

CURRICULUM VITAE

05/20/2009

SHIRLEY E. PODUSLO, Ph.D.

Address: Medical College of Georgia
Institute of Molecular Medicine and Genetics
Department of Neurology
Augusta, GA 30912

Birthplace: Richeyville, Pennsylvania

Education:

1963 B.S. in Anatomy, Ohio State University, Columbus, OH
1976 M.A. in Anatomy, The Johns Hopkins University
1980 Ph.D. in Biochemistry, The Johns Hopkins University

Employment:

2003-present Research Biochemist, Augusta VA Medical Center
2001-present Professor, Medical College of Georgia
2001-2003 WOC, Augusta VA Medical Center
2003-present Medical College of Georgia Graduate Faculty
1990-2001 Professor with tenure
Director of Basic Research
Division of Neurology
Joint appointment - Department of Cell Biology and Anatomy;
Department of Biochemistry and Molecular Biology;
Department of Pharmacology
Texas Tech University Health Sciences Center, Lubbock, TX
1984-1990 Associate Professor, Department of Neurology
The Johns Hopkins University School of Medicine
1976-1984 Assistant Professor, Department of Neurology
The Johns Hopkins University School of Medicine
1973-1976 Assistant, Department of Neurology
The Johns Hopkins University School of Medicine
1970-1973 Assistant in Neurology
Albert Einstein College of Medicine, Bronx, NY
1964-1970 Research Assistant, Department of Neurology
Albert Einstein College of Medicine
1963 Clinical Laboratory Technician
Jersey City Medical Center, Jersey City,
1963 Biology Teacher
Woodbridge Senior High School, Woodbridge, NJ

Sabbatical Leave:

5/1/86-11/1/86 Dr. George Khoury, Advisor

Laboratory of Molecular Virology, National Cancer Institute
9/15/89-2/15/90 Dr. Steve J. O'Brien, Advisor
Laboratory of Viral Carcinogenesis, National Cancer Institute, Frederick, MD

Memberships:

Ordinary member of the American Society for Neurochemistry, July 1, 1972.
Member of the International Society for Neurochemistry, July 1, 1973.
Regular member of the Society for Neuroscience, 1975.
Member of the American Society for Cell Biology, 1979.
Member of Sigma Xi, 1980.
Member of the American Society of Biological Chemists, 1983.
Member of the American Society of Human Genetics, 1992.

RESEARCH SUPPORT

Funded Research:

Principal Investigator:

The KROC Foundation - Oligodendroglia: A Study of Its Surface Components
4/1/79-12/31/82 \$72,776 dc

NIH-NINCDS - Oligodendroglia: Myelination and Demyelination
1/1/80-12/31/82 \$167,007 dc
1/1/83-12/31/85 \$284,798 dc
9/1/86-8/31/89 \$311,253 dc

The Multiple Sclerosis
1/1/80-12/31/82 \$135,935 dc
A Bioassay of Oligodendroglial Function to Study MS Patients and Controls
1/1/83-12/31/85 \$157,428 dc
A Search for Unique Glycoproteins or Proteins in Oligodendroglia from Multiple Sclerosis Patients

South Plains Foundation
10/15/90-10/14/91 \$15,000
Polymorphisms of Neural Receptor Genes in Alzheimer's Disease

Texas Tech University Health Sciences Center
9/1/90-8/31/91 \$6,000
Regulation of Myelin Protein Gene Expression by Thyroid Hormone

National Science Foundation
8/15/91-7/31/94 \$40,000
Glucocorticoid Regulation of Gene Expression in Glia

NIH-NIDA
9/30/91-8/31/95 \$100,000 dc
Fire and Ice: Neurons Response to Illicit Drugs

Texas Department of Health
9/1/93 - 8/31/95 \$1,625,000
Establish a DNA bank of Alzheimer's families for genetic studies
9/1/95 - 8/31/97 \$1,382,000
9/1/97 - 8/31/99 \$1,397,000

9/1/99 - 8/31/00 \$ 609,000
VISN 7 Research Service Line Career Development Award
04/07/03-04/06/05 \$57,375/year
Combined Intramural Grants Program 7/1/03-6/30/04 \$20,000
NIH: (Alzheimer's consortium) TapDap clinical drug study
2005
VA Merit Award: 4/01/06-3/31/09 \$125,000/year plus 5/8 salary

Project Director:

NIH-NICHD - Metabolic and Developmental Aspects of Mental Retardation
1/1/83-12/31/85 \$276,594 dc
7/1/86-6/30/89 \$253,685 dc

Co-Investigator:

Multiple Sclerosis Society- African Americans with Multiple Sclerosis and APOE 4 Genotyping
9/1/02-8/31/04 \$33,000

Patent Filed 11/29/96:

Serial No. 60/007,738 "Compositions and Methods for Assessing Risk Factors in Alzheimer's Disease"
S.E.Poduslo, Ph.D.

Awarded in 2000.

Patent Filed 05/05/09

MCG 021-08-PCT/US09/42837 "Compositions and Methods for Diagnosing Late-Onset
Alzheimer's Disease"

Participation in Program Project Grant Applications in Neurology Department at The Johns Hopkins University School of Medicine:

1973 Development and Regulation in the Nervous System
1975 Development and Regulation in the Nervous System
1979 Center for MS, ALS and Other Neuromuscular Disease
1980 Cellular Dysfunctions in Neurological Disease

Participation in Program Project Grant Application in Pediatrics Department at the University of Maryland School of Medicine:

1982 Metabolic and Developmental Aspects of Mental Retardation
1984 Metabolic and Developmental Aspects of Mental Retardation
1988 Metabolic and Developmental Aspects of Mental Retardation

Participation

Committees:

Public Policy Committee of the American Society for Neurochemistry - 1982, 1983.
Host Committee for American Society for Neurochemistry - 1985.
Publications and Education Committee - American Society for Neurochemistry, 1986-1988, 1988-1989.
Host Committee for American Society for Neurochemistry - 1990.

Invited Speaker:

1977 Satellite Symposium on Myelination and Demyelination (Helsinki, Finland)

- 1978 Conference on Virology and Multiple Sclerosis (Multiple Sclerosis Society, New York, NY)
- 1978 Winter Conference on Brain Research (Keystone, CO)
- 1978 Recent Advances in Multiple Sclerosis Research Symposium (American Society for Neurochemistry, Washington, DC)
- 1978 The Use of Isolated Cell Fractions in Neurobiology Research Symposium (Society for Neuroscience, St. Louis, MO)
- 1980 Scientific Basis of Neurology Course (American Academy of Neurology, New Orleans, LA)
- 1981 Workshop on Oligodendroglia (Multiple Sclerosis Society, Arlie, VA)
- 1988 Workshop on Effects of Inborn Errors of Metabolism (National Institute of Child Health and Human Development, Rockville, MD)
- 1994 Alzheimer's Disease Symposium (Texas Tech University Health Sciences Center, Lubbock, TX)
- 1995 Alzheimer's Disease Research Symposium (Texas Tech University Health Sciences Center, Lubbock, TX)
- 1997 Beyond the Alzheimer's Disease Diagnosis Conference (El Paso, TX)
- 2000 Alzheimer's Disease in the New Millenium (Austin, TX)
- 2002 Are We There Yet, Local Alzheimer's Chapter Conference (Augusta, GA)
- 2002 Geriatrics Update, Psychiatry Conference (Augusta, GA)
- 2005 Is A Cure In Sight? Local Alzheimer's Chapter Conference (Augusta, GA)
- 2006 Will Research Be the Answer? Local Alzheimer's Chapter Conference (Augusta, GA)

Round Tables:

- 1974 Isolation and Metabolism of Neuronal and Glial Preparations Organized by M. Guarnieri and S.E. Poduslo (American Society for Neurochemistry, New Orleans, LA)
- 1980 CNS Cell Culture Systems
Organized by S. E. Poduslo and C. Schengrund (American Society for Neurochemistry, Houston, TX)

Chaired Sessions:

- 1973 International Society for Neurochemistry (Tokyo, Japan)
- 1975 American Society for Neurochemistry (Mexico City, Mexico)
- 1977 American Society for Neurochemistry (Denver, CO)
- 1982 American Society for Neurochemistry (Grossingers, NY)
- 1983 American Society for Neurochemistry (Honolulu, HI)
- 1984 American Society for Neurochemistry (Portland, OR)

Guest Lecturer:

- 1972 Department of Anatomy, Downstate Medical Center (Brooklyn, NY)
- 1975 Department of Pharmacology, University of Maryland School of Medicine (Baltimore, MD)
- 1976 Department of Neurology and Pathology, University of Pennsylvania School of Medicine (Philadelphia, PA)
- 1976 Department of Biochemistry, The Johns Hopkins University School of Medicine (Baltimore, MD)
- 1977 National Institute of Health (Bethesda, MD)
- 1980 Department of Neurology, Mayo Clinic (Rochester, NY)
- 1981 Department of Pediatrics, University of Maryland School of Medicine (Baltimore, MD)

- 1981 Department of Anatomy and Cell Biology, New York Medical College (Valhalla, NY)
- 1981 Department of Biochemistry, Hahnemann Medical College (Philadelphia, PA)
- 1981 Department of Anatomy, University of Illinois (Champaign/Urbana, IL)
- 1982 Department of Psychobiology, University of California (Irvine, CA)
- 1982 Department of Biology, Boston University (Boston, MA)
- 1982 Department of Biochemistry, University of Missouri (Columbia, MO)
- 1982 Department of Biology, Wayne State University (Detroit, MI)
- 1983 Department of Physiological Chemistry, Ohio State University School of Medicine (Columbus, OH)
- 1983 Department of Biological Chemistry, Penn State University, Milton S. Hershey Medical Center (Hershey, PA)
- 1983 Department of Neurology, University of Miami School of Medicine (Miami, FL)
- 1983 Department of Biochemistry, University of Mississippi (Jackson, MS)
- 1984 Department of Neuroscience, University of Maryland School of Medicine (Baltimore, MD)
- 1988 Department of Biological Chemistry and Structure, Chicago Medical School (Chicago, IL)
- 1988 Department of Biochemistry and Molecular Biophysics, Medical College of Virginia (Richmond, VA)
- 1989 Neurobiology Research Center, University of Alabama School of Medicine (Birmingham, AL)
- 1989 Department of Neurology, Medical University of South Carolina (Charleston, SC)
- 1989 Department of Medical and Surgical Neurology, Texas Tech University Health Sciences Center (Lubbock, TX)
- 1989 Department of Anatomy, Medical College of Georgia (Augusta, GA)
- 1989 Department of Bacteriology and Biochemistry, University of Idaho (Moscow, ID)
- 1989 Gerontology Research Center (Baltimore, MD)
- 1994 Lubbock Lion's Club (Lubbock, TX)
- 1994 Alzheimer's Research Council (Austin, TX)
- 1995 Alzheimer's Research Council (Austin, TX)
- 1996 Alzheimer's Research Council (Austin, TX)
- 1997 Alzheimer's Research Council (Austin, TX)
- 1997 Department of Neurology, University of Texas Health Sciences Center (San Antonio, TX)
- 2001 Medical College of Georgia (Augusta, GA)
- 2002 Department Neurology, Emory University (Atlanta, GA)

Participant:

- 1978 The Johns Hopkins University In House Symposium on Cell Biology (Baltimore, MD)
- 1981 The Johns Hopkins University In House Symposium on Cell Biology (Baltimore, MD)
- 1984 The Johns Hopkins University In House Symposium on Cell Biology (Baltimore, MD)

Organization:

- 1979-1980 Seminar Speakers for Neurochemistry Section in Department of Neurology, The Johns Hopkins University (Baltimore, MD)
- 1983-1984 Seminar Speakers for Neurochemistry Section in Department of Neurology, The Johns Hopkins University (Baltimore, MD)
- 1985 Recombinant DNA Workshop for the American Society for Neurochemistry (Baltimore, MD)

- 1985-1986 Seminar Speakers for Neurochemistry Section in Department of Neurology, The Johns Hopkins University (Baltimore, MD)
- 1991-1994 Speakers for Neuroscience Research Seminar Series, Texas Tech University Health Sciences Center (Lubbock, TX)
- 1995 Organized symposium: Alzheimer's Research Symposium with 7 speakers from the United States and Canada. Held 4/29/95 at Texas Tech University Health Sciences Center (Lubbock, TX)
- 2007 Organized symposium: "Dimensions of Dementia: Diagnosis and Treatment" with 4 expert clinicians. Held 03/24/2007 at the Medical College of Georgia, Augusta, GA

Editorial Functions:

Acting Editor for Neuroscience Letters

Ad Hoc Reviewer for Brain Research

Biochimica Biophysica Acta

Neuroscience

Journal of Neurochemistry

Neuroscience Letters

American Journal of Human Genetics

American Journal of Medical Genetics

Neurobiology of Aging

Neurochemical Research

Journal of Alzheimer's Disease

Human Mutation

Neuropsychiatric Genetics

Journal of Neurology, Neurosurgery, Psychiatry

Alzheimer's Disease and Associated Disorders

Dementia and Geriatric Cognitive Disorders

Reviewer for the Kroc Foundation

Ad Hoc Reviewer for National Science Foundation

Ad Hoc Reviewer for Alzheimer's Association

Ad Hoc Reviewer for NIH - National Eye Institute

Veterans Administration - Neurology

Swiss National Science Foundation

Veterans Administration

National Institute on Aging

1984-1998 - Editorial Board of Neurochemistry International

Participant in Site Visits & Review Committees:

1979 NIH - Neurological Disorders Program - Project Review A Committee

1980 NIH - Neurological Disorders Program - Project Review A Committee

1981 NIH - Neurological Disorders Program - Project Review A Committee

1981 NIH - NINCDS Stroke and Trauma Program

1982 NIH - Neurological Disorders Program - Project Review A Committee

1985 NIH - Ad Hoc Reviewer - Neurological Sciences Study Section

1986 NIH - NINCDS Special Review Section - Neurological Sciences Study Section
 1988 NIH - Neurological Disorders Program - Project Review A Committee
 1993 NSF - Reviewer - Neurobiology Study Section
 1994-1997 VA Merit Review Board for Neurology
 2000 Ad Hoc VA Merit Review Board for Neurology
 1999 NIH- NICHD Research Center Core
 2000 NIH- NICHD Mental Retardation Research
 2001 Ad hoc reviewer for Alzheimer's Association
 2002 VA Ad hoc VA Merit Review Board for Neurology
 2002 Ad hoc reviewer for Alzheimer's Association
 2003 Ad hoc reviewer for Alzheimer's Association
 2004 Ad hoc reviewer for Alzheimer's Association
 2005 NIH NCRR COBRE Special Emphasis Panel
 2006 Ad Hoc reviewer for Alzheimer's Association
 2006 Ad Hoc reviewer for MRC
 2007 Ad Hoc reviewer for Alzheimer's Association
 2008 Ad Hoc Reviewer for Alzheimer's Association
 2008 American Diabetes Association
 2008 VA Career Development Review

Teaching

1983 Participation in Neuroscience Course for medical students, The Johns Hopkins University School of Medicine
 1992-1994 Participation in Cell Biology course for Graduate students, Texas Tech University Health Sciences Center School of Medicine
 1991-2001 Participation in Neuroscience Course for medical students, Texas Tech University Health Sciences Center School of Medicine
 1995-2001 Organized schedule of multifaculty participation in Neuroscience Course for medical and graduate students, Texas Tech University Health Sciences Center School of Medicine. Gave 7 hours of lecture and 4 hours of lab
 2005-2006 Lecture to Allied Health Students MCG
 2005, 2007 Lecture graduate students Neuroscience II
 2005 Lunch and Learn Department of Medicine Residents
 2006-2008 Organized Lunch and Learn for Alzheimer's families which meets monthly with invited speakers

Council:

1986-1989 Member of Council of American Society of Neurochemistry
 1998-2004 Member of Texas Council on Alzheimer's Disease and Related Disorders

Functions at Texas Tech University Health Sciences Center:

1990 Director of Basic Research
 1990 Joint Appointment in Cell Biology and Anatomy
 1990 Joint Appointment in Biochemistry and Molecular Biology

1990 Graduate Faculty
 1990-1991 Search Committee for Physiology Chair
 1990-1991 Faculty Research Council
 1991-1995 Library Committee
 1991-1994 Tenure and Promotion Committee
 1991-1993 Admissions Committee
 1991 Development Committee
 1994-1997 Faculty Research Council
 1995 Steering Committee for Neuroscience Initiative
 1997-1999 Faculty Appointments Committee
 1997-2003 Grading and Promotions Committee
 1997 Search Committee for Neuropsychiatry Chair
 2000-2003 Hearing Committee

Community Events in Texas

Member of board for Estacado High School Magnet Health Care Profession Program, 1992-1993.
 Chair of Curriculum Committee for Estacado High School Magnet Health Care Profession Program, 1992-1993.
 Speaker at various Alzheimer's Support Group meetings.
 Speaker at Lubbock Multiple Sclerosis Support Group.
 Established Texas Tech University Health Sciences Center as member of Alzheimer's Autopsy Network serving West Texas and New Mexico.
 Speaker on local radio and television spots around Texas on Alzheimer's research.
 Subject of numerous newspaper articles on Alzheimer's disease and the DNA Bank
 Established Alzheimer's support group in Texas in 1997

Teaching

Instruction of many technicians

Postdoctoral fellows

Charles Schmelzer, Ph.D.	Marie Filbin, Ph.D.
Merle Kennard, Ph.D.	David Hampson, Ph.D.
Denise Ippensen, Ph.D.	Eugene Drigalenko, Ph.D.

Graduate Students

Wei Chen, 4-month rotation
 Vanessa Castleberry, 4-month rotation
 Khurshid Rana, 2-month rotation
 Cindy Cregier, 6-month rotation
 Paulette Decker, Ms Nursing
 Aaditya Rai, Ms Computer Science
 Kulin Kothari, Ms Computer Sciences

Medical Students

David Boney	Patricia Cumming-Hood
James Gulde	Brent Shook
Emmanuel deLa Cruz	Steve Arze

Undergraduate Clark Scholar Program

Kusai Merchant	Sarah Rapawy
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Ricardo Guzman
Howard Hughes Scholar
Patti Burk
Sean Howell

Tim McCavit
Eric Graham

Advisor

Khurshid Rana Cindy Cregier Beixing Ye

Residents

Hal Astle, M.D.

Faculty

Penelope Coates, Ph.D. Michael LaBate, Ph.D.
Harry Weitlauf, M.D., Ph.D.

Sponsored Pam Thomas (high school science teacher) as recipient of the American Society for Cell Biology Teacher Research Fellowship Award for 1992. Recipient of the American Society for Cell Biology Teacher Research Fellowship Award for 1993 and American Society for Biochemistry and Molecular Biology High School Teacher Fellowship for 1993. Recipient of the American Society for Biochemistry and Molecular Biology High School Teacher Fellowship for 1994.

Alzheimer's DNA Bank

Established DNA Bank in Texas for Alzheimer's families:

Started 11/93

As of 1/99 have enrolled 2200 families with possible Alzheimer's patients with 8700 family members.

Also as of 1/99 have enrolled 331 Parkinson's patients and 188 Multiple Sclerosis patients.

Studying the genetics of late onset Alzheimer's disease; performing a genome screen on 9 extended families Discussed genetics research and enrolled families at over 70 Texas locations.

Author and Editor of DNA UPDATE - a newsletter for Alzheimer's families which details our research as well as that from around the world. 20 issues: Dates- Winter 1993; March 1994; June 1994; September 1994; January 1995; Spring 1995; Fall 1995; Winter 1995; Spring 1996; Summer 1996; Winter 1996; Spring 1997; Fall 1997; Winter 1997; Spring 1998; Fall, 1998; Winter 1998; Spring 1999; Summer, 1999; Winter 1999

Producer of Video describing the DNA Bank as well as our genetic research.

First edition 1994

Second edition 1996

Third edition 1997

Molecular laboratory of 7 technicians, 5 students, 1 postdoc, 2 coordinators, 3 clerical specialists and 1 systems programmer.

Functions at Medical College of Georgia:

2001- Director of DNA Bank

2002-2005 Faculty Appointments, Promotions and Tenure Committee

2002-2003 Faculty Recognition Committee

2003-2007 Faculty Senate Executive Committee
2005- Student Promotions Committee
2004-2006 Faculty Bylaws Committee
2004-2007 Faculty Research Ethics Committee
2005-2007 Secretary Senate Executive Committee
2004-2006 Academic and Research Computing Advisory Board
2007-2009 President Elect Faculty Senate

Established DNA Bank at the Medical College of Georgia; Have 160 Alzheimer's families with over 600 family members, 250 MS patients, and 150 Parkinson's patients

Graduate Students: Heather Cathcart, Rahul Sonone, Eleanor Fennell

Postdoctoral Fellows: Haidong Zhu, Rong Huang

Star Students: Ginny Parker, Alisa Winkie, Christina Randall, Stephanie Morris

Medical Students: Kevin Howard, Danny Cheng, Tiffany Edwards, Diane Strasburger

DNA Research Update: Issue 1, 2004; Issue 2, 2005, Issue 3, 2006, Issue 4, 2007, Last issue, 2009

Community Events:

MMSE screenings

Health Fairs

Lunch and Learn monthly 1/06-12/08

Current Webpage at the Medical College of Georgia: <http://www.mcg.edu/alzres/>

Bibliography

Shirley E. Poduslo

1. W.T. Norton, S.E. Poduslo and K. Suzuki. "Subacute Sclerosing Leucoencephalitis. II. Chemical Studies, Including Abnormal Myelin and an Abnormal Ganglioside Pattern." *J. Neuropath. Exper. Neurol.* 25: 582-597 (1966).
2. K. Suzuki, S.E. Poduslo and W.T. Norton. "Gangliosides in the Myelin Fraction of Developing Rats." *Biochim. Biophys. Acta.* 144: 375-381 (1967).
3. K. Suzuki, S.E. Poduslo and J.F. Poduslo. "Further Evidence for a Specific Ganglioside Fraction Closely Associated with Myelin." *Biochim. Biophys. Acta.* 152: 576-586 (1968).

4. W.T. Norton and S.E. Poduslo. "Neuronal Soma and Whole Neuroglia of Rat Brain. I. A New Isolation Technique." *Science* 167: 1144-1146 (1970).
5. W.T. Norton and S.E. Poduslo. "Neuronal Perikarya and Astroglia of Rat Brain: Chemical Composition During Myelination." *J. Lipid Res.* 12: 84-90 (1971).
6. C.S. Raine, S.E. Poduslo and W.T. Norton. "The Ultrastructure of Purified Preparations of Neurons and Glial Cells." *Brain Res.* 27: 11-24 (1971).
7. S.E. Poduslo and W.T. Norton. "Isolation and Some Chemical Properties of Oligodendroglia from Calf Brain." *J. Neurochem.* 19: 727-736 (1972).
8. S.E. Poduslo and W.T. Norton. "The Bulk Separation of Neuroglia and Neuron Perikarya." In Research Methods in Neurochemistry (N. Marks and R. Rodnight, ed.) Plenum Press, New York, P. 19-32 (1972).
9. W.T. Norton and S.E. Poduslo. "Myelination in Rat Brain. I. Method of Isolation." *J. Neurochem.* 21: 749-757 (1973).
10. W.T. Norton and S.E. Poduslo. "Myelination in Rat Brain. II. Changes in Myelin Composition and Brain Maturation." *J. Neurochem.* 21: 759-773 (1973).
11. S.E. Poduslo and W.T. Norton. "Isolation of Specific Brain Cells." In Methods in Enzymology (Colwick and Kaplan, ed.), Academic Press, 35: 561-579 (1975).
12. R.A. Meyer, S.F. Haase, S.E. Poduslo and G.M. McKhann. "Light Scattering Patterns of Isolated Oligodendroglia." *J. Histochem. & Cytochem.* 22: 594-597 (1974).
13. W.T. Norton, T. Abe, S.E. Poduslo and G.H. DeVries. "The Lipid Composition of Isolated Brain Cells and Axons." *J. Neurosci. Res.* 1: 57-75 (1975).
14. S.E. Poduslo. "The Isolation and Characterization of a Plasma Membrane and a Myelin Fraction Derived from Oligodendroglia of Calf Brain." *J. Neurochem.* 24: 647-654 (1975).
15. S.E. Poduslo and G.M. McKhann. "The Isolation of Specific Cell Types from Mammalian Brain." In The Nervous System. Vol. 1: The Basic Neurosciences (D.B. Tower, Ed. in Chief) Raven Press, New York, 437-441 (1975).
16. S.E. Poduslo, G. Tennekoon, D. Price, K. Miller and G.M. McKhann. "Fetal Metachromatic Leucodystrophy: Pathology, Biochemistry, and A Study of in vitro Enzyme Replacement in CNS Tissue." *J. Neuropath. & Exp. Neurol.* 35: 622-632 (1976).
17. S.E. Poduslo and G.M. McKhann. "Maintenance of Bulk Isolated Neurons." *Neurosci. Letters* 2: 267-271 (1976).

18. S.E. Poduslo and G.M. McKhann. "Maintenance of Neurons Isolated in Bulk from Rat Brain: Incorporation of Radiolabeled Substrates." *Brain Res.* 132: 107-120 (1977).
19. S.E. Poduslo and G.M. McKhann. "Synthesis of Cerebrosides by Intact Oligodendroglia Maintained in Culture." *Neurosci. Lett.* 5:159-163 (1977).
20. S.E. Poduslo, H.F. McFarland and G.M. McKhann. "Antiserums to Neurons and to Oligodendroglia from Mammalian Brain." *Science* 197:270-272 (1977).
21. S.E. Poduslo. "Studies of Isolated, Maintained Oligodendroglia: Biochemistry, Metabolism, and in vitro Myelin Synthesis." *Advances in Experimental Medicine and Biology*, Vol. 100. Plenum Press, New York, 71-94 (1978).
22. S.E. Poduslo, K. Miller and G.M. McKhann. "Metabolic Properties of Maintained Oligodendroglia Purified from Brain." *J. Biol.Chem.* 253: 1592-1597 (1978).
23. S.E. Poduslo. "Oligodendroglia: Bulk Isolation and Maintenance as Suspension Cultures." In *Research Methods in Neurochemistry*, Vol. 5, (eds. N. Marks and R. Rodnight) Plenum Press, New York, pgs. 113-125 (1981).
24. S.E. Poduslo, K. Miller and J. Wolinsky. "The Production of a Unique Membrane by Purified Oligodendroglia Maintained in Culture." *Exper. Cell Res.* 137: 203-215 (1982).
25. S.E. Poduslo, K. Miller, Y. Jang. "Biochemical Studies of the Late Infantile Form of Metachromatic Leucodystrophy." *Acta Neuropath.* 57: 13-22 (1982).
26. W.T. Norton and S.E. Poduslo. "Biochemical Studies of Metachromatic Leucodystrophy in Three Siblings." *Acta Neuropath.* 57:188-196 (1982).
27. S.E. Poduslo, K. Miller and S. Zoller. "Purification and Maintenance in Culture of Oligodendroglia from Human Multiple Sclerosis Brain." *J. Neurol. Sci.* 54: 395-400 (1982).
28. L.M. Roeder, S.E. Poduslo and J.T. Tildon. "Utilization of Ketone Bodies and Glucose by Established Neural Cell Lines." *J. Neurosci. Res.* 8: 671-682 (1982).
29. S.E. Poduslo, K. Miller and Y. Jang. "Comparison of Lipids and Lipid Metabolism in a Human Glioma Cell Line, Its Clone, and Oligodendroglia." *Cancer Res.* 43: 014-1018 (1983).
30. S.E. Poduslo. "Proteins and Glycoproteins in Plasma Membranes and in a Membrane Produced by Purified Oligodendroglia in Culture." *Biochim. Biophys. Acta* 728: 59-65 (1983).
31. S.E. Poduslo and S. Zoller. "Bioassay Response of Oligodendroglia in Culture to Factors in Multiple Sclerosis Serum." *Neurochem. Path.* 1: 235-248 (1983).
32. S.E. Poduslo and Y. Jang. "Myelin Development in Infant Brain." *Neurochem. Res.* 9: 1613-1624 (1984).

33. S.E. Poduslo, R. Curbeam, K. Miller and P. Reier. "Purification and Characterization of Cultures of Oligodendroglia from Rat Brain." *J. Neurosci. Res.* 14: 433-447 (1985).
34. S.E. Poduslo and K. Miller. "Levels of Sulfatide Synthesis Distinguish Oligodendroglia in Different Stages of Maturation." *Neurochem. Res.* 10: 1285-1297 (1985).
35. S.E. Poduslo, T. Chechik, M.T. Filbin and J. Rosenfeld. "The Purification and Characterization of Plasma Membranes Obtained from Rat Neurons by Bulk-Isolation." *J. Neurosci. Res.*, 15: 553-567 (1986).
36. M. Filbin and S.E. Poduslo. "A Sensitive Immunotransfer Method for the Detection of Oligodendroglial Plasma Membrane Antigens." *Neurochem. Int.*, 9: 517-520 (1986).
37. D.R. Hampson and S.E. Poduslo. "Purification of Proteolipid Protein and Production of Specific Antiserum." *J. Neuroimmunol.*, 11: 117-129 (1986).
38. C.H. Schmelzer and S.E. Poduslo. "Purification and Characterization of Two Glycoproteins from Oligodendroglial Plasma Membranes." *Biochim. Biophys. Acta* 858: 56-66 (1986).
39. M.T. Filbin and S.E. Poduslo. "A Comparison of the Proteins and Glycoproteins from Multiple Sclerosis and Normal Brain Tissue." *Neurochem. Res.* 11: 1151-1166 (1986).
40. S.E. Poduslo. "Oligodendroglia", In Diseases of the Nervous System (Ed. A.K. Asbury, G.M. McKhann, W.I. McDonald) W.B. Saunders Co., Philadelphia, PA, pp. 139-152 (1986).
41. T. Chechik, L.M. Roeder, J.T. Tildon, and S.E. Poduslo. "Ketone Body Enzyme Activities in Purified Neurons, Astrocytes, and Oligodendroglia." *Neurochem. Int.* 10: 95-99 (1987).
42. T. Chechik and S.E. Poduslo. "Neurotransmitter Enzyme Activities in Neurons Purified by Bulk-Isolation." *Neurochem. Res.* 12: 79-82 (1987).
43. D.R. Hampson and S.E. Poduslo. "Comparisons of Proteins and Glycoproteins in Neuronal Plasma Membranes, Axolemma, Synaptic Membranes, and Oligodendroglial Plasma Membranes." *J. Neurosci. Res.* 17: 277-284 (1987).
44. C.H. Schmelzer and S.E. Poduslo. "Glycoproteins in the Whorls of Membrane Produced by Oligodendroglia in Culture." *Biochim. Biophys. Acta*, 903: 103-111 (1987).
45. S.E. Poduslo. "Preparation of Cellular and Subcellular Fractions from the Central Nervous System," In Neuronal and Glial Proteins: Structure, Function, and Clinical Application. (Ed. P.J. Marangos, I. Campbell, and R.M. Cohen) Academic Press, Fla., pp. 3-24, (1988).
46. S.E. Poduslo. "Glucocorticoid Induction of Ketone Body Enzymes in Glial Cells." *Arch. Biochem. Biophys.* 272: 318-322 (1989).

47. S.E. Poduslo. "Four Major Phosphoproteins and Active Phosphatidylinositol Turnover in Oligodendroglial Plasma Membranes." *Neurochem. International.*, 16: 141-146 (1990).
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Symposiums

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2. S.E. Poduslo, "Oligodendroglia - The Putative Target Cells." Symposium on "Recent Advances in Multiple Sclerosis Research." Trans. Am. Soc. Neurochem. 9: 16 (1978).
3. S.E. Poduslo, "The Preparation and Culture of Bulk Isolated Cells from Brain." Symposium on "The Use of Isolated Cell Fractions in Neurobiology Research." Soc. for Neurosciences 8: 213 (1978).
4. S.E. Poduslo, "Oligodendroglia and Multiple Sclerosis." In course "Scientific Basis of Neurology" by G.M. McKhann at Amer. Acad. Neurol. 32: 28 (1980).
5. S.E. Poduslo and C.H. Schmelzer, "Glycoproteins in Oligodendroglial Plasma Membranes and Other Membranes." Minisymposium on "Membrane Glycoproteins in Disease and Development." Trans. Am. Soc. Neurochem. 17 (1986).
6. S.E. Poduslo, "The Texas Alzheimer's DNA Bank and Related Genetic Studies." The Alzheimer's Research Symposium. Texas Tech University Health Sciences Center (1995).
7. S.E. Poduslo, "Alzheimer's Research." Beyond the Alzheimer's Disease Diagnosis. El Paso, Texas (1997).
8. S.E. Poduslo, "The Latest in the Genetics of Alzheimer's Disease." Alzheimer's Disease in the New Millenium. Austin, TX (2000).
9. S.E. Poduslo, "The DNA Bank and the Genetics of Alzheimer's Disease and Are We There Yet?" Augusta Chapter of the Alzheimer's Association Conference (2002)
10. S.E. Poduslo, "Dementia and Alzheimer's Disease." Geriatrics Conference, Augusta, GA (2002).
11. S.E. Poduslo, "Is A Cure in Sight?" Augusta Chapter of Alzheimer's Association Conference (2005).
12. E. Fennell, S. E. Poduslo, S. Smith, "Does Grandmother Have Alzheimer's Disease?" Sigma Theta Tau, Beta Omicron chapter. (2005).
13. S.E. Poduslo, "Will Research Be the Answer?" Augusta Chapter of the Alzheimer's Association Conference. (2006).
14. S.E. Poduslo, Research Update: AWhere We Are Today@. Augusta Chapter of the Alzheimer's Association Conference. (2007).