi Distinguished Lecture

May 10, 1995	"Reversing the Irreversibly Sickled Cell"

UT Dallas

January 10, 2002	Opening Ceremonies of the UT Dallas Sickle Cell Disease Research Center – "Molecular Basis of the Irreversibly Sickled Cell"

November 2, 2002 UTD Alumni Day Presentation – "Sickle Cell Disease Research"

April 4, 2003 2003 Library Lecture Series – "The Sickle Cell Membrane Skeleton"

March 19, 2005 UTD Scholar's Weekend Presentation – "Sickle Cell Disease: The Basis for Its Severity"

UT Southwestern Medical Center

March 16, 2004 Presented "The Molecular Basis of the Irreversibly Sickled Cell" at Pediatric Grand Rounds

April 26, 2007 "The Molecular Basis of the ISC and SC Severity"

SUNY Upstate Medical University

September 4, 2008 "A Proteomic View of Vasoocclusive Episodes in Sickle Cell Disease," 8th Annual Biomedical Sciences Retreat

November 5, 2008 "How to Prepare for Graduate School," College of Health Professions

April 10, 2009 "Proteomics," College of Health Professions, Masters Med Tech and Senior Biotechnology Students

July 22, 2009 "The Goal of Personalized Medicine for Sickle Cell Disease: Basic and Translational Research Approaches," Biochemistry & Molecular Biology

October 7, 2009 "Tutorial: Publishing Your Manuscript," College of Graduate Studies, Postdocs & MD/PhD Students

November 19, 2009 "Sickle Cell Disease: The Goal of Personalized Medicine," Regional Oncology Center

April 9, 2010 "Mass Spectrometry and Proteomics," College of Health Professions, Masters Med Tech and Senior Biotechnology Students

October 27, 2010 "Proteasomes in Mature RBCs? Yes Indeed," Biochemistry & Molecular Biology

April 8, 2011 "Proteomics and Mass Spectrometry," College of Health Professions, Med T522, Advanced Microbiology & Immunology

April 13, 2012 "Proteomics and Mass Spectrometry," College of Health Professions, MedT522, Advanced Microbiology & Immunology

May 21,2012 "The CNY BRC – CNY New Bio-incubator and Business Accelerator," 2012 CNY Biotechnology Symposium, Oncenter Complex, Syracuse, NY

October 3, 2012 "Building Successful Research Partnerships: The Story of the Hill, SUNY Reach and IIBMST Collaborations", Deans' Grand Rounds

October 18, 2012 "Sickle Cell Presentation" College of Medicine 1st year medical students

Advising Responsibilities:

Medical Students' (*Hershey*) Research Projects

1. Jeffrey L. Ettinger (1981)
2. Ellyn McIntosh (1984)
3. Theresa Laskiewicz (1984) First Place – Student Research Symposium
4. Jason Greenberg (1984-1984) NIHRSA
5. Bernadine Moglia (1984-1985) NIHRSA

Medical Students' (*USA*) Research Projects

1. Chris Heuerman, Summer Research Project (1992)
2. Bart Scott, MD/Ph.D. Candidate (1992)
3. Dwight Yoder, Summer Research Project (1993)
4. Sherry Morgan, Summer Research Project (1993)
5. Ken Shermer, Summer Research Project (1993)
6. Willard Korn, Summer Research Project (1994 and 1995)
7. Jonah McIntyre, Summer Research Project (1996 and 1997)
8. Aprile Brown, Summer Research Project (1998)

Graduate Students' (*Hershey*) Trained

1. Dr. Joseph Kesselring
   Physician
   168 Madison Court
   Holland, PA 18966
   Human erythrocyte cytoskeletal protein band 4.1- its isolation, purification, and function (1981)

2. Dr. Kathleen Shiffer
   Research Scientist
   San Francisco, CA
   The characterization of protein 4-1's interaction with human erythrocyte membrane (1984)

3. Dr. Anne Karinch
   Research Faculty
   M.S. Hershey Medical Center
   Hershey, PA 17033
   The identification and partial purification of the actin-binding domain of human erythrocyte spectrin (1989)

Graduate Students (*USA*) Trained

1. Yupo Ma
   Professor
   Department of Pathology
   SUNY Stony Brook College of Medicine
   Cloning and sequencing of the β subunit of brain
   Postdoctoral Fellow spectrin (240/235E) (1993)

Graduate Students (*UT Dallas*) Trained

1. Mahnoush Riahi
   Ubiquitination and Spectrin dimer nucleation
   MS degree May 2004

2. Swati Ghatpande
   Ubiquitination and Spectrin-4.1- actin ternary complex Formation
   Postdoctoral Fellow at UT Southwestern Medical Center
   MS degree December 2003
   PhD

3. Rashmi Mishra
   Ubiquitination and the Spectrin-Adducin-Actin
   Completed MS degree May 2004

4. Jessica Yu-Jung Hsu
   Site directed mutagenesis of αSpI, E2, E3 and target sites
   PhD December 2004
   Postdoctoral Fellow at Harvard Medical School
   Sponsor Dr. Stu Orkin

5. Tsui-Ling Chang
   Identification of targets for spectrin's E2 activity

PhD December 2004
Postdoctoral Fellow at UT Southwestern Medical Center

6. Jose Chou
   clCAT/nLC/MS/MS of severe versus mild SS membrane skeletons
   MS Degree 2006

7. Jennie HaLuong
   Proteomics of Sickle Cell Severity (2005)

8. Karis Hughes
   Preparation of reticulocyte free RBCs for Proteomics
   MS Degree 2006

9. Yung-Chia (Gena) Hao
   Proteomics of Sickle Cell Severity
   Protein profiling of RBC cytosol by 2D DIGE technique (2004-2006)

10. Deepa Shenoy
    Protein profiling of plasma by the 2D DIGE technique (2004)

11. Diane Varghese
    Proteomics of Sickle Cell Severity
    Protein Profiling of RBC Cytosol by ICAT Technology
    MS Degree 2006

12. Satish Nandakumar
    Proteomics of Sickle Cell Disease
    Protein Profiling of Plasma by 2D DIGE (2005-2006)

13. Anas Ismail
    Alpha Spectrin Chimeric E2/E3 Ubiquitin Ligase Activity (2004-2006)

14. Nathan Mackenroth
    Proteomics of Sickle Cell Severity
    Protein Profiling of plasma by ICAT Technology (2005-2006)

15. Sarmistha Sen
    Proteomics of Sickle Cell Severity
    Protein Profiling of RBC Membrane Protein by ICAT Technology (2004-2008)

16. Kamala Vanarsa
    Protein Profiling of RBC membranes by iTRAQ technology
    MS Degree 2008

17. Taruna Sharma
    Protein Profiling of reticulocyte membranes by 2D DIGE technology (2006-2008)

Graduate Students (*SUNY Upstate Medical University*) Trained

1. Sudha Neelam, PhD
   Function of RBC Proteasomes (2004-2011)
   Post doctoral Fellow in the Laboratory of Dr. Bill Kerr, Upstate Medical University

2. Onecia Hannibal, MA
   Post-Translational Modification of Alpha Spectrin Cysteines in Control and Sickle Cell Erythrocytes (2012-2013)
   Medical Student, SUNY Upstate Medical University

Postdoctoral Fellows (*Hershey*) Trained

1. Dr. Reidar Wallin
   Associate Professor
   Department of Medicine
   Bowman Grey School of Medicine
   Wake Forest University
   Winston-Salem, North Carolina 27103
   Structure of RBC Ankyrin (1983-1984)

2. Dr. Ram Sihag
   Assistant Professor
   Molecular Neuroscience Laboratory
   McLean Hospital
   Harvard Medical School
   Belmont, MA 02178
   Isolation and Characterization Protein 4.1 (1984-1985)

3. Dr. Keith Krebs
   Staff Scientist
   Biophysical Laboratory
   NIH, Bethesda, MD
   Studies on Amelin, Synapsin I and RBC Protein 4.1 (1984-1988)

4. Dr. Beat Riederer
   Professor
   Universite de Lausanne
   1005 Lausanne Switzerland
   Studies on Brain Spectrin Isoforms (1984-1988)

Postdoctoral Fellows (*USA*) Trained

1. Dr. Aleksander Sikorski
   Professor (1988-1990)
   University of Wroclaw (1997-1998)
   Institute of Biochemistry
   Ul. Tamka 2
   50-137 Wroclaw, Poland
   Interaction of Brain Spectrin with Synaptic Vesicles

2. Dr. Warren Zimmer
   Professor
   Department of Physiology
   Texas A&M University
   Cloning and Sequencing of Brain Amelin (1989-1990)

3. Dr. Grzegorz Terlecki
   Professor
   University of Wroclaw
   Medical School of Wroclaw
   Department of Biochemistry
   Chalubinskiego 10
   50-368 Wroclaw, Poland
   Interaction of Spectrin with Insulin-Containing-Granules (1990-1992)

4. Dr. Archil Shartava
   Research Assistant Professor
   The Sickle Cell Membrane Skeleton (1991-2000)

5. Dr. Mary Blair Clark
   Research Assistant Professor

Role of Spectrin-bound Heme in Neuronal Function (1992-1996)

6. Dr. Zari Aliabadi
   Research Assistant Professor
   The Molecular Basis of Sickle Cell Anemia (1992-1996)

7. Dr. Jose Sangerman
   Assistant Professor
   Yale University
   The Synthesis, Assembly, and Turnover of Spectrin Subunits in Hippocampal Neurons (1997-2001)

8. Dr. Susan Xu
   Associate Professor
   Localization of the Synaptic Vesicle Binding Domain with Brain Spectrin (1997-1998)

9. Dr. David Kakhniashvili
   Research Associate
   Ubiquitination of α Spectrin (1998-2001)

Postdoctoral Fellows (*UT Dallas*) Trained

1. Dr. David Kakhniashvili
   Laboratory Manager
   Proteomics of Spectrin Ubiquitination (2001-2008)

2. Dr. Jose Sangerman
   Proteomics of Globin Transcription Factors (2004-2005)

3. Dr. Anita Hryniewicz-Jankowska
   Professor
   University of Wroclaw
   Protein Profiling on Monocyte Protein from Patients of Varying Sickle Cell Severity Studied by 2D DIGE and MS/MS

Thesis Committees (SUNY Upstate)

Tatyana Fedetova (major Professor Richard Wojcikiewicz, PhD) 2010-2013

Course Taught (*Hershey*)

Human Physiology, 705
- Blood Composition
- Blood Clotting

Neurophysiology, 797
- Cell Membrane
- Membrane Transport
- Muscle Biochemistry
- Muscle Mechanics

Physiology Laboratory, 523
- Lipolysis Laboratory

Advanced Topics, 597
- Membrane Structure and Function

Graduate Cell Biology, 540
Course Director
- Membrane Structure

- Membrane Asymmetry
- Membrane Dynamics
- Membrane Transport
- Spectrin Membrane Skeleton
- Microfilaments
- Intermediate Filaments
- Microtubule

Courses Taught (*USA*)

Medical Histology, GMS510
Course Director 1999-2001

- Cell Structure and Function
- Muscle I
- Muscle II
- Membranes I
- Membranes II
- Cytoskeleton I
- Cytoskeleton II
- rER
- Golgi & Lysosomes
- Mitochondria & Peroxisomes

Cell Biology, GMS509
Course Director 1989-2001

- How Cells are Studied I
- How Cells are Studied II
- The Birth, Assembly, and Death of Proteins
- Membrane Structure
- The Spectrin Membrane, Skeleton-Erythroid
- The Spectrin Membrane, Skeleton-Nonerythroid
- Actin Microfilaments-Muscle
- Actin Microfilaments-Nonmuscle
- Microtubules I
- Microtubules II
- Intermediate Filaments

Cytoskeleton & Membranes, GMS612
Course Director

- Erythrocyte Spectrin Membrane Skeleton
- RBC Spectrin: Structure
- RBC Spectrin: Interactions
- RBC Protein 4.1: Structure
- RBC Protein 4.1: Interactions
- RBC Adducin and Calmodulin
- RBC Actin, Tropomyosin, Myosin, Protein 4.9
- RBC Ankyrin: Structure
- RBC Ankyrin: Interactions
- RBC Band 3: Ankyrin Attachment
- Glycophorins: Which is the 4.1 attachment site?
- Synthesis, Assembly and Turnover of the Spectrin Membrane Skeleton
- Discovery of Nonerythroid Spectrin
- Brain Spectrin Structure
- Brain Spectrin Isoforms
- Brain Spectrin: Interactions: Calmodulin, Actin, Ankyrin, Adducin
- Amelin (Brain Protein 4.1) and Synapsin
- Suggested Functions of Brain Spectrin

BEAR Program
Molecular & Cellular Biology
Course Director

- Membrane Structure
- Membrane Transport
- Microfilaments
- The Spectrin Membrane Skeleton
- Intermediate Filaments
- ER-Roles in Protein & Lipid Synthesis
- Golgi-Posttranslational Modification & Sorting of Protein and Lipid
- Exocytosis & Endocytosis
- Mitochondria & Peroxisome Morphogenesis & Function

Courses Taught (*UT Dallas*)

Biochemistry I, BIO 3361
Course Director 2002

- Introduction, Weak Interactions
- Water: Acid/Base Properties
- Amino Acids
- Protein Primary Structure
- Protein Secondary Structure
- Protein Tertiary & Quaternary Structure
- Enzyme Purification
- Enzyme Kinetics
- Inhibition Kinetics
- Enzyme Regulation
- Hemoglobin & Sickle Cell Disease
- Mechanisms of Enzyme Actions
- Coenzymes

Graduate Cell Biology, BIO 5440

- Spectrin Membrane Skeleton
- Actin/Myosin in Muscle
- Nonmuscle Actin
- Intermediate Filaments
- Microtubules
- Membrane Structure
- Membrane Transport
- Membrane Biogenesis
- Membrane Targeting

Eukaryotic Molecular and Cell Biology, BIO 3302

Proteomics, BIO 6V29-BIO 4V40 002

Biotechnology Laboratory Course BIOL 5384

Courses Taught (*SUNY Upstate Medical University*)

Advanced Microbiology & Immunology, MEDT522

- Proteomics and Mass Spectrometry

Molecular & Cellular Principles of Medicine, MCP101

- Clinical Correlation on Sickle Cell Disease
- Sickle Cell Disease: Clinical Correlation
- The Goal of Personalized Medicine for Sickle Cell Disease: Basic and Translational Research Approaches

Research Opportunities Course, GS604
Course Coordinator

Responsible Conduct of Scientific Research I and II, GS618 and GS619
- Authorship and Peer Review
- Research Misconduct

Systems Biology of Genetics, Genomics and Proteomics, GS628
- The Proteome
- Overview of Analytical Proteomics
- Protein Sequence Analysis by Tandem Mass Spectrometry
- Protein Identification with Tandem Mass Spectrometry Data
- Mining Proteomes
- Protein Expression Profiling
- Identifying Protein-Protein Interactions & Protein Complexes
- Mapping Protein Modifications

National Medical School Review
- Taught entire course in Cell Biology over 16-18 hours

Service at the University of South Alabama

Basic Medical Sciences Graduate Program (Director)	1993-1994
Biochemistry Chair Search Committee (Member)	1990-1991
Biotechnical Core Advisory Committee (Member)	1995-1998
Cell & Molecular Biology Committee (Chair)	1989-1992
Curriculum Committee (Member)	1989-1990
Dean Search Committee (Member)	1990
Executive Council (Member)	1988-2001
Faculty Assembly (President)	1990-1991
Faculty Senate (Member)	1991-1994
Graduate Admission Committee (Member)	1990-2001
Graduate Bylaws Subcommittee (Chair)	1990
Graduate Executive Committee (Chair)	1998-1999
Graduate Executive Committee (Chair)	1993-1994
Graduate Executive Committee (Member)	1988-2001
LCME Self Study Research Subcommittee (Chair)	1994-1995
Mass Spectrometry and Protein Structure Core	1995-1998
Medical Admissions Committee (Chair)	1992-1993
Medical Admissions Committee (Member)	1990-1993
Research Advisory Committee (Chair)	1989-2001
Research Organization and Performance Evaluation (ROPE)Task Force (Member)	2000-2001
S. Alabama Medical Sci. Found. (Board Member)	1988-1998
S. Alabama Medical Sci. Found. (Secretary)	1998-2001
S. Alabama Medical Sci. Found. Advisory Committee (Chair)	2000-2001
Student Visitation Day and Research Forum Committee	1995-1997
Task Force on Biotechnical Services (Chair)	1994
USA Comprehensive Sickle Cell Center (Director)	1993-2001
USA Vice President for Academic Affairs Search Committee (Member)	1995

Service at UT Dallas

Biochemistry Curriculum Committee (Member)	2001-2008
Campus Facilities Oversight Committee (Member)	2001-2008
Department of Molecular and Cell Biology (Head)	2001-2003
Institute of Biomedical Sciences and Technology (Director)	2003-2006
Institutional Review Board (IRB) (Vice Chair)	2001-2004
MCB Graduate Education Committee (Member)	2007
Mid Probationary Review Committee (Member)	2001-2008

School Council (Member)	2001-2008
Technion-UTD Alliance Committee (Chair)	2006-2008
UTD Sickle Cell Disease Research Center (Director)	2001-2004

Service at SUNY Upstate Medical University
Vice President for Research Committees (Internal)

Cancer Cabinet (Member)	2010-2013
Chancellor's Award for Excellence in Scholarship and Creative Activities	2011
Chancellor's Award Nominating Committee (Member)	2008-Present
College of Medicine Department Chairs Committee (Member)	2011-2013
College of Medicine Executive Committee (Member)	2008-2009
Confocal/Two Photon Imaging Research Core Advisory Committee (Ex Officio Member)	2008-2013
Dean's Leadership Team (Member)	2008-2013
DNA Sequencing Research Core Advisory Committee (Ex Officio Member)	2008-2013
Enterprise Strategic Planning Committee (Member)	2008-2013
Flow Cytometer Research Core Advisory Committee (Ex Officio Member)	2008-2010
Full Faculty Effort Committee (Member)	2012-2013
Industry Steering Committee (Member) and Task Force on Research (Chair)	2008-2009
Institutional Patent Committee (Ex Officio Member)	2008-Present
Institutional Space Committee (Ex Officio Member)	2008-Present
Jacobsen Scholar Award Committee (Chair)	2008-2009
LCME Self-Study Committee on Research and Graduate Education (Chair)	2008-2013
LCME Self-Study Steering Committee (Member)	2008-2013
Leadership Council (Member)	2008-2013
Middle States Self Study Steering Committee (Member)	2008-2009
Proteomics Research Core Advisory Committee (Ex Officio Member)	2009-Present
REGELT (Research & Graduate Education Leadership Team) (Chair)	2009-2013
Research Conflict of Interest Committee (Member)	2010-2013
Research Integrity Officer	2008-2011
Research Steering Committee (Chair)	2008-2013
Research Strategic Planning Subcommittee (Chair)	2008-2013
Senior VP and Dean, College of Medicine Search Committee (Member)	2011-2013
Upstate Council (Member)	2008-2013
Upstate Foundation Board of Directors (Ex Officio Member)	2008-2013
Upstate/Welch Allyn Committee (Member)	2012-Present

Service at SUNY Upstate Medical University
Vice President for Research Committees (External)

Advisory Council re: Technology Transfer to Taskforce on Diversifying the New York State Economy through Industry-Higher Education Partnerships (Member)	2009-2013
ARRA (Research Resilience Through Multidimensional Mentoring) Pathfinder Grant Group (Member)	2010-present
Association of Academic Health Centers (AAHC) Vice Presidents for Research Group (Member)	2008-2013
Central New York Biotechnology Research Center Board of Directors (Co-Chair)	2008-2012
CNY Biotech Accelerator Steering Committee (Member)	2012-Present
Executive Committee, International Institute for Biomedical Sciences & Technology (IIBMST) (Chair)	2009-2013
Jewish Federation Board of Directors (Member)	2011-Present
MedTech Science & Technology Committee (Member)	2008-Present
SUNY Global Advisory Council (Member)	2010-Present
SUNY Reach (Executive Director)	2009-2013
SUNY Research Allocation Model Subcommittee (Member)	2010-2013
SUNY Research Foundation Campus Research Officers (Member)	2011-2013
SUNY Vice Presidents for Research (Member)	2008-2013
SUNY Vice Presidents for Research, Strategic Planning Task Force (Member)	2008-2013
Syracuse Center of Excellence Board Development Task Force (Member)	2009-Present
Syracuse Center of Excellence Board of Directors (Member)	2008-Present
UNYTE Executive Committee (Member)	2009-Present
Veterans Administration Medical Center, Chief of Research Search Committee (Chair)	2008-2009

Veterans Administration Medical Center, Dean's Committee (Member)	2010-2013
Vice Presidents for Research (VPR) Hill Collaboration Group (Member)	2011-2013

Service at SUNY Upstate Medical University
Dean, College of Graduate Studies

Academic Council (Member)	2008-2009
Admissions/Recruitment Committee (Ex Officio Member)	2008-2013
Advising Committee (Ex Officio Member)	2008-2013
Career Development Committee (Chair)	2012-Present
Council of the Faculty Organization (Member)	2008-2013
Council of Graduate Schools (Member)	2008-2013
Curriculum Committee (Ex Officio Member)	2008-2013
Dean's Council (Member)	2008-2009
Elections Committee (Ex Officio Member)	2008-2013
Evaluations Committee (Ex Officio Member)	2008-2009
Graduate Council (Chair)	2008-2013
Graduate Faculty Organization (Member)	2008-Present
Postdoctoral Affairs Steering Committee (Ex Officio Member)	2009-2013
President's Student Excellence Learning Committee (Member)	2011-Present
President's Student Experience Steering Committee (Member)	2011-Present
Rules & Regulations Committee (Ex Officio Member)	2009-2013
Scholarship Funding Committee (Member)	2011-2013
Strategic Enrollment Committee (Member)	2008-2013
Student Research Day Committee (Co-Chair)	2008-2013

Research Support:

Current

- NIH Grant with University of Rochester, Research Resilience through Multidimensional Mentoring, Dr. Steven Goodman (PI, subcontract), 09/30/10 – 09/29/13, $289,527 (TC), $93,671 (Current Year).

Pending

- NIH application- New Pathways of Discovery in RBC Disorders, Multi-PI (Dr Steven R. Goodman and Dr. Diana Gilligan), 4/01/14-3/31/17, Annually $224,665 (DC), $91,509 (IDC), $302,820 (TC), Total Grant Period $908,460 (TC).

Past

Principal Investigator

- NIH Grant. Sickle Cell Disease Research Center (SCDRC) Summer Institute/Mentoring Program (Dr. Betty Pace, PI) (Dr. Steven R. Goodman, Co-I), 09/15/06 – 06/30/10, $966,600 (TC).
- NIH Sickle Cell Center Grant HL070588 Project 1 Disregulation of the Sickle Cell Skeleton (Dr. Goodman, PI), 04/01/03 – 08/31/08, $1,110,000 (TC).
- DOD Interdisciplinary Studies on the Combat Readiness and Health Issues Faced by Military Personnel USAMRMC #W81XWH-07-1-0492 (Dr. Steven Goodman, PI) 07/01/07 – 09/31/08, $1,600,000. Steven R. Goodman, Project Head for Project 2 entitled "Ubiquitination of Proteins in the Normal and Pathological Brain."
- ORI-AAMC Grant Nobel Round-table Discussion on the Impact of Large Interdisciplinary & Inter-institutional Consortia on Conflict of Interest & Scientific Misconduct (Dr. Steven R. Goodman, PI), 06/01/05 – 01/22/06, $10,000 (TC).
- Comprehensive Sickle Cell Center, NIH Grant 3P60 HL38639, 04/01/98 – 03/31/03, (Dr. Steven R. Goodman, PI), $6,326,657 (TC).
- Federal Initiative, MIRROR Program 2003 (Dr. Steven R. Goodman, Project Director) $550,000
- NIH Grant NS19357, Spectrin-like Proteins in Brain. (Dr. Steven Goodman, PI), 04/01/83 – 03/31/96, $1,635,335 (DC), $402,822 (IDC), $2,038,157 (TC).
- NIH Grant NS26536, Structure, Location and Function of Brain Amelin, (Dr. Steven Goodman, PI), 01/01/89 – 07/31/94, $560,129 (DC), $263,270 (IDC), $823,399 (TC).
- ADA Grant, Spectrin & The Regulation of Insulin Secretion. (Dr. Steven Goodman, PI), 07/01/91 – 06/30/92, $80,000 (DC).

- NIH Grant HL26059, Protein Interactions in the Human Erythrocyte Membrane, (Dr. Steven Goodman, PI), 08/01/80 – 07/31/89, $678,698 (DC), $318,706 (IDC), $996,804 (TC).
- NIH Postdoctoral Fellowship, F32HL0537, (Dr. Steven Goodman, PI), Dr. Daniel Branton (Sponsor) 06/01/77 – 05/31/79, $28,400 Total Grand Period.

Co-Investigator

- NIH Grant PO HL66299, 09/01/01 – 08/31/06 (Dr. Troy Stevens, PI), (Steven R. Goodman, Consultant) Calcium Inhibition of cAMP in Lung Permeability $1,460,000 (TC) $90,000 (Goodman Subcontract)
- NIH Grant RO1 HL60024, 07/01/02 – 06/30/06 (Dr. Troy Stevens, PI), (Steven R. Goodman, CoI) Store Operated Ca^{2+} Entry: Lung Endothelial Permeability - $1,079,626 (TC) $270,000 (Goodman Subcontract)
- NIH NCRR Grant RR95-003, Extramural Research Facilities Construction. (Dr. Christian Abee, PI), (Dr. Steven Goodman, CoI), 09/30/95 – 09/30/96, $2,235,514 (DC), $2,235,514 (TC)
- NIH Grant NS21246, Spectrin-like Protein in Developing Brain. (Dr. Ian Zagon, PI), (Dr. Steven Goodman, CoI), 07/01/84 – 06/30/92, $827,417 (DC), $388,886 (IDC), $1,216,303 (TC)
- American Health Assistance Foundation Alzheimer's Disease Research. (Dr. Gail A. Breen, PI), (Dr. Steven R. Goodman, CoI), Proteomics of the Oxidative Phosphorylation System in AD $100,000 (TC), $50,000 (Current Year)

Publications:

Patents

1. Novel Sickle Cell Anemia Treatment
   Approval Date: July 11, 2000
   US Pat. No. 6,087,398

Books Published

1. Medical Cell Biology, First Edition, editor Steven R. Goodman, Lippincott Publishing Co., Philadelphia, PA, 1993.
2. Medical Cell Biology, Second Edition, editor Steven R. Goodman, Lippincott-Raven Publishing Co., Philadelphia, PA, 1997.
3. Medical Cell Biology, Third Edition, editor Steven R. Goodman, Academic Press/Elsevier, Burlington, MA, 2008.

Book Chapters

1. Olson, R.E., R.K. Kipfer, J.J. Morrissey and S.R. Goodman, 1974. Function of vitamin K in prothrombin synthesis. Physiology and Biochemistry of Prothrombin Conversion, Chapter 4, p. 31-55, F.K. Schattauer Verlag Stuttgart, New York.

2. Goodman, S.R. and D. Branton, 1978. Spectrin binding and the control of membrane protein mobility. Progress in Clinical and Biological Research; Normal and Abnormal Red Cell Membranes, Vol. 30, p. 177-185, Alan R. Liss, Inc., New York.

3. Goodman, S.R., C. Prezyna and W. Clough, 1978. Identification and Partial purification of two EBV associated DNA polymerases. Oncogenesis and Herpesvirus, III G. de The, F. Rapp, and W. Henle ed. International Agency for Research Against Cancer, Lyon.

4. Goodman, S.R., K. Shiffer, D.B. Coleman, and C.F. Whitfield, 1984. Erythrocyte membrane skeletal protein 4.1: A brief review. The Red Cell: Sixth Ann Arbor Conference, Progress in Clinical and Biological Research Vol. 165, p. 415-439 (George J. Brewer, editor), Alan R. Liss, Inc., New York.

5. Whitfield, C.F., D.B. Coleman, M.M.B. Kay, K.A. Shiffer, J. Miller and S.R. Goodman, 1984. Characterization and interrelationships of the polypeptides of human red cell membrane zone 4.5. Erythrocyte Membranes 3: Recent Clinicaland Experimental Advances, Progress in Clinical and Biological Research Vol. 159, p. 31-45 (George J. Brewer, editor), Alan R. Liss, Inc., New York, NY.

6. Zimmer, W.E. and S.R. Goodman, 1990. Brain Spectrin. Encyclopedia Human Biol. (R. Dulbecco, Ed.) Academic Press, Vol. 2, p. 1-11.

7. Zimmer, W.E. and S.R. Goodman, 1996. Brain Spectrin. Encyclopedia Human Biol. (R. Dulbecco, Ed.) Academic Press, Vol. 3, B33: 1-13.

8. Goodman, S.R., 2002. Cell Biology. McGraw-Hill Encyclopedia of Science and Technology. 3:598-606.

9. Goodman, S.R., 2003. Brain Spectrin. Encyclopedia of Neuroscience, Elsevier Science, Third Edition.

10. Joiner, C.H. and S.R. Goodman, 2007. Damage to the RBC Membrane in Sickle Cell Disease. Pg Renaissance of Sickle Cell Disease Research in the Genome Era, Betty Pace, Ed., Imperial College Press, UK.

11. Goodman, S.R., 2007. Cell Biology. McGraw-Hill Encyclopedia of Science and Technology. Available online.

Articles Published:

Review Articles

1. Goodman, S.R. and K.A. Shiffer, 1983. The spectrin membrane skeleton of normal and abnormal human erythrocytes: a review. Am. J. Physiol: Cell Physiol. 244:C121-C141.

2. Goodman, S.R. and I.S. Zagon, 1984. Brain spectrin: A review. Brain Res. Bul. 13:813-832.

3. Goodman, S.R. and I.S. Zagon, 1986. The neural cell spectrin skeleton: A review. Am. J. Physiol: Cell Physiol. 250:C347-C360.

4. Goodman, S.R., B.M. Riederer and I.S. Zagon, 1986. Spectrin subtypes in mammalian brain. Bioessays 5:25-29.

5. Krebs, K.E., I.S. Zagon, R.K. Sihag and S.R. Goodman, 1987. Brain protein 4.1 subtypes: A working hypothesis. BioEssays 6:274-279.

6. Goodman, S.R., K.E. Krebs, C.F. Whitfield, B.M. Riederer and I.S. Zagon, 1988. Spectrin and related molecules. CRC. Critical Rev Biochem. 23:171-234.

7. Goodman, S.R., W.E. Zimmer, M.B. Clark, I.S. Zagon, J.E. Barker and M.L. Bloom, 1995. Brain spectrin: of mice and men. Brain Res. Bul. 36:593-606.

8. Goodman, S.R., 1996. The Role of the Membrane Skeleton in Formation of the Irreversibly Sickle Cell: A Review. Cellular & Molecular Biology Letters 1:105-112.

9. Goodman, S.R., 1999. Discovery of Nonerythroid Spectrin to the Demonstration of its Key Role in Synaptic Transmission. Brain Res. Bull. 50(5/6):345-346.

10. Sangerman, J., D. Kakhniashvili, A. Brown, A. Shartava and S.R. Goodman, 2001. Spectrin Ubiquitination and Oxidative Stress: Potential Roles in Blood and Neurological Disorders. Cell Biol. Lett.6:607-636.

11. Goodman, S.R., 2004. The Irreversibly Sickled Cell: A Perspective. Cellular and Molecular Biology. 50:53-58.

12. Hsu, J. and S.R. Goodman, 2005. Spectrin and Ubiquitination: A Review. Cellular and Molecular Biology 51:OL801-OL807.

13. Goodman, S.R., A. Kurdia, L. Ammann, D. Kakhniashvili and O. Daescu, 2007. The Human Red Blood Cell Proteome and Interactome, Exp. Biol. & Med. 232:1391-1408.

14. Denman, B. and S.R. Goodman, 2011. Emerging and Neglected Tropical Diseases: Translational Applications of Proteomics. Exp. Biol. & Med. 236: 972-976.

15. Goodman, S.R, O. Daescu, D. Kakhniashvili, and M. Zivanic 2013. The Proteomics and Interactomics of Human Erythrocytes. Exp. Biol. & Med. In press.

Editorials

1. Goodman, S.R., Message from the New Editor-in-Chief. Exp. Biol. & Med. 231:1188, 2006
2. Goodman, S.R., The Alan. G. MacDiarmid Annual Award for Best Interdisciplinary Research Article. Exp. Biol. & Med. 232:845-846, 2007.
3. Goodman, S.R., Experimental Biology and Medicine Embraces our Scientific Colleagues in Asia. Exp. Biol. & Med. 232:1255-1257, 2007.
4. Goodman, S.R., EBM and SEBM Inaugurate a European Office: Dr. Farzin Farzaneh Named EBM European Editor. Exp. Biol. & Med. 223:777-778, 2008.
5. Goodman, S.R., Professor Huan-Yao Lei Appointed to the Newly Created Position of Asian Editor for Experimental Biology and Medicine. Exp. Biol. & Med. 233:1-2, 2008.
6. Goodman, S.R., The Experimental Biology and Medicine and Royal Society of Medicine Press Partnership. Exp. Biol. & Med. 235:1-2, 2010.
7. Goodman S.R., The Experimental Biology and Medicine's New Dual Submission Policy. Exp. Biol. & Med. 236:1-2, 2011.
8. Goodman S.R., I dedicate this issue of EBM to Professor Huan-Yao Lei. Exp. Biol. & Med. 237:471, 2012.
9. Goodman S.R, and R.T. Mallet, Plagiarism. Exp. Biol & Med. 237: 739, 2012.

Primary Research Articles

1974

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Revised: June 7, 2013