Curriculum Vitae

Robert L. Potter

General Data:

Birth date: 3/18/51

Initial Date of USF Employment/Rank: August 10, 1984/Assistant Professor

Present Rank: Professor

Department: Chemistry - BSF 302 Dean's office BEH 201 Phone: (813) 974-4059

Unit: College of Arts and Sciences, University of South Florida

Education:

Institution	Field of Study	Degree	Date
Calif. State Univ., Sacramento	Chemistry	B.A.	1973
Univ. of California, San Diego	Biochemistry	M.S.	1976
Univ. of California, San Diego	Biochemistry	Ph.D.	1979

Employment/Positions:

2017-present	Sr. Associate Dean for Academics, College of Arts and Sciences
2007-2017	Associate Dean for Graduate and Undergraduate Studies, College of Arts and Sciences
2001-present	Professor of Chemistry University of South Florida
2000-present	Associate Director, Coalition for Science Literacy, University of South Florida
1998-99	Interim Chair of Chemistry, University of South Florida
1998-2007	Member, H. Lee Moffitt Cancer Center Drug Discovery Group
1994-1998	Associate Member, H. Lee Moffitt Cancer Center and Research Institute
1992-2001	Associate Professor of Chemistry, University of South Florida
1989-2000	Member, University of South Florida Institute for Biomolecular Science
1988-98	Consultant in Protein Chemistry to Bausch and Lomb Pharmaceuticals
1984-92	Assistant Professor of Chemistry, University of South Florida
1979-84	Visiting Assistant Professor of Biochemistry, University of Wyoming -

Areas of Specialization:

Science Education/Program Development/Program Evaluation/Teacher Professional Development

Biochemistry/Protein Chemistry - Structure/Function Analysis
- Mechanisms of Biological Signal Transduction
- Regulation by Protein Monoglycosylation and Phosphorylation-Dephosphorylation
- Assay Development - Quality Assurance Methodologies
- Collagen Biomaterials - Preparation and Characterization
- Spectroscopic Analysis of Blood and Blood Products

Awards:

Southeastern Association for the Education of Teachers in Science; Rod Nave Award for Outstanding Friend of Science Education 2001
Chemistry-Alumni Undergraduate Teaching Award, 1997
State of Florida Teaching Incentive Program, Excellence in Undergraduate Teaching, 1996
State of Florida Teaching Incentive Program, Excellence in Undergraduate Teaching, 1993
Excellence in Undergraduate Teaching, University of South Florida, 1989

University, College, or Departmental, Councils or Committees:

University

Bay View Alliance, one of three university liaisons to this group promoting improved STEM Education and Inclusive Excellence 2017-23
Student Success Council 2016-23
Graduate and Professional Student Success Workgroup 2019-20
Distinguished University Professor Discipline Committee Evaluator 2016
Applied Analytics Council 2015-16
USF Workgroup on Tuition Waiver Guidelines 2015-16
Associate Dean Undergraduate Studies Search Committee 2012
Academic Affairs Committee of the Student Success Council 2012-2015
Strategic Enrollment Management Team 2011-2013; 2014-2015
Student Academic Experience committee Co-chair 2011-2013
Postdoctoral Scholar Advisory Group 2009-2013
Academic Assessment Advisory council 2009-2012
Graduate Enrollment Advisory group 2009-2013
Administrative Assessment council 2009-20013
Graduate Program Assessment Plans Review Committee 2009
College of Education Conceptual Framework Review Committee 2009
Graduate Diversity Fellowship Awards committee 2007-2011
Workgroup Examining Feasibility of USF joining The Voluntary System of Accountability 2007
University Assessment Steering Committee (2006-2009)
Chair University General Education Council (2005-2007)
College of Education/College of Arts and Science Advisory Council 2005-07
Quality Enhancement Plan Committee, Chair, General Education Review Committee (2003-2005)
Workgroup on Strengthening the University Experience Course (2005)
Interdisciplinary Sciences Faculty Review Committee 2003
General Education Assessment Advisory Committee (2001-2005)
USF representative to the SUS Dual Enrollment Evaluation Committee (2001)
Chair College of Arts and Science Dean's Advisory Committee (2000-2001)
Liberal Arts, General Education Assessment and Evaluation Action Committee (2000-2001)
College of Arts and Science Dean's Advisory Committee (1997-1998, 1999-2001)
College of Education Curriculum Review Committee (content review) (2000-2001)
Arts and Sciences representative for College of Education, Accreditation Review (2000)
Member of ad Hoc Committee for USPS Salary Raise Distribution (1998-99, 1999-2000)
Institute for Biomolecular Science - Advisory Committee (1989-91), (97-99)
Executive Committee - Program in Cellular and Molecular Biology (1995-1999)
Institute on Aging - Research Committee (1995-1996)
Institute for Biomolecular Science - Chairperson: Committee to Develop an Interdisciplinary Ph.D. Program in Cellular and Molecular Biology (1993-1994) Lead to interdisciplinary Ph.D. program in Cell and Molecular Biology
Work Group for Reorganization and Coordination of USF Biochemistry and Molecular Biology (1992)
Institute for Biomolecular Science - Graduate Fellowship Committee, Chairman (1993)
Institute for Biomolecular Science - Summer Fellowship Awards Committee (1991)
Institute for Biomolecular Science - Graduate Fellowship Committee (1991, 1992)
Radiation Safety Committee (1988-91)

Search Committees: Chemistry - Analytical position (1986)
Biology - Cell Biology position (1988)
Biochemistry - Molecular Biology position (1991)
Biology - Molecular Biology position (1992)
Chemistry – Chairperson Biochemistry Search (1994-1995)
Chemistry-Organic and BioOrganic Search Committees (1995-1996)

Chemistry - Biochemistry search (1997-1998)
Chemistry - Chairperson Search (1998-1999)
Chemistry – Chemical Education position (2000)
Chemistry – Chemical Education position (2004/5)
College of Arts and Sciences, Dean of the College of Arts and Sciences (2002)
Undergraduate Studies Associate Dean search committee 2012

Departmental committees
Chemistry Long-range Planning Committee (1993-94, 1999-2000)
Graduate Council - Graduate Admissions Committee (1992-97, 1999-2000)
Chair's Advisory Council (1992-97), (2000-2003, 2005-2007)
Chair's Advisory Council Chairman (1993-95, 2001)
Undergraduate Curriculum Committee (1995-97, chair (2000-2001), (2003-07)
Liaison and Development Committee (1996-97), (2002-2007)
Graduate Recruitment Committee (1996-97)
Instrumentation Committee (1997)
Interim Director of Clinical Chemistry (1994-96)
Medical Technology Advisory Committee (1985-92)
Biochemistry Division Coordinator (1992)
Seminar Committee (1986-92)
Library Committee Chairman (1987-92)
Development Committee (2003-05)

Professional Service:

Research/Science Activities

National Science Foundation: Division of Undergraduate Education: Course, Curriculum, Laboratory Instruction Program (CCLI); Educational Materials Development and National Dissemination, Panel, July 14-17, 2003

National Science Foundation: Ad Hoc reviewer 2000, 2005

National Science Foundation - Special Emphasis Panel, Division of Molecular and Cellular Bio-sciences, Research Planning Grants and Career Development Awards for Women. 1994 and 1995

Reviewer for: Analytical Biochemistry, Biotechnology and Bioengineering ,Journal of Agriculture and Food Chemistry, Journal of Chemical Education, National Science Foundation, Petroleum Research Foundation, Maryland Technology Development Corporation (TEDCO), State of Pennsylvania BioAdvance Green House Fund

Organized a Symposium on "Protein Structure/Function and Methods of Analysis" for Florida American Chemical Society Meeting 1995

Education/Training/Service Activities:

External program reviewer for Florida Atlantic University Chemistry Department 3/2015
College For Every Student: Tampa Bay Advisory Council, 2012-2013
Florida Department of Education Office of Mathematics and Science STEM Advisory Council 2012/13
Florida PROMiSE Leadership Council (PROMiSE: Statewide science and mathematics professional development program funded through USDOE and FLDOE) 2008-2011
Florida Department of Education Office of Mathematics and Science Advisory Council 2007/08
Florida Department of Education Sunshine State Science Standards Revision: Framers Committee 2007/08
Associate Editor of Numeracy a national online journal focused on Quantitative Literacy (2007-2008)

Co-organizer of NSF sponsored Florida Summit on Mathematics and Science Education Feb 2-4 2005, Tampa Fl: Leadership team G. Meisels, R. Potter, P. Haskins and M. Wiengarner.

Participant AAC&U's Network for Academic Renewal meeting held in Atlanta, Feb.17-19 2005 "General Education and Assessment: Creating Shared Responsibility for Learning Across

Member Florida Comprehensive Assessment Test, (FCAT), Science Expert Review Panel 2001, 2002, 2003, 2006, 2007, 2008, 2009

Member Florida Comprehensive Assessment Test, (FCAT), Tampa Fl 2004. Standards Setting Panel 2005

Florida Teacher Certification Examination (Chemistry), Development and Rev. Teams 2003/2004

Pasco County Schools, Integrated Science Curriculum Development Committee, 2002

Florida Teacher Certification Science Examination (grades 6-12) Development Team 2002

USF Science Representative ad hoc State Dual Enrollment Evaluation Committee 2001

Member Steering Committee to Design Implement and Oversee State Teacher Professional Development Program in Mathematics and Science, 2001

Member Design team for Science Summer Institute Teacher Professional Development Program 2001

Advisory Board, Florida DOE Suncoast Area Center for Educational Enhancement 1999-2003

Member, Florida Coalition for Improving Math and Science (CIMS), 2000-2003

Invited Participant – American Association of Colleges and Universities / NSF- sponsored Science Education for Civic Engagements and Responsibilities (SENCER), Washington DC, 2000

Invited Participant – Forging Florida's Future in a High Technology World: Linking Leadership for Excellence in Mathematics, Science and Technology Education Kennedy Space Center, 2000

Elected Regional Coordinator of Region IV for the Florida Higher Education Consortium (HEC - 6 regions total). January 1999-01, this group promotes improvement of science and mathematics education in Florida.

Elected Vice Chair/Chair Elect Higher Education Consortium 2000-2002

Program Chair HEC 10th Annual Statewide Meeting "Quality Education: Blending Content, Pedagogy, Motivation and Technology Nov. 1-3, 2001

Program Chair, HEC 9th Annual Statewide Meeting "AIM Higher: Enhancing Faulty Effectiveness for Student Success" Nov.9-11 2000

Lead State of Florida Science Teachers Education Standards Review Committee 2000

Student Advisor for Institute of Biomolecular Science Interdisciplinary Ph.D. Program in Cellular and Molecular Biology 1995-1996

McNair Scholars Program Research Mentor 1995-1996

Coalition for Science Literacy - Chair Committee to design an Introductory College Science and Mathematics course, 1996

Invited Participant NSF sponsored short course "Enhancing Evaluation Capacity in Science Education, The Evaluation Center - Western Michigan University, June 3-21, 1996.

Invited Participant and Panel Member. National Research Council Sponsored - Florida State-Wide Teleconference: Implications of National (NSES) and Florida (SSS) Science Education Standards on College Courses, November 1996

Florida Department of Education. Classroom Managed Assessments Training, Sept. 8-10, 1997 - Certified Assessment Trainer

Invited Participant, Institute for Academic Leadership, State University System Department Chairpersons Workshop, Howey-in-the-Hills, Florida, Oct. 11-14, 1998 and June 13-16, 1999

State of Florida Education Reform: Blue Print 2000 Goal-2 Team "Readiness for the Work Place and Post Secondary Education," 1993-94

Advisory Board - USF Center for Excellence in Math and Science, 1994-96

Member, State of Florida Higher Education Consortium, 1994-present

Member, Southwest Florida National Science Education Standards Review Focus Group, 1995

Member, Higher Education, Consortium Region IV, Planning Committee for Workshop - "Meeting the Challenges of Education in Science and Mathematics, 1995.

Member, USF Coalition for Science Literacy Advisory Board, 1995-present.

Mentor for USF High School Science Mentor Program -Center for Excellence in Math and Science, 1985-1995.

Reviewed - *Biochemistry* by Mathews and Van Holde, 1992 ; Reviewed - *Biochemistry*, 2nd edition, Voet and Voet, 1993; *Reviewed* -Biochemistry for Chemophobes by R. Scorpio,(1999); Reviewed Mathews and Van Holde 3rd Ed. (2000 and 2001)

Mentor - USF Mentor Program for Project Thrust to Assist African American Students at USF, 1992-93

National Memberships:

American Association for the Advancement of Science 1986-2007
American Chemical Society, 1990-2010
American Society for Cell Biology 1992-2007
American Society for Biochemistry and Molecular Biology 1992-2010
Association for Supervision and Curriculum Development 1996-2007

Research and Creative Activities:

Publications:

(2022) "STEM Laboratory Teaching Assistants' Perspectives of a Multi-Semester Professional Development Designed to Promote Evidence Based Teaching Practices and Facilitate Equitable Opportunities". Sears, R., Potter, R., Schuler, K., & Meisels, G (Accepted -2022). In S. M. Linder, C. Lee, and K. High (Eds). Handbook of STEM Faculty Development. Charlotte: NC. IAP-Information Age Publishing (In press December 2022).

(2021) Meisels, G., Potter, R., Stiling, P., Camacho, A., Beneteau, C., Campbell, S., Sears, R., Yee, K., Schuler, K., (2021). *Systemic Transformation of Education Through Evidence-based Reform (STEER): Results and Lessons Learned.* American Society For Engineering Education 2021 Annual Conference July 26th-29th. https://peer.asee.org/37797.

(2019) Campbell, S. W., Wysong, J. F., Stiling, P., Meisels, G. G., Potter, R. L. (2019), "Systemic Transformation through Evidence-based Education Reform (STEER)". Paper presented at 2019 ASEE Annual Conference & Exposition, Tampa, Florida. https://peer.asee.org/32300

(2017) "STEER"ing the Systemic Approach to Improving Learning: Shifting Culture to Evidence-based teaching at a Research Intensive University: Ruthmae Sears, Robert Potter and Gerry Meisels; (One of four case studies highlight for program: Science and Math teacher Imperative (SMTI)/Accelerating Systemic Change Network Conference/Workshop. New Orleans LO, June 24-25, 2017.)

(2015) "Planning Transformation of STEM Education in a Research University"
R. Potter, G. Meisels, P. Stiling, J. Lewis, C. Beneteau, K. Yee, R. Pollenz; in "Transforming Institutions: Undergraduate STEM Education for the 21st Century" G. Weaver, W. Burgess, A. Childress and L. Slakey Editors. Purdue University Press; 10/15/15 pub date

(2011) "Hypochromicity in Red Blood Cells: An Experimental and Theoretical Investigation"; Alicia Garcia-Lopez, Akihisa Nonoyama, German Leparc, Luis Garcia-Rubio and Robert Potter.
BIOMEDICAL OPTICS EXPRESS August 2011 / Vol. 2, No. 8 / pgs1-18

(2007) Science Education in Florida; Gerry Meisels, Robert Potter and Tom Baird, Invited paper The Florida Humanist Journal, Winter 2007 pgs 4-10

2007 "Why Teachers Leave: Factors that Influence Retention or Resignation" Gladis Kersaint, Jennifer Lewis, Robert Potter and Gerry Meisels; Teaching and Teacher Education *Vol 23,Iss #6 pp775-794 (Available online 23 February 2006* doi:10.1016/j.tate.2005.12.004)

2006 "Glucosamine-induced increase in Akt phosphorylation corresponds to increased endoplasmic reticulum stress in astroglial cells"; Jason A. Matthews; Jonathan L Belof; Mildred Acevedo-Duncan, Robert L. Potter, Molecular and Cellular Biochemistry; 11/30/06 Springer online first DOI 10.1007/s11010-006-9358-5 and Vol. 298, pp109-123, 2007

2005 USDOE Proceedings On New Teacher Induction. "Effectiveness of an Induction Program for Career Change Mathematics and Science Teachers Measured by Student Performance", Gerry G. Meisels, Robert L. Potter, Gladis Kersaint, and Denisse L. Thompson. Coalition for Science Literacy at the University of South Florida, Janet Boatman, Michael Smith, Andi Ringer, Nancy Marsh, Marian Lauria-Davis, John Hilderbrand and Michelle Watts, School District of Hillsborough County, Judith Lombana and Angela Walters, Tampa Museum of Science and Industry

(2005) "Enhancing Teacher Preparation and Improving Faculty Teaching Skills: Outcomes and Lessons Learned from Implementing "Science That Matters" a Standards Based Interdisciplinary Science Course Sequence" Robert Potter and Gerry Meisels; Journal of Science Education and Technology ISSN: 1059-0145 (Paper) 1573-1839 (Online) Volume 14, Number 2' June 2005; Pages: 191 - 204

(2005) "Selective Decrease of Membrane Associated PKC-α and PKC-ε in Response to Elevated Intracellular O-GlcNAc Levels in Transformed Human Glial Cells"; Jason A. Matthews[1], Mildred Acevedo-Duncan[1,2], and Robert L. Potter[1,31] Department of Chemistry, University of South Florida, , [2]James A. Haley Veterans Hospital, Tampa, FL, 33620 Biochemica et Biophysica Acta 1734,305-315

(2003) "Science That Matters" Vol I, 2nd Ed.; A Modular, Standards Based and Interdisciplinary Approach to College Science for Future Teachers and Other Non science Majors, Kendall/Hunt Publishers, Robert Potter and Gerry Meisels Editors (ISBN 0-7575-0307-1).

(2003) "Science That Matters" Vol II, 1st Ed.; Modules to Support an Interdisciplinary Approach to College Science for Future Teachers and Other Non science Majors, Kendall/Hunt Publishers, Robert Potter and Gerry Meisels Editors (ISBN 0-7575-0018-8).

(2003) "It's Elemental: Building Blocks of Our World" A module for Science That Matters Vol II Jennifer Ascher and Robert Potter "Science that Matters" Vol.II, Kendall/Hunt Publishers 2003

(2002) "Characterization of the O-GlcNAc Protein Modification in *Xenopus laevis* Oocyte During Oogenesis and Progesterone Stimulated Maturation" Chad Slawson, Susan Shafii, James Amburgey, and Robert Potter, Biochimica Biophysica Acta Nov.2002, 1573 pp121-129

(2002) UV-visible Spectrophotometric Approach to Blood Typing II: Phenotyping of Subtypes A_2 and Weak D and Whole Blood Analysis; S. Narayanan, L Galloway, A. Nonoyama, G. Leparc, L.Garcia-Rubio and R. Potter , Transfusion vol.42, May 2002, 1-8

(2001): Increased N-acetyl-β-glucosaminidase Activity in Primary Breast Carcinomas Corresponds to a Decrease in N-acetyl-β-glucosamine Containing Proteins; C. Slawson, J. Pidala and R. Potter, Biochmica Biophysica Acta, 1537, (2001) 147-157

(2001) Biocatalytic Lactone Production in Genetically Engineered E-coli and Identification by Gas Chromatography and Mass Spectroscopy; C. Slawson, J. Stewart and R Potter, Journal of Chemical Education vol. 78, No. 11 November 2001

(2001) "Science That Matters" Vol I; A Modular Interdisciplinary Approach to College Science for Future Teachers and Other Non science Majors, White Oaks Publishers, Robert Potter and Gerry Meisels Editors

(2000) Light Scattering and Absorption Model for the Quantitative Interpretation of Human Blood Platelet Spectral Data; Y. Mattley, G. Leparc, R. Potter, L. Garcia-Rubio. Photochemistry – Photobiology. Vol. 71 (5): 610-619

1999) UV-Visible Spectrophotometric Approach to Blood Typing Objective Analysis by Agglutination Index; S. Narayanan, S. Orton, G. Leparc, L. Garcia-Rubio and R.L. Potter. Transfusion Vol. 39 October 1999, pp1051-1059

(1998) Multiwavelength UV/VIS spectroscopy for the Quantitative Investigation of Platelet Quality. Mattley Y.D., Leparc G.F., Potter R.L. and Garcia-Rubio L.H., Proceedings of SPIE Volume 3250 Optical Biopsy II Absorption.

(1995) Blood Characterization Using UV/VIS Spectroscopy. Mattley, Y., Mitrani-Gold, F. Orton, S. , Bacon, C. , Leparc, G. , Bayona, M., Potter, R. and Garcia Rubio, L.H. Proceedings of the Society of Photo-Optical Instrumentation Engineers, Vol. 2388.

(1993) Cascade Polymers. pH Dependence of Hydrodynamic Radii of Acid Terminated Dendrimers. Newkome, G.R., Young, J.K., Baker, G.R., Potter, R.L., *Audoly, L.*, *Cooper, D.*, Weis, Claus D., Morris, K., and Johnson, Jr., C.S. Macromolecules. # 26, 2394-2396.

(1991) Connective Tissue Growth Factor: A Cysteine-rich Mitogen Secreted by Human Vascular Endothelial Cells is Related to the SRC Induced Immediate Early Gene Product CEF-10. Bradham, D.H., Atsuyki, I., Potter, R.L. and Grotendorst, G.R. Journal of Cell Biology, Vol. 114, #6, 1285-1294.

(1990) Nucleoside Diphosphate Kinase from Xenopus Oocytes - Partial Purification and Characterization. Buczynski, G. and Potter, R.L. Biochem. Biophys. Acta. 1041, 296-304.

(1990) Isolation of Proteins from Commercial Beet Sugar Preparations. Potter, R.L., Bacheller, J.D., *Chassey, L.M.* and Mansell, R.L. Journal of Agriculture and Food Chemistry, Vol. 38, p. 1498-1502.

(1989). On the Development of an Immunoassay for the Detection of Beet Sugar in Apple Juice Products. Potter, R.L.; Bacheller, J.D.; *Chassey, L.M.* and Mansell, R.L Proceedings of the Processed Apples Institute Technical Seminar.

(1986) Reverse-Phase HPLC of Proteins and Nucleic Acids: Practical Considerations. Potter, R.L. and Lewis, R.V. In High Performance Liquid Chromatography Advances and Perspectives, C. Horvath, Ed., Academic Press, Vol. 4, 1-43.

(1986) Sequence and Organization of Genes Encoding the Human 27 KDa Heat Shock Protein. .Hickey, E., Brandon, S.E., Potter, R.L., Stein, G., Stein, J. and Weber, L.A. Nucl. Acids. Res. 14 #10 4127-4145.

(1983) Richardson, C. and Potter, R.L. "Changes in Nucleotide-Binding Proteins During Oocyte Maturation in Xenopus laevis." Developmental Biology 99, 240-247.

(1983) Potter, R.L. and Lewis, R.V. "A Comparison of Two New Anion Exchangers Using a Cell Homogenate." Liquid Chromatography and HPLC Magazine, Vol. 1, #1.

(1983) Potter, R.L. and Haley, B.E. Photoaffinity Labeling of Nucleotide Binding Sites with 8-Azido Purine Analogs. Methods in Enzymology, Vol. 91, Part I: Enzyme Structure, Hirs and Timascheft, ed.

(1981) Taylor, S.S., Kerlavage, A.K., Zoller, M.H., Nelson, N.C. and Potter, R.L. The Nucleotide Binding Sites and Structural Domains of cAMP-dependent Protein Kinases. Eighth Cold Spring Harbor Symposium on Cell Proliferation.

(1980) Potter, R.L. and Taylor, S.S. The Structural Domains of cAMP-dependent Protein Kinase I. J. of Biol. Chem. 255, 9706-9712.

(1979) Potter, R.L. and Taylor, S.S. Correlations of the cAMP Binding Domain with a Site of Autophosphorylation on the Regulatory Subunit of cAMP-dependent Protein Kinase II from Porcine Skeletal Muscle. J. of Biol. Chem. 254, 9000-9005.

(1979) Potter, R.L. and Taylor, S.S. Relationships Between Structural Domains and functions in the Regulatory Subunit of cAMP-dependent Protein Kinases I and II from Porcine Skeletal Muscle. J. of Biol. Chem. 254, 2413-2418.

(1978) Potter, R.L., Stafford, P.H. and Taylor, S.S. Regulatory Subunit of cAMP-dependent Protein Kinase I from Porcine skeletal Muscle; Purification and Proteolysis. Arch. of Biochem. and Biophys. 190, 174.

Technical Reports: (Note: Primary Author(s) underlined. Italicized names indicate undergraduate research students.)

Multi-University Reading, Mathematics and Science Initiative FSU/USDOE

1. Dec.2005 RESEARCH BRIEF Prime Award (152054321,CFDANo.84.215 Subcontract Number R00123) **"Understanding and Reducing Teacher Resignations"** G. G. Meisels, PI, Gladis Kersaint, Jennifer Lewis, and Robert Potter Coalition for Science Literacy at the University of South Florida

2. Aug. 2006 (Subcontract Number R00314) "Understanding Resignations of Science, Mathematics, and Reading Teachers (UR SMART) Phase II" Final Report Gerry Meisels, PI; Robert Potter and Jennifer Lewis, co-PIs ,CSL and Roger O'Brien, co-PI Polk County Schools

Boston Scientific/Vascular, Wayne NJ

1. April 2000 (4 pages) Carbohydrate Analysis: A Comparative Evaluation of Two Producers Collagen. S. Slawson and R Potter

Maverick Technologies, Inc. Largo FL

1. April 2002 (5 pages) Evaluation of Drug Release from Poly-vinylalcohol/Biomask Collagen Pellets A. Nonoyama and R. Potter

2. October 2001 (4 pages) "Evaluation of Drug Release Characteristics form Modified Biomask Collagen Pellets" A. Nonoyama and R. Potter

3. May 2000 (20 pages) Biomask Collagen: Evaluation of Viscosity and Changes During Product Aging V. Shastry S. Narayanan, R. Potter and L Garcia-Rubio

4. November 1999 (20 pages) Characterization of Biomask An Ablatable Collagen Material: Spectroscopic and Electrophoretic Analysis. S. Narayanan, V. Shastry, L. Garcia-Rubio, and R. Potter.

Ortho Diagnostics/Johnson and Johnson, Inc. Raritan NJ

1. November 1997 (10 pages) Blood Typing: Development of a Quantitative Assessment of Antibody Induced Aggregation. S. Narayanan, G. Leparc, L. Garcia-Rubio and R.L. Potter.

2. November 1997 (15 pages) Quantitative Analysis of Platelet Storage Data: Seven Day Storage Study and Spectroscopic Platelet Crossmatching. Y. Mattley, A. Rey, G. Leparc, L. Garcia-Rubio, and R.L. Potter.

3. November 1997 (4 pages) Examination of Ionic Strength Induced Structural Changes on Red Cell Spectroscopy. A. Nonoyama, L. Garcia-Rubio, R.L. Potter and G. Leparc.

4. July 1997 (30 pages) Chemometric Analysis of Whole Blood Data—ABO Antibody Sensitivity and Specificity—Analysis of Platelet Data and Modeling of White Blood Cells. C. Bacon, S. Narayanan, S. Orton, Y. Mattley, G. Leparc and L. Garcia-Rubio, R.L. Potter.

5. March 1997 (8 pages) UV-vis Characterization of Blood: Applications to the Blood Banking Industry. Luis Garcia-Rubio, G. Leparc, S. Narayanan, S. Orton, Y. Mattley and R.L. Potter.

Bausch and Lomb Pharmaceuticals, Inc.

1. March 1997 (3 pages) Recommendations on Collagen Shield Process: Yield Concerns and Bioburden Management. R.L. Potter.

2. December 1996 (10 Pages) Collagen Shield Dissolution Assay Final Report - BioCor I Dissolution Assay: Design and Recommendations. S. Patel-Cabrera, B. Rajendran and R.L. Potter.

3. September 1996 (7 pages) Evaluation of Large Volume Stirred Dissolutions: Design Parameters and Statistical Analysis. S. Patel, B. Rajendran and R.L. Potter.

4. June 1996 (18 pages) Collagen Shield Dissolution Analysis: BioCor I - Multilot Evaluation and BioCor II - Assessing Base Catalyzed Dissolution. S. Patel, *Diane Welson*, *T. Reidhammer*, and R.L. Potter.

5. April 1996 (18 pages) Collagen Shield Dissolution Analysis: Validating the Connection between Shield Dissolution and Absorbance in BioCor I and Initiating Dissolution while Minimizing Degradation in BioCor II, S. Patel, *R.L. Bryant*, *Diane Welson*, and R.L. Potter.

6. January 10, 1996 (14 pages) Initial Evaluation of Shield Dissolution Conditions Using Ultra-Violet Spectroscopy, *R.L. Bryant*, S. Patel, and R.L. Potter.

7. April 10, 1995 (4 pages) Electrophoretic Analysis of Bausch and Lomb Collagen - Quality Evaluation, *R.L. Bryant*, and R.L. Potter.

8. November 22, 1994 (8 pages) Collagen Research: Peptide Mapping Procedure as a Potential Quality Assurance Method, *J. Morgado,* and R.L. Potter.

9. April 4, 1994 (10 pages) Human Tear Fluid Analysis: Collagen Content Post Application of Non-Hydrated 12-Hour Corneal Shields and Pre-Hydrated 24-Hour Corneal Shields, Y. Mattley, and R.L. Potter.

10. March 1994 (8 pages), Tear Fluid Analysis From Individuals Wearing Corneal Shields: A Comparison Among Shields from Bausch and Lomb, Chiron, Oasis and Alcon, Y. Mattley, and R.L. Potter.

11. February 1994 (10 pages), Evaluation of Collagen in Tear fluid from Eyes Containing Collagen Corneal Shields, *R.L. Bryant*, Y. Mattley, and R.L. Potter.

12. September (3), October (2) and December (2), February (1) 1993 (8 pages each) Stability Analysis of Solution Collagen Continued, J. Throckmorten, Y. Mattley, and R.L. Potter.

13. August 1993 (10 pages) Error Analysis on the Estimation of the Relative Change in Tropocollagen Content of Bausch and Lomb Solution Collagen, J.H. Throckmorton, and R.L. Potter.

14. July 1, 1993 (21 pages) Solution Collagen Stability Analysis Continued - Statistical Relationships, J.H. Throckmorton, Y. Mattley and R.L. Potter.

15. May 11, 1993 (15 pages) Solution Collagen Stability Analysis: Electrophoresis and Circular Dichroism Continued, J.H. Throckmorton, Y. Mattley, and R.L. Potter.

16. April 1993 (29 pages) Solution Collagen Stability: Circular Dichroism Methods Development. J.H. Throckmorton, Y. Mattley, and R.L. Potter.

17. March 1993 (22 pages) Investigating the Gelatin Content of Bausch and Lomb Collagen: Protease Sensitivity Assays and Circular Dichroism, Y. Mattley, *R.L. Bryant*, and R.L. Potter.

18. January 1993 (12 pages) Collagen Cleavage Maps and Shield Degradation Patterns, Y. de Lama, *R.L. Bryant*, and R.L. Potter.

19. October 1992 (18 pages) Effects of Salt Concentration and Time on the Base Induced Extraction of Scleral Collagen. L. Galloway, *R.L. Bryant*, and R.L. Potter.

20. May 1992 (24 pages) Development of a Simple, Rapid and Quantitative Assay for Dissolution of Corneal Collagen Shields. L. Galloway and R.L. Potter.

21. March 1992 (4 pages) Chiron Shield Analysis - Preliminary Examination. L. Galloway and R.L. Potter.

22. December 1991 (34 pages) Base Extraction Procedures for Porcine Scleral Collagen Determining the Critical Parameters. L. Galloway and R.L. Potter.

23. August 1991 (35 pages) Spectroscopic Analysis of Base Extracted Collagen and a Comparison of Collagens from Skin and Sclera. L. Galloway and R.L. Potter.

24. May 1991 (34 pages) Size Exclusion and Electrophoretic Analysis of Collagen Glues and Protease Sensitivity as Probes for Tropocollagen Content. L. Galloway and R.L. Potter.

25. January 1991 (35 pages) Structural Analysis of Base Extracted Scleral Collagens and Spectroscopic Analysis of Shield Mold Materials. D. Turner and R.L. Potter.

26. October 1990 (23 pages) Isolation and Analysis of Individual Collagen Chains from Base Extracted Sclera and Developmental Collagen glue Analysis. D. Turner and R.L. Potter.

27. July 1990 (18 pages) Comparisons Between Base Extracted Scleral Collagen and Acid Extracted Skin Collagen - Preliminary Carbohydrate Analysis. D. Turner and R.L. Potter.

28. March 1990 (22 pages) Collagen Shield Dissolution Assay - Utility of Protease Degradation and Spectrophotometry. D. Turner and R.L. Potter.

Meta-Form Foundation

1. August 1995 (5 pages) Characterization of a Nutritional Silver-protein Supplement. *R.L. Bryant* and R.L. Potter

Patents and Licensing Agreements:

Spectrophotometric Method and Apparatus for the Cross-Matching of Platelets, L. H. Garcia Rubio, R. Potter, G. Leparc, S. Orten, Y. Mattley and C Bacon; US Patent # 7,691,642 B1 issued April 6, 2010

Spectrophotometric Method and Apparatus for determining the Viability of a Sample Containing Platelets, L. H. Garcia Rubio, R. Potter, G. Leparc, S. Orten, Y. Mattley and C Bacon.
US Patent # 6,984,526 issued January 10, 2006

Spectrophotometric Method and Apparatus for Blood Typing; L. H. Garcia Rubio, R. Potter, G. Leparc, S. Narayanan and S. Orten; US patent # 6,330,058 B1 issued Dec. 11, 2001

Spectrophotometric Method and Apparatus for the Characterization of Blood, Blood Types, and Other Bodily Fluids, L.H. Garcia Rubio, R.L. Potter, G. Leparc and M. Bayona. US patent #5,589,932 issued Dec. 31, 1996.

Immunoassay for the Detection of Beet Sugar, R.L. Mansell and R.L. Potter - US Patent # 5,128,243 issued July 1992.

Non-Exclusive licensing agreement to market a Bacterial Agarase isolated and characterized from the novel marine bacteria NR19 - Promega Biochemicals by Gregory Stewart (Biology) and Robert Potter (Chemistry), September 1994-2012

External Evaluation Reports

(2015) External program reviewer for Florida Atlantic University Chemistry Department 3/2015

(2014) Year 1 NSF TUES # 1244807: "Vertical Integration of Raman Spectroscopy into the Chemistry Curriculum" Florida Atlantic University, Consultant Report -3 pgs. August 2014 - Robert Potter.

(2011) Year 4 Formative evaluation for NSF-GK-12 "Project ChemBOND: The Next Generation" Florida Atlantic University 7 pgs. 12/08/12

(2010) Year 3 Formative evaluation for NSF-GK-12 "Project ChemBOND: The Next Generation" Florida Atlantic University 6 pgs. 10/12/10

(2010) Year 3 Formative evaluation for NSF-CCLI Grant "Shifting Responsibilities: When Chemistry Replaces First-year College Writing (Honors General Chemistry II and Writing Across the Curriculum) Chemistry Florida Atlantic University 3pgs. 11/02/10

(2009)Evaluation of Ten Florida USDOE Title II Science Partnership Grants"G. Meisels PI, R. Potter

(2009) Year 2 Formative evaluation NSF-GK-12 "Project ChemBOND: The Next Generation" Florida Atlantic University 5pgs. 10/12/09

(2009) Year 2 Formative evaluation for NSF-CCLI Grant "Shifting Responsibilities: When Chemistry Replaces First-year College Writing (Honors General Chemistry II and Writing Across the Curriculum) Chemistry Florida Atlantic University 3pgs 11/02/09

(2008) Year 1 Formative evaluation for NSF-CCLI Grant "Shifting Responsibilities: When Chemistry Replaces First-year College Writing (Honors General Chemistry II and Writing Across the Curriculum) Chemistry Florida Atlantic University 3pgs 8/25/08

(2008)Year 1 formative evaluation NSF-GK-12 "Project ChemBOND: The Next Generation" Florida Atlantic University Chemistry department 6pgs. 10/1/08

Meeting Presentations/Invited Talks: (Presenter(s) underlined)

(2022) R. Potter, P. Stiling, H. BC, C. Beneteau, and R. Sears, "STEERing a Systemic Path to Improved College STEM Teaching," AAC&U Transforming STEM Higher Education Conference: "Back to Broken", Nov. 3-5, 2022Washington DC.

(2019) AAC&U Transforming STEM Higher Education Conference, *Ruthmae Sears*, and Robert Potter, 2019. "Using professional development to support STEM laboratory teaching assistants.", Chicago, IL, November 7-9, 2019.

(2019) Bay View Alliance Annual Members Meeting; presented "Shifting Teaching Culture at USF: Role of the NSF "STEER" Project"; Robert Potter and Gerry Meisels June 2-4 Indiana University, Bloomington IN.

(2019) Network of STEM Education Centers (NSEC) National Conference "Supporting STEM Lab Teaching Assistants Enactment of an Effective Operational Curriculum via a Year-Long Professional Development Initiative" Ruthmae Sears and Robert Potter; Omaha, Nebraska May 31-June 2, 2019.

(2019) Robert Potter Participant Invited Workshop: Essential Questions and Measures: Assessing Institutional Transformation of Undergraduate STEM Education; sponsored by Association of American Universities (AAU) and NSF in Washington, D.C. on February 6 -7, 2019**.**

(2018) Association of American Colleges and Universities (AACU), Transforming STEM Higher Education "Peer Advising for STEM Transfer Student Success: A Community College-University Partnership" Robert Potter—University of South Florida; James Wysong—Hillsborough Community College; Atlanta GA Nov.8-10

(2018) Meisels, G., Potter, R. "From building capacity to creating cultural change in research-intensive STEM departments." AAC&U 2018 Transforming STEM Higher Education Conference. Atlanta, GA. November 8-10, 2018.

(2018) Network of STEM Education Centers (NSEC) 2018 National Conference "Reinvigorating the Leadership of a Project to Promote Evidence-Based Teaching Strategies or How to Re-Engage an influential but Busy Team" Robert Potter, Ruthmae Sears, James Wysong, Eric Banilower, Gerry Meisels and Kevin Yee; Columbus Ohio June 6-8, 2018

(2018) National Student Success Conference, Tampa FL February 22-23, 2018 "STEERING Community College Transfer Students Toward Success in STEM – A Peer Approach" Robert Potter, Jim Wysong, Mary Goodwin and Jaime Feliciano

(2017) Science and Math teacher Imperative (SMTI)/Accelerating Systemic Change Network Conference/Workshop. New Orleans LO, June 24-25, 2017. "STEER"ing the Systemic Approach to Improving Learning: Shifting Culture to Evidence-based teaching at a Research Intensive University: Ruthmae Sears, Robert Potter and Gerry Meisels; (one of four case studies highlight for program)

(2016) USF System STEM Education Summit Tampa FL October 13th 2016 "STEER"ing Our Way to Greater Student Success: a Hillsborough Community College - University of South Florida Partnership Robert Potter

(2014) Transforming Institutions: 21st Century Undergraduate Education Conference October 23-24, 2014; NCAA Hall of Champions Indianapolis Indiana "Planning Transformation of STEM Education in a Research University" G. Meisels, R. Potter, P. Stiling, J. Lewis, C. Beneteau, K. Yee, R. Pollenz

(2014) Special Forces Education conference, Joint Special Forces University Tampa FL May 8th 2014 "Developing Quality Curriculum- a University Approach" Robert Potter

(2012) National Science Teachers Association National Meeting April1-4 Indianapolis IN, "Leadership for Integrated Middle School Science (LIMSS)" L. Byrd, D. Kuhling, P. Caffery, Hillsborough Co. Public School and R. Potter and S. Schlichting University of South Florida

(2006) National Summit on Recruiting and Retaining Quality Teachers. Arlington VA Nov.28-29; "Recruiting and Retaining Quality Mathematics and Science Teachers" Gerry Meisels and Robert Potter

(2006) Southeastern Association of Employers in Education (SAEE). Huntsville January 2006 "Identifying and Keeping Teachers Most Likely to Resign" Gerry Meisels, Gladis Kersaint, Jennifer Lewis, and Robert Potter

(2005) Florida Association of School Personnel Administrators (FASPA) Daytona Beach November 2005, "Identifying and Keeping Teachers Most Likely to Resign" Gerry Meisels, Gladis Kersaint, Jennifer Lewis, and Robert Potter

(2004) Southern Association of Colleges and Schools (SACS). Annual Meeting. Dec 4-7 Atlanta GA; "Enhancing General Education: Participatory Assessment by Faculty and Students" Terri Flateby, Bruce Cochrane, Zachary Holladay and Robert Potter

(2004) University of Central Florida Deans, Directors, and Chairs Meeting Sept. 9, Orlando FLSAC's Reaccreditation as Opportunity: Quality Enhancement Planning" R. Potter

(2003) Southern Association of Colleges and Schools (SACS). Annual Meeting. Dec 6-9 Nashville TN "Results and Benefits of a General Education Assessment" Terri Flateby, Bruce Cochrane, Melissa Schindler and Robert Potter (Round table).

(2003) PITTCON International Analytical Conference March 9-13, Orlando FL; "Investigating Hypochromism in Red Blood Cells Using UV-visible Spectroscopic Analysis" A.Nonoyama, L.Garcia-Rubio, and R. Potter

(2002) Moffitt Cancer and Research Institute, Research in Progress Seminars Series, Nov. 7th "Protein Monoglycosylation: Connections Between Glucose/glucosamine Metabolism, Signal Transduction and Cell Proliferation" R. Potter

(2002) SENCER (Science Education for New Civic Engagements and Responsibilities) Second Summer Institute Santa Clara CA, (Aug 3-7), sponsored by AACU/NSF presented "Science That Matters", Progress and Outcomes of a Standards Based Active Learning Science Teaching Approach, R. Potter, B. Cochrane and G. Meisels

(2001) Southeastern Association of Educators of Teachers of Science; October 12-13, Tampa Florida, "Elementary School Teachers Survey of Preservice Preparation and Inservice Needs" R. Potter and G. Meisels

(2001) SENCER (Science Education for New Civic Engagements and Responsibilities) First Summer Institute Santa Clara CA, (Aug 3-7), sponsored by AACU/NSF presented "Science That Matters", An Active Learning Conceptual Approach to College Science Progress on the Sun Coast, R. Potter, I Bartsch, Armstrong, B. Cochrane and G. Meisels

(2001)Twelfth International Conference on College Teaching and Learning, Apr.18-21 Jacksonville FL "Survey of Florida Teachers on Preservice Preparation and Inservice Needs" R. Potter and G Meisels

(2000) Eleventh International Conference on College Teaching and Learning, Apr. 12-15 Jacksonville FL "Science That Matters": A Regional Approach to Improving Teacher Preparation and "Science That Matters"; Modular Interdisciplinary Science for Non-Majors, Pilot Study Results R. Potter and G Meisels

(2000) Dept. Pharmacology, University of South Florida, Apr.6th, "Blood In the Afternoon: New Ways of Analyzing Complex Cellular Systems Using an Old Technology" R. Potter

(2000) State University System meeting: Focus On Teacher Preparation and Professional Development Mar.28th , Orlando FL, presented "Science That Matters"-A Modular Integrated Course for Elementary Education Majors and Other Non-SMT Majors R. Potter and G Meisels

(1999) Florida Higher Education Consortium Annual meeting Nov 3-5 Orlando Fl. "New Interdisciplinary Science Course for Nonmajors/Future Teachers: So much for Theory –How is it Working" R Potter and G. Meisels

(1998) Florida Southern College, Lakeland, Florida, December 9. "Changing the Face of College Science for Non Majors/Future Teachers: Whys and Hows." R.L. Potter.

(1998) Florida Higher Education Consortium Annual Meeting Nov. 11-13 Deerfield Beach, FL. "New Broad-Based Science Course for Non Majors/Future Teachers: Progress on the Sun Coast." R.L. Potter.

(1998) Florida Association of Science Teachers, Annual Meeting, Tampa, FL, Oct. 16-17. "A Dialogue: Assessment and Standards for 21st Century Science." R.L. Potter, B. Ephrain and G. Meisels.

(1998) Ortho Diagnostic Corp. Raritan, New Jersey, July 21, 1998. Blood Typing Using A Spectrophotometric - Derived Agglutination Index. R. Potter, S. Narayanan, G. Leparc and L. Garcia-Rubio.

(1998) Florida Association of Science Supervisors Annual Meeting, Cocoa Beach FL, May 5th and 6th. High School Integrated Science Materials Preparation and Teacher Professional Development. R.L. Potter, G. Meisels and B. Teklehaimanot.

(1998) Florida American Chemical Society Annual Meeting, May 8th and 9th, Orlando Florida. Biomolecular Structure and Function Symposium, "Novel Cytoplasmic Glycosylation in Proliferative Systems." Robert L. Potter and Chad Slawson.

(1997) 17th Annual Lilly Conference on College Teaching, Miami University, Ohio, Nov. 20-23, Developing an Integrated College Science Course for Future Teachers and Other Non-Technical Majors: A Modular Approach. Robert L. Potter, Gerry Meisels and Bibi Teklehaimanot.

(1997) Ortho Diagnostics Corp. Raritan New Jersey, Nov. 5, 1997. Development of a Quantitative Blood Typing Method. R.L. Potter, S. Narayanan, L. Garcia-Rubio and G. Leparc.

(1997) Eighth National Conference on College Teaching Learning, Jacksonville, FL, April 16-19, Developing a Modular Course for General Science. Gerry Meisels, Robert L. Potter and Donna Henry.

(1997) Florida Academy of Sciences, Edison Community College, Punta Gorda, FL, March 13-15, Symposium on "The Sunshine State Standards and their Impact on the Introductory Science Course" - Developing Regional Agreement on the Principles for a New Course, Robert L. Potter.

(1996) Department of Pharmacology University of South Florida - N-Acetyl Glucosamine, a Novel Cytoplasmic Glycosylation: Potential Role in Signal Transduction and Cell Proliferation, Robert L. Potter.

(1996) Department of Chemical Engineering, University of South Florida - Blood Analysis: Interfacing Chemical Engineering and Biochemistry, Robert L. Potter.

(1995) American Chemical Society, Florida Section, Annual Meeting, Orlando, Florida, May 5-6 Symposium on Macromolecular Structure/Function and Methods of Analysis - Applications of a Novel UV-Visible Spectroscopic Technique: Light Scattering Spectral Deconvolution to the Analysis of
Protein Structure and Aggregation. Robert L. Potter, Jeff Throckmorton, Yvette Mattley, Luis Garcia-Rubio.

(1995) American Chemical Society, Florida Section, Annual Meeting, Orlando, Florida, May 5-6. General Biochemistry Session - "An Unusual Combination: Xenopus Laevis Oocytes Contain Both Arginine Kinase and Creatine Kinase." W.C. Coppola and R.L. Potter.

(1995) Society for Photo-Optical Instrumental Engineering Feb. 6-9) San Francisco, CA, Blood Characterization Using UV/VIS Spectroscopy, Y. Mattley, F. Mitrani-Gold, S. Orton, C. Bacon, M. Bayona, G. Leparc, R. Potter and L. Garcia Rubio.

(1993) USF College of Medicine, Research Seminar Series, November 12, Tampa, Florida, Tracking the Effects of Thio-Substituted Nucleotides on Signal Transduction in Oocyte Maturation, Robert L. Potter.

(1993) American Chemical Society Florida Section Annual Meeting, May 6 and 7, Orlando, FL. Symposium Macromolecular Structure and Function. Xenopus Oocyte Maturation: Phosphorylation Targets. Robert L. Potter and Karl Kovacs.

(1992) Sun Coast Biotechnology Conference, October 1-3, Tampa, FL, Arborols: Characterization of Polyacid Dendritic Macromolecules. *D.C. Cooper*, G.R. Newkome and R.L. Potter.

(1992) Sun Coast Biotechnology Conference, October 1-3, Tampa, FL, Novel Synthesis and Utilization of 8-azido-GTP for the Identification and Study of GTP-Binding Proteins. G.A. Hunter and R.L. Potter.

(1992) Department of Biology, University of South Florida Spring Seminar Series, Characterization of Oocyte Nucleoside Diphosphate Kinase: Implications for the Study of Second Messenger Systems, R.L. Potter.

(1992) Technologies on Protein Studies and Purification Grenoble CEA-CEN France. Determining a UV/VIS Model for Tyrosine Use of Model Molecules for the Spectroscopy Analysis of Proteins. J. Throckmorton, R. Potter and L. Garcia-Rubio.

(1991) American Cancer Society, Florida Division Annual Meeting, Orlando, FL, March. Identification of Oocyte Stathmin as a Major in vivo Substrate for the cAMP-dependent Protein Kinase and for Labeling with Microinjected □-^{35}S-ATP or GTP. Kovacs, K.F. and R.L. Potter.

(1990) American Chemical Society 200th National Meeting, Washington, D.C. Symposium on New Methods to Detect Adulteration of Fruit Juice Beverages - Adulteration and the Immunoassay: Using Antibodies to Detect Commercial Beet Sugar, R. Potter and R. Mansell.

(1990) Suncoast Biotech Conference - St. Petersburg, Florida. Development of Immunoassays for the Food Industry: Determination of Quality/Purity, R. Potter.

(1989) Processed Apples Institute Technical Seminar. Raleigh, North Carolina. "On the Development of an Immunoassay for the Detection of Beet Sugar in Apple Juice", R. Potter and R. Mansell.

(1988) International Fruit Juice Processors Meeting. Orlando, Florida, "Isolation of Proteins from Beet Sugar", R. Potter and R. Mansell.

Workshops/Other Presentations (Presenter underlined)

(2022) 2nd Virtual Follow up STEM TA workshop Oct 28th (half day workshop) **"STEERING" Again: Promoting Effective Teaching Practices (Face to Face)** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported by Coalition for Science Literacy and CAS

(2022) New STEM Teaching Assistant 3 day workshop Aug.15-17; **"STEERING" the Course to Promote Effective Teaching Practices in the Laboratory, (Face to Face** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported by NSF "STEER" grant DUE 1525574 and CAS

(2022) 2d Follow up STEM TA workshop Mar.25 (half day workshop) **"STEERING" Again: Promoting Effective Teaching Practices (Face to Face and Online)** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2021) 1st Virtual Follow up STEM TA workshop Oct 28 (half day workshop) **More "STEERING" the Course to Promote Effective Teaching Practices in STEM Laboratories (Face to Face and Online)** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2021) New STEM Teaching Assistant Virtual 2 day workshop Aug.18-19; **"STEERING" the Course to Promote Effective Teaching Practices in the Laboratory, (Face to Face and Online)** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2021) 3d Virtual Follow up STEM TA workshop Feb.19 (half day workshop) **"STEERING" Again: Promoting Effective Teaching Practices (Face to Face and Online)** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

2021) 2nd Virtual Follow up STEM TA workshop Feb.19 (half day workshop) **"STEERING" Again: Promoting Effective Teaching Practices (Face to Face and Online)** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2020) 1st Virtual Follow up STEM TA workshop Oct 23 (half day workshop) **More "STEERING" the Course to Promote Effective Teaching Practices in STEM Laboratories (Face to Face and Online)** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2020) New STEM Teaching Assistant Virtual 2 day workshop Aug.18-19; **"STEERING" the Course to Promote Effective Teaching Practices in the Laboratory, (Face to Face and Online)** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2020) 2nd Follow up STEM TA workshop Feb.14 (half day workshop) **"STEERING" Again: Promoting Effective Teaching Practices** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2019) 1st Follow up STEM TA workshop Oct 11 (half day workshop) **More "STEERING" the Course to Promote Effective Teaching Practices** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2019) New STEM Teaching Assistant Three-day workshop Aug.20-22; **"STEERING" the Course to Promote Effective Teaching Practices in the Laboratory Classroom** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2019) 2nd Follow up STEM TA workshop Mar 8 (two half day workshops) **Still More "STEERING" the Course to Promote Effective Teaching Practices** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2018) 1st Follow up STEM TA workshop Oct 19 (two half day workshops) **More "STEERING" the Course to Promote Effective Teaching Practices** Bob Potter and Ruthmae Sears, for ***1st year USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2018) **"STEERING" the Course to Promote Effective Teaching Practices within STEM Laboratories;** Facilitators: Bob Potter and Ruthmae Sears, Three day workshop Aug. 14-16 for ***New USF STEM Graduate Students/TA's*** Supported NSF "STEER" grant DUE 1525574 and CAS

(2016) "Harnessing the Beast: Project Management Before During After" working group session at the National Science Foundation and AAAS co-sponsored conference EnFuse: Envisioning the Future of Undergraduate Education" Robert Potter, Margaret Franzen, Carrie Diaz Eaton, Jamie Schneider, Edward Berger, Debra Major, Steve Hsiung, Karen Olmstead, April 27-29 2016Washington D.C.

2011"Leadership for Integrated Middle School Science" (LIMSS) USDOE IES grant workshop; Assessing collaboration and team planning: PLC Professional development programs. R. Potter, Pam Caffery and S. Schlichting. Jan.22, 2010 Jennings Middle School Tampa Fl

2010 Workshop on collaborative teaching and effective science instruction in the classroom: Part of the "Leadership for Integrated Middle School Science" (LIMSS) USDOE IES grant workshop series R. Potter, Pam Caffery. Natures Classroom Tampa Fl; Dec. 4, 2010

2010 Teacher Leadership Revisited: workshop for teacher leaders looking at their evolving ideas on leadership and collaboration; a summer Institute debrief .Part of "Leadership for Integrated Middle School Science" (LIMSS) USDOE IES grant workshop series. R. Potter, Andi Ringer and S. Schlichting. Sept.11, 2010 Jennings Middle School Tampa Fl

2010 Teacher Summer Institutes: Teacher leaders- lead summer institutes for their second generation teacher teams Teacher leaders facilitate R. Potter, Andi Ringer and S. Schlichting coordinate July 26-29 and August 2-5 Jennings Middle School Tampa Fl

2010 Workshop: Preparing teacher leaders for delivering the summer Institute for their peers; R. Potter Donna Marshall and S. Schlichting; Part of "Leadership for Integrated Middle School Science" (LIMSS) USDOE IES grant workshop series. May 12, 2010 Natures Classroom Tampa Fl

2010 "Leadership for Integrated Middle School Science" (LIMSS) USDOE IES grant workshop on "Peer mentoring:" R. Potter, Donna Marshall and Pam Caffery, March 27th,2010 Jennings Middle Scholl Tampa Fl

2010 "Identifying Effective science resources and preparing for second generation teachers summer institute". Part of "Leadership for Integrated Middle School Science" (LIMSS) USDOE IES grant workshop series. R. Potter, Donna Marshall and D. Zeidler Jan. 9,2010 ,2010 Jennings Middle Scholl Tampa Fl

2009 Workshop for New Alternant Entrant teachers Hillsborough Co. FL "Teaching Reading in Science: Strategies to help students make sense of science from text books (from graphic organizers to reflective questioning) Robert Potter, Ken Caswell and Sandi Schlichting Dec 5th Tampa Fl

2009 "Leadership for Integrated Middle School Science" (LIMSS) Focus on: Reflections on Teacher Progress with Inquiry; Paper vs. plastic Lesson Analysis; Examination of Effective Science Instruction: what does research tell us; Effects of Top-Notch Teachers on Their Peers; What is important for your Peers?; Introduction to Coaching and Preparing and Sharing Posters from Science Scope Articles. Robert Potter, Donna Marshal, Sandi Schlichting and Andi Ringer, Oct.15 2009 Natures Classroom Tampa FL

2009 Summer Institute "Leadership for Integrated Middle School Science" (LIMSS) Focus on: Teacher Leadership for Science, Inquiry and Engaging Instruction, Socioscientific Issues for Engagement, Nature of Science Revisited, , Integrating Assessment to Improve Instruction ; R. Potter, D. Zeidler and L. Chew June 8-11 and 14-19Tampa FL

2009 "Leadership for Integrated Middle School Science" (LIMSS) Data analysis and graphing; Characteristics of quality curricular materials and Teacher Leadership case study; R. Potter Jan 10 Tampa Fl

2008 "Leadership for Integrated Middle School Science" (LIMSS) Questioning strategies to engage students, Position driven discussions and an Further examinations of inquiry; R. Potter and J. McKinney Oct 17th Tampa Fl

2008 Summer Institute "Leadership for Integrated Middle School Science" (LIMSS) Focus on teacher Leadership, Nature of science, How People Learn and Inquiry Based Instruction ; R. Potter, D. Zeidler and L. Chew July 21-Aug 1 Tampa FL

2008 Workshop for New Alternant Entrant teachers Hillsborough Co. FL "Examining what students think and bring to the classroom: Implications for teaching". R. Potter July 31

2007 Workshop for Hillsborough Co. Middle School science teachers "Teaching Reading in Science: Strategies to Increase Student Comprehension and Understanding" Ken Caswell. Leila Amiri and Robert Potter. Sept 29th

2007 Workshop for Hillsborough Co. Middle School science teachers. "How People Learn: What do we Need to Know? Ken Caswell and Robert Potter July 29th 2007

2006 Invited Participant USDOE Eastern Regional meeting of Mathematics and Science Partnerships grantees. Orlando Florida, Feb. 17-19, 2006

2006 Workshop for Hillsborough Co. Middle and High School science teachers. "A Private Universe Building Students Conceptual Understanding" J. Lewis and R. Potter January 16, 2006

2006 Workshop for Middles School science teachers, "Why is Changing Student Thinking So Difficult ?: Reflections on Instructional Practices" J. Lewis and R. Potter May 30, 2006

2005 Middle and High school Teacher workshop for New teachers In Hillsborough Co. "Reading in Science: Strategies for Improving Students' Understanding of What They Read" Elaine Howes, Leila Amiri and Robert Potter. Oct.15th Florida Advanced Technology and Engineering Center Brandon FL

2005 Facilitator and presenter at NSF sponsored Quantitative Literacy workshop "Spreadsheets Across the Curriculum" Olympia Washington July 26-29 Facilitated spreadsheet module dev. and presented "Science That Matters" An Interdisciplinary Science Course Sequence for Nonscience Majors.

2005 High school Teachers workshop for New Teachers in Hillsborough Co. "The Implications of Prior Knowledge", Presenters Jennifer Lewis, Ken Caswell and Robert Potter, July 18th 2005 Gaither High school Tampa FL

2005 Middle School Teachers workshop for New Teachers Hillsborough Co. "How Do We Uncover Students' Prior Conceptions?" Jennings middle school Seffner FL July15th, 2005 Presenters Jennifer Lewis and Robert Potter

2005 June 13 Invited speaker for School District of Hillsborough Co. Integrated Science Workshop. Presented "Lessons learned from Implementing "Science That Matters" a Standards-based Interdisciplinary College Science Course Sequence" R. Potter

2004 Aug.28 New Teacher Support Workshop Series 2004 "Can You Believe Your Eyes Why Achieving Real Student Learning is So Difficult (Role of prior knowledge and misconceptions). Jennifer Lewis and Robert Potter

2004 July 19-23 Invited participant for USF Center for 21st Century Teaching Excellence Workshop "Increments and Transformations: Using Technology to Enhance Teaching and Learning"

2004 July 12-16 Hillsborough Co. Schools facilitator for New Teacher Workshop and Presented with Dana Zeidler "Modeling the Learning Cycle and Nature of Science using the Periodic Puzzle"(July 15)

2004 April 6 Manatee Community College individual presentations to College Administration, Science and Education faculty and advising staff on progress of Phi Theta Kappa/NSF initiative "Preparing Future Science and Mathematics Teachers at Community Colleges". D. Wedler-Johnson, N. Johnson, F. Rizk and R. Potter

2004 Phi Theta kappa/NSF "Preparing Future Mathematics and Science Teachers at Community Colleges" Planning Institute, Feb 20-22, 2004 Washington D.C. Team members Darlene Welder-

Johnson, Felix Rizk, Nancy Johnson, Manatee Community College and Robert Potter, University of South Florida

2003 Dec.13, University of South Florida "SCIENCE THAT MATTERS II"(STM II) Instructors Workshop, R. Potter A workshop for multi institution instructors to focus on outcomes and familiarize instructors with new materials for the second semester of "Science That Matters"

2003 Dec 9-10, Fairmont State College "SCIENCE THAT MATTERS II"(STM II) Instructors Workshop, R. Potter A workshop for instructors of the second semester of the STM science course sequence to familiarize them with Volume II STM material

2003 (Nov.22) School District of Hillsborough Co "Reflective Teaching: Instruction that Begins with What Students Know, Minimizes Misconceptions and Maximizes Understanding" J. Lewis and R Potter. The second workshop in a series of workshops for SDHC new high school teachers.

2003 (July18), Gather High School "Models in Science: The Building of Conceptions and Misconceptions." A workshop for new Hillsborough Co. High school teachers. J. Lewis and R. Potter

2003 May 9-10, University of South Florida "SCIENCE THAT MATTERS" New Instructors Workshop, R. Potter. A workshop for new instructors from multiple regional Institutions.

2003 (Jan. 9), Fairmont State College, Fairmont West Virginia; "Science That Matters" Who, What, Why, and How (We do it), A Workshop on New Approaches for Teaching Interdisciplinary Science.
R Potter

2002 (Feb.18) Hillsborough County Science Teachers Professional Study Day, Alonso High School, Tampa, "Emerging Trends in College Chemistry: New Opportunities and Resources"
J. Lewis and R. Potter

2002 (August 22) USF Center For Teaching Enhancement Workshop for new Faculty and Graduate Students, "Teaching and Learning Science: What Should We Know and Do?" R. Potter

2001 (Aug 24) USF Center for Teaching Enhancement Workshop for New Faculty and Graduate Students, presented "Discovering Science: Current Issues in Teaching Today's University Students" R. Potter and G. Meisels

2001 (July 9-13), Florida Mathematics and Science Teacher Professional Development Program Workshop: Force and Motion, St. Petersburg Fl, G. Foster, and R. Potter

2000 (Nov 9-11), 9th Annual Florida Higher Education Consortium St. Petersburg FL. "Assessing the Learning Outcomes of an Interdisciplinary Science Course", I. Bartsch and R. Potter

2000 (Aug. 13-15), Invited participant Florida Collaborative for Excellence in Teacher Preparation; Faculty Teacher Forum: Summer 2000, Orlando FL

2000 (May 19), St Leo's University and the Coalition for Science Literacy sponsored meeting on Teaching Interdisciplinary Science: Examination of Several Model Program, presented "Science That Matters": Evaluation of a Pilot Program R. Potter

2000 (Jan. 22), American Association of Colleges and Universities and NSF; Washington D.C.; Science Education for New Civic Engagements and Responsibilities (SENCER) R. Potter presented Issues Based Interdisciplinary Science

2000 (Jan. 24-25) Forging Florida's Future in a High Technology World: Linking Leadership for Excellence in Mathematics, Science and Technology Education , Kennedy Space Center, Fl. Invited round table discussion, business ,government and academic community.

1999 (Oct. 22) Organized and facilitated Florida Region IV of the Higher Education Consortium Fall meeting. Presented: "New Florida Teacher Competency Standards" and "Efforts in Launching an Interdisciplinary Course for Nonmajors"

1999 (May 11, 1999) Saint Leo College Workshop for Regional Community College, College and University Faculty: Critical Thinking in Interdisciplinary Science Courses. Co-facilitators, D. Touchton and R. Potter

1999 (May 7-8) NSF- Teacher Preparation PI Workshop: Teacher Education from Preparation to Practice Washington D.C. Presented " Interdisciplinary Science for Nonmajors/Future Teachers"

1999 (Feb. 5-6) St. Petersburg, FL., Third Group Science Module Writers Workshop - 2nd two-day workshop for 4th module writers group. Directed program and led sessions on: Examination of Active Learning Strategies and Assessment: How Do We Know What Students Are Thinking?

1999 (Jan. 25-26) Tallahassee, FL., Florida A & M University Workshop for Science Faculty. Teaching Science in the 21st Century. Presented What Brain Research Tells About Learning; Critical Thinking in the Science Classroom and Rethinking Assessment for Better Learning Outcomes.

1999 (Jan 7-8) St. Petersburg, FL., Third Group Science Module Writers Workshop - two-day workshop for 4th module writers group. Co-directed with G. Meisels and presented Science Content: What Does an Educated Citizen Need to Know; The Sun Coast Approach: A Modular Science Course; What Brain Research Tells Us About Learning and Critical Thinking in the Science Classroom.

1998 (August 12-13) St. Petersburg, FL. Science Module Writer's Workshop - Co-directed First Workshop for 3rd group of module writers designed to aide authors in developing modules for new non majors/future teachers science course- presented: What Brain Research Tells Us About Learning" and "Incorporating Results of Brain Research into Activities."

1998 - (September 18-19) St. Petersburg, FL. Science Module Writers Workshop. - Co-directed Final workshop for 2nd group of module writers - my parts: "Teaching Critical Thinking-Presentation and Activity," coordinated day two of workshop and lead section on "Assessment to Inform and Enhance student Learning."

1998 - (June 3-5) Tampa, FL. Preparing for the 21st Century: Helping College Students Learn Science - A Workshop for Faculty - Organized and delivered by R.L Potter, G. Meisels and B. Teklehaimanot. - Presented sections on "Brain Research and Learning," "Teaching Critical Thinking and Assessing Students Understanding."

1998 - (June 9-12) Sarasota FL. Teaching Science for the Next Millenium: A workshop for HighSchool and Middle School Teachers. Organized and delivered by R.L. Potter, G. Meisels and B. Teklehaimanot.

1998 (June 23-26) Land O'Lakes, FL. Teaching for Science Literacy: A High School Teachers Summer Workshop. Organized and delivered by R.L. Potter, G. Meisels and K. Thomas.

1998 - Florida Academy of Science Meeting - Led day-long workshop on Integrated College Science for Non-science Majors. R.L. Potter, G. Meisels, B. Teklehaimanot and M. Maroni, Orlando Florida, March 27, 1998.

1997 - The State of Florida's Higher Education Consortium Regional Meeting – Improving Science Education for Non-Majors," R.L. Potter. Tampa FL, November 6, 1997.

1997 - The Education Channels Community Forum Program. "Science Education Reform"- Panel Discussion, G. Meisels, N. Marsh and R. Potter. Tampa FL, September 1, 1997.

1997 - Sun Coast Area (Regional) K-12 Science Supervisors Meeting. "Potential Synergism Between Districts, the Sun Coast Area Center for Educational Enhancement and the Coalition for Science Literacy." August 27, 1997.

1996 - Florida State-wide Teleconference: Implications of Natural (NSES) and Florida (SSS) Science Education Standards on College Courses (panel member). October 1996.

1995 - Bloomingdale High school - "Chemistry and It's Effects on Your Daily Lives."

1994 - University of South Florida - "Lifting the Vail: A conversation about scientific inquiry and gender," a panel discussion.

1994 - Great American Teach In - Jefferson High School - "Biochemistry as a Profession."

1994 - NSF-State Systemic Initiative Regional Meeting, Desoto County, "Blue Print 2000 Goal #2 Committee Recommendations."

Abstracts and Posters Presented at Meetings:

(2020) Network of STEM Education Centers (NSEC) National Conference. Ruthmae Sears, Robert Potter. Gerry Meisels, and Kelly Schuler, 2020. "Using professional development to support equitable learning opportunities in STEM lab settings." Virtual. NSEC 2020.

(2019) Network of STEM Education Centers (NSEC) National Conference "Utilizing Effective Features of Professional Development to Support STEM Lab Teaching Assistants to Exhibit Good Teaching Practices" Ruthmae Sears and Robert Potter; Omaha, Nebraska May 31-June 2, 2019.

(2018) Network of STEM Education Centers (NSEC) 2018 National Conference "Teamwork makes the Dream Work: Systemic Transformation of Education through Evidence-Based Reforms" Ruthmae Sears, Robert Potter and Gerry Meisels Columbus Ohio June 6-8, 2018

(2017) SMTI/ASCN Conference on Diversity and Inclusion in STEM June 24-25 New Orleans LO. "On the Road to Culture Change: Making Evidence-Based Teaching the Norm in STEM at a Research 1 University"; R. Sears, R. Potter, A. Helip-Wooley, S. Campbell, and G. Meisels

(2016) National Science Foundation and AAAS co-sponsored conference EnFuse: Envisioning the Future of Undergraduate Education" presented: "*On the Road to Culture Change: Making Evidence-Based Teaching the Norm in STEM at a Research 1 University*" R. Potter, A. Helip-Wooley, M. Goodwin, P. Stiling, J. Wysong and G. Meisels April 27-29 2016Washington D.C.

(2010) USDOE Institute for Education Science Fourth Annual Research Conference Developing Teacher "*Leadership to Support Effective Middle School Science*" Robert Potter College of Arts and Sciences, Dana Zeidler College of Education, University of South Florida Andi Ringer, Sandi Schlichting School District of Hillsborough Co. June 27-June 30, 2010Washington DC.

(2009) American Evaluation Annual Conference "Marketing of Science Teachers and Induction (MOSTI):*An Eclectic Evaluation Approach to the Improvement of Science Teacher Recruitment, Education and Retention in the Middle School*" Grades Bryce Pride and Melinda Hess, College of Education; Robert Potter, College of Arts and Sciences, University of South Florida Nov.9-14, Orlando FL

(2009) European Science Education Research Association annual meeting. *"Leadership for Integrated Middle School Science: Finding Common Ground for Reform Through Inquiry, Nature of Science and Socioscientific Issues"*. Zeidler, D.L. & Potter, R. Istanbul, Turkey.

(2009) USDOE Institute for Education Science Fourth Annual Research Conference Developing Teacher Leadership to Support Effective Middle School Science" Robert Potter College of Arts and Sciences, Dana Zeidler College of Education, University of South Florida; Andi Ringer, Julia McKinney School District of Hillsborough Co. June 7-9 Washington DC.

(2006) Association of Teacher Educators International Conference. Language in Science:Improving Understanding by Engaging Students with Science Terms. L Amiri and R. Potter August 7-10 Atlanta GA

(2005) SENCER (Science Education for New Civic Engagements and Responsibilities) Fourth Summer Institute Santa Clara CA, (Aug 5-9), sponsored by NSF and SENCER network; Leila Amiri and Robert Potter

(2004) SENCER (Science Education for New Civic Engagements and Responsibilities) Fourth Summer Institute Santa Clara CA, (Aug 6-10), sponsored by AACU/NSF; Donald Trisel presented: "Science That Matters a Standards-Based Interdisciplinary Course Sequence and Materials for Non-science Majors/Future Teachers". D. Trisel, G. Meisels, T. Flateby and R. Potter

(2004) National Science Foundation "Invention and Impact: Building Excellence in Undergraduate Science, Technology, Engineering and Mathematics (STEM) Education" A conference of the Course Curriculum and Laboratory Improvement (CCLI) Program, April 16-18 Crystal City Virginia.: "Science That Matters a Standards-Based Interdisciplinary Course Sequence and Materials for Non-science Majors/Future Teachers". R. Potter, G. Meisels, T. Flateby and D. Trisel

(2003) SENCER (Science Education for New Civic Engagements and Responsibilities) Third Summer Institute Santa Clara CA, (Aug 7-11), sponsored by AACU/NSF; I Bartsch presented "Science That Matters": A Standards Based Interdisciplinary Science Sequence for Nonmajors/Future Teachers. I. Bartsch, T. Flateby, G. Meisels and R. Potter

(2001) American Association of Biochemistry and Molecular Biology Annual meeting Apr.1-4 Orlando Fl "Relationship between Cytoplasmic Protein O-Glycosylation and Mitogen Activated Protein Kinase Activation in Breast Tumor cell Lines" C. Slawson, S.Whelan and R Potter

(2000) American Association of Cell Biology 40th Annual meeting Dec.9-13 San Francisco CA "Increased N-Acetyl-β-Glucosaminadase Activity in Primary Breast Tumors corresponds to a Decrease in Serine/Threonine Linked N-Acetylglucosamine Modified Proteins" C. Slawson, J. Pidala and R. Potter

(2000) American Association of Cell Biology 40th Annual meeting Dec.9-13 San Francisco CA "Increased levels of MAP kinase like Protein in Breast Tumors" S. Whelan, M. Acevedo-Duncan and R. Potter

(2000) 9th Annual Florida Higher Education Consortium Meeting, Nov.9-11St. Petersburg FL
"Survey of Florida, Elementary School Teachers: Preservice Preparation and Inservice Needs"
R. Potter and G. Meisels

(1999) American Association of Biochemistry and Molecular Biology Annual meeting, May 16-20 San Francisco CA. "New Broad Based Introductory Science Course for Nonmajors/Future Teachers" R Potter B Ephraim and G Meisels. also " New Spectrophotometric Approach to Quantitaive Blood Typing" S Narayanan, G Leparc, L Garcia-Rubio and R Potter

(1996) 212th American Chemical Society National Meeting, Orlando, Florida, Aug. 25-29.
Use of Multiwavelength UV-vis Spectroscopy to Monitor Protein Structure, S. Narayanan, R. Potter, and L.H. Garcia-Rubio.

(1996) 212th American Chemical Society National Meeting, Orlando, Florida, Aug. 25-29, Characterization of Acid- and Base-Extracted Collagens, S. Patel and R.L. Potter

(1996) 212th American Chemical Society National Meeting, Orlando, Florida, Aug. 25-29, Novel Cytoplasmic Sugar Modification at potential Protein Phosphorylation Sites: Proliferative Induced Changes In N-acetyl-glucosamine Modifications, C. Slawson, P. Baekey and R.L. Potter.

(1996) 212th American Chemical Society National Meeting, Orlando, Florida, Aug. 25-29, UV-visible Spectroscopic Measurements as Indicators of Platelet Quality, Y. Mattley, S. Orton, G. Leparc, R.L. Potter and L. H. Garcia-Rubio

(1996) 212th American Chemical Society National Meeting, Orlando, Florida, Aug. 25-29, Mitogen-activated Protein Kinase (MAPK) is Used as a Potential Marker for the Detection of Human Cell Proliferation and Differentiation, S.A. Whelan Jr., P. Baekey, C. Cox, N. Lowell and R.L. Potter.

(1995) American Chemical Society Florida Section, Annual Meeting, May 5-6, Orlando Florida
Fate of ^{35}S from Microinjected □-^{35}S-ATP in Xenopus laevis Oocytes and Analysis of the Major Metabolites, Dilojan Senanayake, Greg Buczynski and R.L. Potter.

(1995)American Chemical Society, Florida Section Annual Meeting, May 5-6,.Orlando Florida
Characterizing Base Modified Collagens using Protease Mapping to Monitor Modification, S. Patel, *E. Clark*, and R.L. Potter.

(1995)American Chemical Society, Florida Section Annual Meeting, May 5-6, Orlando Florida
Novel Use of UV-visible Spectroscopy as a Potential Quality Assurance Method to Monitor Protein Folding and Aggregation State: A study of Modified Collagens, Mattley, Y., Throckmorton, J. Garcia-Rubio, and Potter, R.L.

(1994) Institute for Biomolecular Science Symposium, University of South Florida, Nov. 3-4, 1994. A Novel Use of Ultraviolet-Visible Spectroscopy as a Quality Assurance Method to Monitor Protein Folding and Aggregation Y.D. Mattley, J.L. Throckmorton, L.H. Garcia-Rubio, and R.L. Potter.

(1994) American Society for Biochemistry and Molecular Biology, May 20-25, , Washington, D.C. Detection and Quantitative Comparison of Low Abundance Stathmin-like Isoforms from Xenopus laevis Oocytes and Eggs, Kovacs, K.F., *Alesnik, J.P.* and Potter, R.L.

Kovacs, K.F., *Alesnik, J.P.* and Potter, R.L. Developmental Regulation of Stathmin during Xenopus laevis Oogenesis. American Society for Cell Biology, Denver, CO, November 1992.

Kovacs, K.F., Buczynski, G., *Alesnik, J.P.* and Potter, R.L. In Vivo Thiophosphorylation of Xenopus Oocyte Stathmin and the Transphosphorylation Between Purine Nucleotides. Gordon Research Conference on Second Messengers and Protein Phosphorylation, Meriden, NY, June 1992.

Buczynski, G., Kovacs, K.F. and Potter, R.L. Fate of ^{35}S from Microinjected □-^{35}S-ATP and □-^{35}S-GTP in Xenopus laevis Oocytes; Probable Involvement of Nucleoside Diphosphate Kinase - Gordon Conference on Second Messengers and Protein Phosphorylation, June 1991.

Kovacs, K.F. and Potter, R.L. The Formation of Stathmin Isoforms in Xenopus laevis Oocytes May be Regulated by Both CAMP-dependent Protein Kinase and Protein Kinase C, Federation of American Societies for Experimental Biology, 75th Annual Meeting, Atlanta, Georgia, April 1991.

Buczynski, G. and Potter, R.L. In Vivo Synthesis of □-S-GTP from □-S-ATP in Xenopus Oocytes; Probable Involvement of Nucleoside Diphosphate Kinase. Federation of American Societies for Experimental Biology, 75th Annual Meeting, Atlanta, Georgia, April 1991.

Buczynski, G. and Potter, R.L. Nucleoside diphosphate Kinase from Xenopus Oocytes - Distribution, Characterization and Implications for Second Messenger Systems. American Society for Cell Biology, San Diego, CA, December 1990.

Kovacs, K.F. and Potter, R.L. Investigation of a Heat Stable Low Molecular Weight (M_r = 21,500) Xenopus Oocyte Phosphoprotein That Can Delay Maturation. American Society for Cell Biology, San Diego, CA, December 1990.

Buczynski, G. and Potter, R.L. Nucleoside Diphosphate Kinase from Xenopus Laevis Oocytes: Distribution, Characterization and Some Experimental Caveats. Gordon Conference on Second Messenger and Protein Phosphorylation, June 1990.

Buczynski, G. and Potter, R.L. Nucleoside Diphosphate Kinase from Xenopus Oocytes: Partial Purification and Characterization. American Society of Biochemistry and Molecular Biologists, New Orleans, LA, June, 1990.

Kovacs, K. and Potter, R.L. Phosphorylation State Analysis of a cAMP-dependent Protein Kinase Substrate in Xenopus Laevis Oocytes: Implications for Oocyte Maturation. American Society of Biochemists and Molecular Biologists. New Orleans, LA, June 1990.

Buczynski, G. and Potter, R.L. Characterization of an Oocyte Nucleoside Diphosphate Kinase: Implications for the Study of Second Messenger Systems - American Chemical Society Florida Section, Orlando, FL, April 1990.

Zulic, Frank W., Stewart, Gregory J. and Potter, R.L. S.E. Microbial Physiology and Genetics Meeting. "Detection and Purification of Agarase from the Marine Isolate, NR19," Sep 15-17, 1989.

Buczynski, G., *Hunter, G.* and Potter, R.L. "Identification of a Non-Magnesium Dependent Form of a Nucleoside Diphosphate Kinase in Xenopus laevis Oocytes and Their Potential Interaction with GDP Binding Proteins," Gordon Conference on Second Messengers and Protein Phosphorylation, June, 1989.

Kovacs, K.F., *Tinker, R.I.* and Potter, R.L. Inhibition of Oocyte Maturation by an Endogenous Low Molecular Weight Phosphoprotein. Gordon Conference on 2nd Messengers and Protein Phosphorylation, 1988.

Kovacs, K.F., *Tinker, R.I.* and Potter, R.L. Purification and Partial Characterization of a Xenopus Maturation Regulatory Phosphoprotein. American Chemical Society, Florida Section Annual Meeting, April, 1988.

Kovacs, K.F., *Doran, J.,* and Potter, R.L. Specific Phosphoproteins Inhibit Xenopus Oocyte Maturation. American Society of Biological Chemists Meetings, Philadelphia, PA, June, 1987.

Kovacs, K.F., Oocyte Maturation: Role of Low Molecular Weight Phosphoproteins. Tenth Annual Cancer Research Seminar of the American Cancer Society, Florida Division, Gainesville, FL, March, 1987.

Richardson, C. and Potter, R.L. cAMP-dependent Protein Kinases of Xenopus laevis Oocytes: Studies with Photoaffinity Analogs. 74th ASBC Meeting, San Francisco, California, June, 1983.

Lewis, R.V. and Potter, R.L. Anion Exchange Chromatography Proteins. 2nd International Symposium on HPLC of Protein, Peptides and Polynucleotides. Baltimore, Maryland, December, 1982.

Potter, R.L. and Taylor, S.S. Structural and Functional Domains of cAMP-dependent Protein Kinase. I and II. 63rd FASEB Meeting, Dallas, Texas, April, 1979.

Grants and Contracts:

Pending
None

Funded - Direct Costs (total)
(2015-2020) Extended through August 2022 National Science Foundation, "Systemic Transformation Through Evidence-based Education Reform" DUE 1525574; PI Gerry Meisels **Co-PIs** Jennifer Lewis, **Robert Potter**, Peter Stiling, University of South Florida and James Wysong Hillsborough Community College 9/15/2015-8/31/2020; $ 2,271,079 **(**$2,975,896 total)

(2014-2019) Howard Hughes Medical Institute Undergraduate Education "A High Engagement STEM Academy for Entering First Year Students to Inspire Achievement and Persistence in STEM"; PI -R. Pollenz, **Co-PIs**- A. Feldman, S. Lewis, **R. Potter,** K Ramachandran, P Stiling and K.Yee. 9/1/2014-8/31/2019. $1,200,000 (Total costs; no indirect)

(2013-2015) National Science Foundation, "A Planning Grant Transforming STEM Teaching in a Large Urban-Serving Research University (NSF's WIDER Program) DUE 1347753; PI Gerry Meisels **Co-PIs** Jennifer Lewis, Peter Stiling, Catherine Beneteau and **Robert Potter** 2/1/2013-1/31/2015; **$**170,894 **(**$249,491)

(2013-2018) Helios Foundation. STEM Middle School Residency Program: Transforming STEM Teacher Preparation for the Transition Years -Implementation grant; G Kersaint COE, **Co-PI R. Potter** CAS (5%time), Co-PI M. Smith COE, L. Planck HCPS; Implementation Grant: 2/1/2013 – 2/18/2018; $2,736,000. direct (no indirect)

(2012-2017) National Science Foundation (NSF)"Tampa Bay Robert Noyce Master Teacher Fellows (MTF) Program" PI Gladis Kersaint, **Co-PI's Robert Potter** (5% time) and Diane Hoppey; 8/1/2012-7/31/2017;$1,118,253 ($1,216,967)

(2011-2012) Helios Foundation. STEM Middle School Residency Program:

Transforming STEM Teacher Preparation for the Transition Years -planning grant; G Kersaint COE, **Co-PI R. Potter** CAS, Co-PI M. Smith COE, L. Planck HCPS; direct $390,853 ($429,853), 10/1/11-12/31/12

2008-2012 USDOE Institute of Education Science "Leadership for Integrated Middle School Science" (LIMSS**) R. Potter PI**, Dana Zeidler Co-PI, University of South Florida and Andi Ringer Co-PI School District of Hillsborough County. 3/1/08-2/28/11; $1,303,671 ($1,444,347) continued through 4/30/12

2007-2012 **External reviewer:** NSF Graduate Teaching Fellows K-12 Project and NSF Writing in Chemistry Project ; Florida Atlantic University (FAU) /Palm Beach County School District 2007-2011 ($7,000)

2007 -2009 FL DOE "External Evaluation of Ten Florida USDOE Title II Science Partnership Grants" G. Meisels PI, **R. Potter Co-PI**; $428,436 ($471,279)

2006-2010 USDOE Fund for Post Secondary Education (FIPSE), "Marketing of Science Teachers and Induction" **R. Potter PI**, G. Meisels Co-PI University of South Florida; A. Ringer Co-PI School District of Hillsborough County, and J. Lombana, Co-PI, Museum of Science and Industry; 10/01/06-9/30/09 ($568,799 total) continued -2010

2005 Florida Department of Education National Title IIB Mathematics and Science Partnerships "Mathematics and Science Teacher Recruitment and Support (MASTERS): Recruitment Preparation Support and Retention of Alternative Entrant Teachers Gerry G. Meisels, PI, **Robert L. Potter**, and Gladis Kersaint Co-PIs, University of South Florida; Barbara Anderson Co PI School District of Hillsborough Co. and Judith Lombana, Museum of Science and Industry. 4/30/05-6/30/06 $1,024,325 ($1,042,994 total)

2005 Project Kaleidoscope Leadership Initiative 2005-2006, USF was accepted as a Leadership Institution in improving mathematics and science education for undergraduates. R. Potter is part of leadership team for project, (supports leadership building actions and holds national seminars to provide support for improving undergraduate STEM areas) Project Kaleidoscope is an informal national alliance working to build strong environments in STEM education Project Kaleidoscope is, in part, supported by the National Science Foundation, the ExxonMobil Foundation, the Fund for the Improvement of Post-secondary Education, U.S. Department of Education, and the W.M. Keck Foundation**.**

2004 USDOE-Florida MULTI-University Reading, Mathematics And Science Initiative (MURMSI) For Phase II Pilot Study Understanding Resignations Of, Science Mathematics, And Reading Teachers (UR-SMART P2) Gerry G. Meisels, PI, Jennifer Lewis, and **Robert Potter Co-Principal** Investigators; University of South Florida, Roger O'Brian Polk Co. Schools; 8/15/04-7/31/05, $142,074 ($149,178 total)

2004 National Science Foundation (NSF – FL Summit – EHR-0451272) **"**Florida Summit on Science and Mathematics Education" Gerry G. Meisels, PI, **Robert Potter, co-PI,** University of South Florida and Florida Coalition for Improving Mathematics and Science Literacy, Marsha Winegarner, co-PI, Fl. Dept. of Education Penny Haskins, co-PI, Radiation Technologies, Inc. and Florida Coalition for Improving Mathematics and Science Literacy; 10/1/04-9/30/06, $142,798 ($157,798 total)

2004 Phi Theta Kappa/NSF "Preparing Future Mathematics and Science Teachers at Community Colleges". Darlene Welder- Johnson, Felix Rizk, Nancy Johnson, Manatee Community College and **Robert Potter**, University of South Florida; Goal: Improving mathematics and science preparation of

future teachers. Travel funds for team members (Community College and University) to attend two national conferences and for visits of consultants to Community college campus. 2/2/04-5/31/05

2003 USDOE-Florida MULTI-University Reading, Mathematics And Science Initiative (MURMSI) For Pilot Study Understanding Resignations Of, Science Mathematics, And Reading Teachers (UR-SMART) Gerry G. Meisels, PI, Jennifer Lewis and Gladis Kersaint, and **Robert Potter Co-Principal** Investigators; University of South Florida, Marian Lauria-Davis, Barbara Anderson, and Sarah Brown, co-PI School District of Hillsborough County, 11/1/03-7/30/05, $147,090 ($154,445 total)

2002 NSF (DUE 0231179) "Science That Matters": A Standards Based Interdisciplinary Science Course for Non-Science Majors and Future Elementary School Teachers-Instructional Material Upgrade and Multi-site Implementation. **R. Potter PI**, B. Cochrane, D. Zeidler and G Meisels Co-PIs 2/1/03-1/31/05 $96,500, ($104,269 total) extended though August 2006

2002 US Dept. Education " Mathematics and Science Teacher Recruitment, Alternative Certification, and Induction (MASTRACI)", Hillsborough County Schools, The Tampa Museum of Science and Industry and the University of South Florida, G. Meisels PI, **R. Potter**, J. Lombana and N. Marsh Co-PI's; 10/01/02 – 9/31/06 $723,167 ($1,265,520 total)

2002 University of South Florida, Research and Creative Scholars Grant "Glucosamine and O-GLcNAc Modification as Physiological Regulators of Endothelial Nitric Oxide Production", L. Solomonson, D. Eichler and R. Potter; 5/1/02-6/31/03; $7,500

2002 St Lukes Laser Eye Clinic and Research Foundation/Maverick Technologies. Evaluation of PVA/Biomask Collagen Materials as Drug Delivery Devices II, R. Potter 1/1/02-8/31/02; $5,023

2002 Consultant and Literature Reviewer for Florida Teacher Certification Examination (Science 6-12) Development Committee January-February 2002, R. Potter $2,600

2001 Association of American Colleges and Universities/NSF "SENCER (Science Education for New Civic Engagements and Responsibilities) Summer Institute Robert Potter, Bruce Cochrane, Ingrid Bartsch 5/1/01-6/31/02; $3,800

2001 St Lukes Laser Eye Clinic and Research Foundation/Maverick Technologies. Evaluation of Biomask Collagen Based Materials as Drug Delivery Devices I, R. Potter 7/31/01-10/31/01; $2,000

2001 University of South Florida, Research and Creative Scholars Grant "Investigation on the Effects of Monoglycosylation on the Function of Transcription Factor E2F4" R Potter; 5/1/01-6/31/02 $7,500

2000 NASA/NOVA: Evaluation of a Reform Based Science Course "Transitions in Space and Time: Space and Aging" R. Potter May-June 2000 $1,000

2000 Boston Scientific/Vascular: Carbohydrate Analysis: Comparison Of Two Producer's Collagen R. Potter PI Apr.1-31 2000, $2,000

1999 Florida Department of Education; Re-writing of the State of Florida's Teacher Competency Standards in Science (Led team of 10 faculty and teachers from around the state in revising content and process standards in Biology, Chemistry, Earth/ Space Science and Physics) 5/1/99-99/30/99, $12,000 (my portion $4,200)

1998 Maverick Technologies Incorporated - BioMask Collagen Biomaterials Characterization. R. Potter, 11/2/98-10/29/99, $13,772 ($20,000 total) And L.H. Garcia Co PI $20,000 additional

1998 National Science Foundation - "A Modular, Integrated, College Science Course for Pre-Service Elementary Teachers and Other Non-Technical Majors. G. Meisels, R.L. Potter lead PI's, D. Henry and six others from area institutions co PI's. 2/15/98-1/31/00, $134,285 (+$25,715 indirect cost).

1997 Hillsborough Co. Public Schools Department of Secondary Education, "Summer Program for Gifted High School Students." R Potter Co-PI with Drs. Ken Pothoven, Joseph Lieng, Manoug Manougian Mathematics, 5/1/97-9/30/97, $38,000.

1997 Pasco Co. Public Schools Department of Secondary Education, "Summer Program for Gifted High School Students." R. Potter Co-PI with Drs. Ken Pothoven, Joseph Lieng, Manoug Manougian Mathematics, 5/1/97-9/30/97, $23,670.

1997 Polk Co. Public Schools Department of Secondary Education, "Summer Program for Gifted High School Students." Co-PI with Drs. Ken Pothoven, Joseph Lieng, Manoug Manougian Mathematics, 5/1/97-9/30/97, $4,750.

1996 Ortho Diagnostics Inc. Development of Ultraviolet Visible/Light Scattering Technology for the Characterization of Blood and Blood Components, R Potter Chemistry, L. Garcia, Chem. Eng. and G. Leparc, Florida Blood Services, 12/16/96-12/15/98, $150,000.

1996 Hillsborough Co. Public Schools Department of Secondary Education, "Summer Program for Gifted High School Students." Co-PI with Drs. Ken Pothoven, Joseph Lieng, Manoug Manougian Mathematics, 5/1/96-9/30/96, $38,000.

1996 Pasco Co. Public Schools Department of Secondary Education, "Summer Program for Gifted High School Students." Co-PI with Drs. Ken Pothoven, Joseph Lieng, Manoug Manougian Mathematics, 5/1/96-9/30/96, $23,670.

1996 Polk Co. Public Schools Department of Secondary Education, "Summer Program for Gifted High School Students." Co-PI with Drs. Ken Pothoven, Joseph Lieng, Manoug Manougian Mathematics, 5/1/96-9/30/96, $4,750.

1996 Advanced Technology Program (DOD and DOE) "Development of a Personal Micro-Titer Strip Reader." Co-PI's E Talamas Micronix Inc., W. Swartz, Lockheed Martin Specialty Components, July 1,1996 - May 31, 1997, $45,771. My portion of award was approximately $9,000.

1995 Bausch and Lomb Pharmaceuticals: Development of A Quantitative Corneal Shield Dissolution Assay, 10/1/95-9/31/96, $55,635.

Pasco County Public Schools Department of Education: Summer Program for Gifted Students. Co-PI with Drs. Ken Pothoven, Joseph Lieng, Manoug Manougian Mathematics. 5/1/95-9/30/95, $23,670.

1995 Hillsborough County Public Schools Department of Secondary Education Summer Program for Gifted Students. Co-PI with Drs. Ken Pothoven, Joseph Lieng, Manoug Manougian, Mathematics, 5/1/95-9/30/95, $57,000.

1994 Bausch and Lomb Pharmaceuticals: Protein Chemistry Research, 10/1/94 - 9/31/95, $16,000.

1994 Bausch and Lomb Pharmaceuticals: Analysis and Characterization of Modified Collagens, 1/1/94 - 12/31/94, $60,000.

1993 Bausch and Lomb Pharmaceuticals: Collagen Materials Research, 1/1/93 - 12/31/93, $41,300.

1992 University of South Florida Research and Creative Scholarship Grant: "Nucleoside Diphosphate Kinase and G-Protein Interactions: Potential Mediators of Cell Cycle Control in Xenopus laevis Oocytes. 1/15/92 - 2/1/93 $6,719.

1992 Bausch and Lomb Pharmaceuticals: "Collagen Product Characterization" - continued. 1/1/92 - 12/31/92, $69,800.

1991 Bausch and Lomb Pharmaceuticals: "Collagen Product Characterization". 1/1/91 - 12/31/91, $65,094.

1990 Florida Dept. of Citrus: Co-PI Dr. Richard Mansell, Biology Dept. "Citrus Adulteration", 1/1/90 - 12/31/91, $65,000.

1990 Bausch and Lomb Pharmaceuticals, "Collagen Characterization - Continued", 1/1/90 -12/31/90, $52,084.

1990 Processed Apples Institute: Co-PI with Dr. Richard Mansell, Biology Dept., "Juice Quality Service", 1/1/90 - 8/31/91, $30,000.

1989 University of South Florida Research and Creative Scholarship Grant: "Oocyte Maturation: Non cAMP-dependent Protein Kinase Activity and Prophase Arrest", 1/1/89 - 1/1/90, $1,240.

1988 University of South Florida Biomedical Research Support Grant, "Oocyte Prophase Arrest: Function of Low Molecular Weight Phosphoprotein", 12/1/88 - 21/31/89, $6,785.

1988 Bausch and Lomb Pharmaceuticals, "Collagen Characterization", 11/88 - 12/31/89, $46,400.

1988 Processed Apples Institute: Co-PI with Dr. Richard Mansell, Biology Dept., "Juice Quality Service", 9/1/88 - 12/31/89, $37,000.

1988 Florida Dept. of Citrus: Co-PI with Dr. Richard Mansell, Biology Dept., "Citrus Adulteration." 7/1/88 - 12/31/89, $25,000.

1987 Florida Sea Grant College Program: "Cloning and Purification of Agarase from Marine Bacteria." Co-PI with Dr. Gregory Stewart, Biology Dept., 9/87 - 9/88, $10,000.

1987 Processed Apples Institute: Co-PI with Dr. Richard Mansell, Biology Dept., "Juice Quality Service" 8/1/87 - 7/31/88, $25,400.

1987 Florida Dept. of Citrus: Co-PI with Dr. Richard Mansell, Biology Dept., "Citrus Adulteration" 7/1/87 - 6/30/88, $25,380.

1987 American Cancer Society: Florida division, "Low Molecular Weight Phosphoproteins: Isolation and Characterization of their Role in Oocyte Maturation." 6/1/87 - 5/31/88, $11,650.

1986 University of South Florida Faculty Research and Creative Scholarship Grant, Affinity Crosslinking of Proteins in Intact Cells, PI - Robert Potter - 4/1/86 - 3/31/87, $2,500.

1985 University of South Florida Biomedical Research Support Grant, Cyclic AMP-dependent Protein Kinases from Xenopus Oocytes - In Vivo Determination and Purification, PI - Robert Potter - 4/1/85 - 3/31/86, $6,000.

1983 National Institutes of Health "Oocyte Maturation: Role of Protein Phosphorylation" 1983-1986, $127,000.

1982 University of Wyoming Faculty Research Grant-in-Aid "Biochemical Aspects of Oocyte Maturation" 1982, $2,500.

Grants Submitted But Not Funded

(2020-2022) A Learning Assistant Scholars Program Supporting Students of Color Success in STEM Ruthmae Sears PI, Robert Potter, Kevin Yee, Michael Cross and Anna Pyayt Co-PIs University of South Florida 8/1/2020 – 7/31/2022 ($599,370), $433,552 direct

(2019-2023) National Science Foundation "Converging Social Club Networks, Supportive Academic Experiences, and Digital literacy Immersion to Increase Black and Latinx Success in STEM Disciplines" (DUE 1917687); Ruthmae Sears PI, Robert Potter, Kevin Yee, Michael Cross and Anna Pyayt Co-PIs University of South Florida 8/1/2019 – 7/31/2023 ($3,999,916), $2,873,953 direct

(2018-20210 National Science Foundation Graduate Student Scholarships to Advance Community-Engaged Solutions to the Grand Challenge of Managing Nitrogen PI David Lewis, Co-PIs Tonisha Lane. James Mihelcic**, Robert Potter,** Maya Trotz and Mark Rains

(2014-2019) Howard Hughes Medical Institute Undergraduate Education "An Integrated Evidence Based Introductory Level Biology Curriculum to Inspire the Success and Persistence of Future STEM Scientists"; PI -R. Pollenz, Co-PIs- A. Feldman, S. Lewis, R. Potter, K Ramachandran and K.Yee. 6/1/2014- 5/31/2019. $2,500,000 (no indirect)

(2013-2016) USDOE Institute of Education Sciences "Promoting Leadership and Collaboration for Effective Science" (PLCES) R. Potter PI, Dana Zeidler Co-PI, University of South Florida and Pam Caffery and Larry Plank Hillsborough Co. Schools (3/1/2013-2/29/2016 ($1,280,933) due to governmental sequestration notification of award have been shifted to April 2013

(20012-2015) USDOE Institute of Education Science "Leadership and Collaboration for Effective Middle School Science" (LIMSS) R. Potter PI, Dana Zeidler Co-PI, University of South Florida Pam Caffery and Larry Plank Co-PI's Hillsborough County public schools. 7/1/12- 6/31/15; $1,159,274 ($1,293,274)

2011USDOE –IES; Assessing Program and Cost Effectiveness of Professional Development in Mathematics and Science; G. Meisels PI, R. Potter Co-PI; total 1,429,404; 9/2011-8/2014

2010 NSF, Business Dimensions of Assessing Effectiveness of Professional Development in Mathematics and Science; G. Meisels PI, R. Potter Co-PI ; total$1,255,568 (direct $921,966),1/01/11-12/31/14

2007 NASA "Aero Space education Project (AESP)" G. Meisels PI, R. Potter Co-PI $27,300,000 7/1/07- 6/31/12

2006 FL Dept. of Education "Mathematics and Science Teacher and Education Research Center (MASTER)" G. Meisels PI, G. Kersaint and R. Potter Co-PIs. $2,000,000 11/1/06-10/31/07

2006 IES/USDOE "Leadership for Integrated Middle-School Science (LIMSS)" Robert L. Potter – PI and Gerry Meisels – co-PI, CSL and Andi Ringer C0-PI SDHC; $1,711,579 ($1,909,382); 3/1/07 – 2/28/11

2006 NSF "Teacher Institutes for Middle-School Integrated Science (TIMIS)"
Gerry Meisels – PI, and Robert Potter Co-PI, CSL– and Andi Ringer Co-PI, SDHC
$4,979,228 ($5,400,156 total); 10/01/06 to 9/30/11

*Note the following three grants were ranked but no grants in this round were funded when the FDOE decide not to fund any new or continuing grants under the current RFP and issued a totally new RFP with a new direction

*2006 USDOE/FLDOE Title II Funds "Mathematics and Science Teacher of Excellence Recruitment" (MASTER) R. Potter PI G. Meisels, G. Kersaint, B. Anderson, J. Lombana Co-PI's 1/30/06-12/31/06, $970,263 ($990,263 total)

*2006 Florida Initiative to Recruit Mathematics & Science Teachers (FIRMS) Gerry G. Meisels, PI, Robert L. Potter, Co-PI FDOE $1,974,598

*2006 Great Expectations in Mathematics & Science (GEMS) FDOE Gerry G. Meisels, PI, Robert L. Potter, Helen Gerretson, USF; David Lewis, Brenda Kearse, Polk Co Schools Co-PI's $ 777,750

2005 National Alliance of State Science and Mathematics Coalitions, "Enhancing Effectiveness of Florida's Mathematics and Science Teachers", Gerry G. Meisels, PI, Robert L. Potter, Co-PI, University of South Florida and Florida Coalition for Improving Mathematics and Science Literacy (CIMS), Penny Haskins, co-PI, Radiation Technologies, Inc. and CIMS, 6/1/2005-5/31/2007, $27,000

2004 USDOE/FLDOE Title II Funds "Mathematics And Science Teacher Recruitment and Support" (MASTER) G. Meisels, PI, R. Potter, B. Anderson, J. Lombana Co-PI's 6/1/04-8/3105, $970,263 ($990,263 total)

2003 National Science Foundation "Suncoast Partnership Enhancing Science Instruction and Learning" (SPESIAL) ;G. Meisels PI;R Potter, B Anderson and Chin-Tang Liu Co PI's ;9/1 /04-8/31/09 $11,773,270 (Direct) ($12,499,975 Total)

2003 NIH "Spectroscopic Platform Methodology for Disease Detection" L Garcia-Rubio PI and R. Potter and G. Leparc Co-PI's 2/1/04-6/30/07, $ 675,000 ($967,479)

2003 NSF "Partnership for Reaching Optimum Mathematics Instruction and Science Education (Florida PROMISE). Gerry G. Meisels, PI, (USF), Robert Potter and Gladis Kersaint (USF), Barbara Anderson Hillsborough Co. Schools (SDHC), and Robert Orlopp, Pinellas Co. Schools, Co-PI's, 9/1/03-8/31/08, $30,275,953

2003 NSF Interdisciplinary Partnerships to Support Inquiry-Based Science Education (IPSISE) Jennifer E. Lewis PI, Maralee Mayberry, Gerry G. Meisels, Robert L. Potter Co-PIs USF and Nancy J. Marsh, co-PI Hillsborough County Public Schools (HCPS) 1/1/04 -12/31/07 $1,253,971 (total $1,276,354)

2003 USF Innovative Teaching Grants; "Outcomes Assessment of a General Education Science Course Sequence, "Science That Matters" I&II"$10,361 4/1/10-6/31/04

2002 National Blood Foundation "Improving Quality Control for Leuko-reduction: Development of a Prefiltration Screen for Sickle Cell Trait and a Post Filtration Evaluation for Leuko-reduction". G. Leparc PI, R. Potter and L. Garcia-Rubio CO-PI's; 7/1/03-6/30/05; $50,000

2002 NIH "Spectroscopic Platform Methodology for Disease Detection" L Garcia-Rubio PI and R. Potter Co-PI 7/1/03-6/30/06, $ 675,000 ($967,479)

2002 State of Florida Emerging Technology Commission "Center of Excellence in NanoBioScience and Engineering Partner/Co-PI with L. Garcia-Rubio in University of Florida proposal 6/1/03-5/31/05 $10,000,000

2002 NSF "Recruiting, Preparing, and Retaining Career-Change Mathematics and Science Teachers" Gerry G. Meisels, PI, (USF), Robert Potter and Gladis Kersaint (USF), Co-PIs Nancy Marsh, PI for School District of Hillsborough County (SDHC), Judith Lombana, PI for Tampa Museum of Science and Industry (MOSI); 4/1/03-3/31/06, $889,460 ($980,754 total)

2002 NSF "Scientists and Teachers Expanding Mutual Support" Graduate students leading inquiry in the schools. J Lewis PI, R Potter and G. Meisels Co-PIs 8/1/03-7/31/06; $1,348,600 ($1,378,600 total)

2002 NSF Florida Promise: "A Program for Improving Mathematics Instruction and Science Education, A mathematics and science education partnership for the state of Florida" G. Meisels, and P. Cottle PI's, R Potter one of 20 Co-PIs; 01/01/03-12/31/07, $6,500,000

2002 Florida Blood Services Patterson Foundation "Improving Quality Control for Leuko-reduction: Development of a Prefiltration Screen for Sickle Cell Trait and a Post Filtration Evaluation for Leuko-reduction" R. Potter and L. Garcia-Rubio; 8/1/02-8/31/03; $20,000

2001 US Dept. Energy National Laboratory Research Program "Noninvasive Biophotonics Technology for the Diagnosis of Infectious Disease" L. Garcia, R. Potter and W. Moreneo; 7/1/01-9/31/04, $2,164,627 ($1,164, 427 direct costs, ~$510,100 my portion)

2001 National Science Foundation "Planning a Suncoast Area Center For Teaching and Learning" G. Meisels, PI, R. Potter, one of four Co PI's Oct 01- Jan 03; $196,866

2001 William and Flora Hewlett Foundation, Education Programs: "Development and Implementation of a New First Year College Experience: An Interdisciplinary Approach" B. Cochrane, PI, R. Potter, D. TeStrake, and K. Cole Co-PI's June 2001-May 2002, $151,381

2001 US Department of Education Fund for Post Secondary Education: Preproposal "Focus on the Standards: Connecting Science Content and Pedagogy For Preservice Teachers, R. Potter 2001-2003, $336,220

2000 Dreyfus Foundation; Changing the Culture Of University and College Science Teaching: Developing Graduate Students Skills In Effective Ways of Teaching and Learning. R Potter and G. Meisels, Aug.1-July 31,2001 $48,000

2000 Pew National Fellowship Program for Carnegie Scholars: Developing Effective Evaluations to Assess the Outcomes of a Modular Interdisciplinary Science Sequence for Non majors /Future Teachers. R Potter, June 2001-2002 $9,000

2000 National Science Foundation: Sunshine Center for Learning and Teaching, Co-PIs G. Meisels, B. Spector and R. Potter Sept.1 2000-Aug 31 2005 $13,251,552

1999 National Aeronautics and Space Administration :Preparing Elementary and Middle School Students in Earth Systems Science Co PI's G. Meisels and R Potter Jan 2000-Dec 2003 $287,607

1999 National Science Foundation: Planning National Implementation of an Interdisciplinary Hands-on Science Course for Elementary Education Majors also suitable for Other Non-Science Majors. Co-Principal Investigators: G. Meisels, K. Thomas and R.L. Potter. Jan-Dec.2000, $74,908.

1999 USA Armed Services: Dual Use Program - Development of an Expandable Platform for Telemedicine and Environmental Monitoring Applications to Blood Oximetry, Hematocrit and Dehydration. Co-Principal Investigators S. Athan, Center for Microelectronics, L. Garcia-Rubio, Chemical Engineering; and G. Leparc, Florida Blood Services and Robert Potter, Department of Chemistry. Jan 2000-Dec. 2002, $750,000.

1998 BioPool International: Feasibility Study for New Blood Typing Technology. PI R.L. Potter, Co-PI's: L. Garcia-Rubio, Chemical Engineering and G. Leparc, Florida Blood Services. 2/1/99 - 6/30/99, $44,000.

1996 National Science Foundation: "Systemic Organizational Advancement and Reform (SOAR) of Undergraduate Education in Science, Mathematics, Engineering and Teaching, Co-PI with 17 authors - G. Meisels PI. 11/1/96 - 10/31/99, $199,948.

1996 Department of Education: "Science and Mathematics: Introductory Learning Experiences in College" (SMILE), Co-PI with five other authors - G. Meisels PI. 7/1/97 - 6/30/2000, $1,087,342.

1995 Johnson and Johnson Corporation Focused Giving Program "Use of a Novel Ultraviolet - Visible Spectroscopic Method for the Characterization of Blood and Blood Components - Co-PI's with Dr. Garcia-Rubio, Chemical Engineering and Dr. German Leparc, Florida Blood Services, 3 yr. $289,000 - start January 1996.

1995 James A. Patterson Foundation Blood Characterization and Typing Using UV-Visible Spectroscopy, Co-PI L. Garcia Rubio, 1 yr. $26,750. James A. Patterson Foundation Blood Characterization and Typing Using UV-Visible Spectroscopy, Co-PI L. Garcia Rubio, 1 yr. $26,750.

1994 U.S. Department of Defense: Tyrosine Phosphorylated Proteins in Human Breast Cancer, Co-PI Dr. P. Baekey, Pathology, Dr. Charles Cox, Surgery, and Dr. R. Potter, Chemistry, 3/1/94 - 2/28/96, $120,277.

1991 American Cancer Society - Florida Division: "Cell Cycle Control - Role of Nucleoside Diphosphate Kinase in Cell Division", $21,500. 1991-1992

1990 American Cancer Society - Florida Division: "Nucleotide Diphosphate Kinase Characterization and Investigation of its Role in Cell Division", $18,500, 1991.

1989 American Cancer Society - Florida Division: "Nucleotide Diphosphate Kinase Characterization and Investigation of its Role in Cell Division", $12,000, 1990-91.

1988 National Science Foundation, "Oocyte Maturation: Role of Low Molecular Weight Phosphoprotein", $246,225, 1989-92. Robert Potter

1988 National Institutes of Health, "Oocyte Maturation: Isolation and Characterization of a Prophase Arrest Protein", $226,025, 1989-92. Robert Potter

1988 Florida High Technology Council, "Development of a Rapid and Efficient Method for Recovery of DNA from Agarose Gels", $49,388, 1989-90. Robert Potter

1988 American Cancer Society - Florida Division, "Oocyte Maturation: Isolation and Characterization of a Prophase Arrest Protein", $12,000, 1989-90. Robert Potter

1987 National Science Foundation, "Mechanism of DNA Release and Uptake in Pseudomonas stutzeri", Co-PI with Dr. Gregory Stewart, Biology, $450,362, 1988-91.

1987 National Science Foundation, "Oocyte Maturation: Role of Low Molecular Weight Phosphoproteins", $272,490, 1988-91. Robert Potter

1987 National Institutes of Health, "Oocyte Maturation: Role of Small Phosphoproteins", $269,442, 1988-91. Robert Potter

1986 American Cancer Society - Florida Division, "Low Molecular Weight Phosphoproteins: Isolation and Characterization of Their Role in Oocyte Maturation", $12,000, 1987-88. Robert Potter

1985 National Institutes of Health, "Oocyte Maturation: Role of Protein Phosphorylation", $237,510, 1986-89. Robert Potter

Teaching and Other Instructional Activities:

Course Instruction

Undergraduate

Biochemistry 590D Introductory Comparative Biochemistry -Wyoming
Biochemistry 598D Clinical Biochemistry - Wyoming
Biochemistry 620G General Biochemistry – Wyoming
Chemistry 3023 Introductory Biochemistry -USF
Chemistry 3023L Biochemistry Laboratory – USF
Chemistry 4034 Advanced Biochemistry-USF
Chemistry 4035 Biochemistry of the Vascular System
Interdisciplinary Science 1004 Science That Matters I- USF
Interdisciplinary Science 1005 Science That Matters II- USF

Graduate Classroom Teaching

Biochemistry 810 Physiological Biochemistry - U. of Wyoming
Biochemistry 845 Nucleotide Regulation of Biological Phenomenon -U. of Wyoming
Chemistry 5045 Graduate Biochemistry - 5 semesters, University of South Florida
Chemistry 5034 Advanced Biochemistry (graduate) USF
Chemistry 6839 Biochemistry of the Vascular System USF

New Course Developed or Redeveloped and Initiated

2003 CHM 5510 Physical Sciences for Teachers: Major Concepts and Common Misconceptions a graduate course for the Maters in Arts of Teaching

2003 ISC 5511 Life Sciences for Teachers: Major Concepts and Common Misconceptions a graduate course for the Maters in Arts of Teaching

2000 Interdisciplinary Science ISC1005, and, “Science that Matters” II semester two of a Standards-based active learning approach to teaching science for nonscience majors and especially future teacher

1999 Interdisciplinary Science ISC1004, and, “Science that Matters” I semester one of a Standards-based active learning approach to teaching science for nonscience majors and especially future teachers

1996-2000 Fall Chemistry 3023L Undergraduate Biochemistry Laboratory - redesigned and updated. (new experiments each year)

1996 -98 Chemistry 6839 Biochemistry of the Vascular System

1987- 96 Chemistry 4034/5034 Advanced Biochemistry

Special High School Programs

1995-97	Summer	Directed USF Bio Medical and Life Science Program for Gifted High School Students - Taught Investigative Laboratory Portion of the Program.
1994-95	Summer	Directed USF Biomedical and Life Science Program for Gifted High School Students
1993	Summer	Taught Biochemistry and Molecular Biology as well as 3 laboratory portions of the USF Biomedical and Life Science Program for Gifted High School Students.
1992	Summer	Directed USF Biomedical and Life Science Program for Gifted High School Students. Taught Biochemistry and Molecular Biology portion.
1989	Summer	Hillsborough County High School Science Teachers Improvement Course: Computer Technology and Biology.
1988	Summer	Pasco County Teacher Improvement Course - Chemistry/Biology Interconnections.
1986-1993		Section of Laboratory for the USF Biomedical and Life Science Program for Gifted High School Students. Protein Chemistry Section.
1986-1999		Participated as a host laboratory for 2nd and 3rd year gifted high school students summer internship.

Students:

1986 - Sally Joo, Jennifer Reed
1987 - Michael Bellman, Steven Jurch, Douglas Maniati
1988 - Ann Lee, Tinku Mukherjea
1989 - Tinku Mukherjea
1990 - Amy Bennet, Eugene Chang
1991 - Amy Bennet, Eugene Chang
1992 - Kirsten Bottoms, David Clark, Corbin Kid
1993 - Kattron Rhodes, David Clark
1994 - Erin Clark, Gillian Folks, Anish Zachariah
1995 - Erin Clark, Heather MacAdam, Michael Stirling
1996 - Parul Khator
1997 - Parul Khator
1998 - Fay Yao, Javier Lopez
1999 – Fay Yao

1985-1996	Mentor for USF Science Mentor Program - Center for Excellence in Math and Science
1996-1997	Mentor for Pasco County Schools - School to Work Program for Mr. Billy Monroe, Spring 1996, Fall and Spring 1997
1996-1998	Mentor for Mr. Kai Bernal, Fall 1997 and Spring 1998
2000-2000	Mentor for Ms Amira Griffith, State of Florida Bridges Research Program for community college students

Graduate Research Dissertation Directed: Ph.**D.**

1985-93 Karl Kovacs - An Investigation of Protein Phosphorylation During Xenopus laevis Oogenesis: Further Characterization of the Putative Meiosis Inhibitory Protein p21.5 and the Discovery and Characterization of the Signal Transducing Protein Statman, in Xenopus Oocytes and Eggs. Postdoctoral position with Dr. Randy Kinkaid, Cell Biology Division, Human Genome Sciences, Rockville, Maryland.—Retired, formally Vice President of Operations, Origene Inc. Rockville Maryland

1986-93 Greg Buczynski - Purification and Characterization of a Nucleoside Diphosphate Kinase from Xenopus Oocytes: Implications Pertaining to Its Role(s) in Progesterone Stimulated Maturation and Other Signal Transduction Pathways. Postdoctoral position July 1993-97 with Dr. James Cardelli, Dept. Immunology and Microbiology, Louisiana State Univ. NIH Postdoctoral Fellowship, 1994-1996. Research Associate University of North Carolina 97-2001. Presently Senior Scientist Bayer Corp. North Carolina

1991-95 Jeff Throckmorton (Co-director with Dr. Garcia-Rubio, Chemical Engineering) Development of a Spectroscopic Technique for Examining Protein Aggregation Phenomenon - Senior Scientist BTG - a worldwide particle technology company, VP Hach Company (water quality) and now President of Hach Homeland Security Technology.

1993-96 Gary Grey (Co-Director with Dr. Eric Wickstrom, Thomas Jefferson University), Characterization of the In Vivo Inhibition of Tumor Cell Growth by Antisense Oligonucleotides. Presently Teaching High School Tampa Florida

1994-99 Smita Narayanan/Ram (Co-Director with Dr. Garcia-Rubio, Chemical Engineering)- Aggregation and Structural changes in Biological Systems: An Ultra violet-visible Spectroscopic Approach for Analysis of Blood Cell Aggregation and Protein Conformation, Post Doctoral position IQuum Inc. A blood analysis company in Boston Mass.

1995-02 Steve Whelan (Co-director Dr. Mildred Acevedo-Duncan) – The study of MAPK and Characterization of a Novel ERK Isoform in Proliferative Systems Post Doctoral Associate Gerald Hart, John's Hopkins University 02-06, Assistant Research Professor UCLA medical school 06-2011, Currently Sr. Research Scientist Boston University medical School Proteomics Core

1995-02 Chad Slawson - Characterization of Novel Cytoplasmic Glycosylated Proteins from Oocytes and Human Tumors. Post Doctoral Associate Gerald Hart, John's Hopkins University current position Associate Professor Dept Molecular Biology Kansas Med School

1996-00 Yvette Mattley (Co-Director Dr. Garcia-Rubio, Chemical Engineering) - Development of a Combined Spectroscopic Light Scattering Technique to Monitor Blood Platelet Quality. January2001 R&D Scientist with Ocean Optics Largo FL)

1996-04 Akihisa Nonoyama – Using Multiwavelength UV-visible Spectroscopy to Investigate Red blood Cells: an Investigation of Hypochromism Post Doctoral Associate with Russel Middaugh Univ. Kansas, Senior Research Scientist II at Pfizer Pharmaceuticals, Senior Scientist I at Cirrus Pharmaceuticals currently Senior Scientist Liquidia Technologies NC

1999-06 Aaron Mathews –(Co Director Dr. Mildred Acevedo Duncan) Interplay of Protein Monoglycosylation and Protein Kinase C in Glioma Cell Proliferation. Post Doctoral Associate with Dr. Alan Fields Mayo Clinic Jacksonville, current position Professor of Chemistry Florida State College at Jacksonville

Thesis Directed: M.S and M.A.

1990-94 Crystal Gambino - (Co director with Dr. Mary Jane Saunders, Biology Dept.) Non-thesis Masters - Review Article - Role of Nuclear Lamins in Cell Division. Currently Associate Professor of Biology and Chemistry at State College of Florida

1994-95 Bill Coppola - Non Thesis master, Preliminary Characteristics of a Potential Xenopus laevis Arginine Kinase: Role of this Enzyme and its Potential Distribution in Lower vertebrates. Presently a patent lawyer specializing in technology. Aventis Corp NJ

1994-96 Dilojan Senanayake - Characterization of the Major Sulfur Containing Oocyte Metabolites of □-thio-Adenosine triphosphate – Received a second Masters Degree in Geology at USF with certificate in waste management. Presently Health Care Waste Management Coordinator General Medical Services, Ministry of Health, Nutrition and Welfare Sri Lanka.

1994-96 Smita Patel - Characterization of Modified Collagen Biomaterials. Dental school at Univ. of Florida. Currently a practicing dentist

1996-98 Lee Bryant – MA, User Friendly Program to Help Students Learn to Solve pH Problems (deceased)

1997-00 Mark Paraiso - Characterization of Leukocytes Using UV-vis Spectroscopy and Light Scattering. Analytical Scientist for Bausch and Lomb Pharmaceuticals

2002-05 Sreelatha Paspuleti- Isolation and Identification of O-linked β-N-Acetylglucosamine (O-GlNAc) Modified Proteins of the Developing Xenopus *laevis* Oocyte. Science laboratory Technician, Rutgers University, currenlty Sr. Sci. Kashiv Biosciences Trenton NJ

B.S./M.S.

1989-93 Greg Hunter - Synthesis of Photoaffinity Labels for GTP Binding Proteins and Investigation of GTP Binding Proteins in Xenopus Oocytes. Received his Ph.D. in Biochemistry at the University of South Florida Medical School in hemebiosynthesis, post-Doctoral studies at the Mote Marine Laboratories, Sarasota FL in Angiogenesis; senior scientist with Smith and Nephew Wound Healing Division Largo FL and now Research Associate Professor Dept Biochemistry University of South Florida

Dissertation Committees - Ph.D. (other than above)

1987-89	Scott Simonet	Biochemistry	2000-06	Chris Rogers	Pharmacology
1989-89	Wade Jeffries	Marine Science	2001-05	Abuzar Kabir	Chemistry
1985-89	David Ferguson	Chemistry	2001-04	Young Chul Park	Chemistry
1985-90	Daryl Sauer	Chemistry	2001-04	David Flanagan	Chemistry
1986-90	Ellen Leahy	Chemistry	2002-03	Roger Bass	Chemistry.
1987-91	Constance Werking	Chemistry	2002	Mike Stump	ED. Leader
1988-90	Cecelia McIntosh	Biology	2002	Mike Simmons	Science Ed.
1988-94	Carlos Chavez	Biology	2003-06	Scott Lewis	Chem. Ed
1989-	James Milbourne	Psychology/Chem.	2003-06	Sarah Carpenter	Chemistry
1989-94	Veronica Pollack	Biochemistry	2003-04	Gary Brannon	Science Ed.
1990-94	Jason Rife	Chemistry	2004-06	Kevin Revelle	Chemistry
1990-91	Charles Moorefield	Chemistry	2004-05	Nora Stackpole	Chemistry
1990-93	James Young	Chemistry	2004-05	Jennelle McQuown	Molec. Onc.
			2004-09	Teresa Eckart	Chem. Ed.
1991-94	Rick France	Chemistry	2004	Courtney Teschner	Chemistry
1991-95	Dorett Ellis	Biology	2004-09	Olivia Ebner	Chemistry
			2004-09	Li Fang	Chemistry
1991-96	Tony Rycerz	Biology	2004-10	Alicia Garcia	Chem Ed.
1992-98	Mary Beth Colter	Biology	2004-07	Sameer Kulkarni	Chemistry
1992-97	Anthony Trimboli	Biochemistry	2004-06	Beverly Barker	Chem Ed

1993-	Cherry Steffen	Biology
1994-97	Venkatraj Narayanan	Chemistry
1995-00	Jason Palcic	Chemistry
1994-99	Hyun Park	Chemistry
1995-98	Greg Hunter	Biochemistry
1995-96	Jian Gong	Biochemistry
1995-00	Shayla Emran	Chemistry
1995-01	Craig Bertolucci	Chemistry
1995-01	Michael Harris	Chemistry
1995-98	Seema M. Amin	Chemistry
1996-99	Jon Epperson	Chemistry
1996-99	Anil Patri	Chemistry
1996-98	Enfei He	Chemistry
1997-01	Jay Parrish	Chemistry
1997-01	Rich Fleming	Chemistry
1997-01	Kamal Ayoub	Chemistry
1998	Jeff Cramer	Chemistry
1998-01	Glenn Gates	Chemistry
1998-02	Yo-Der Wen	Chem/Moffitt
1999	Allen Mitchell	Chemistry
1999-03	Advait Nagle	Chemistry
2005-10	Scott Segrow	Chemistry
2005-07	Vasiliki Lykourinue	Chemistry
2005	Alan Maschek	Chemistry
2005	Leila Amiri	Science Ed.
2005-08	Bo Jiang	Chem Ed.
2005-06	Brenda Flam	Biochemistry
2005-07	Ed. Dougherty	Biology
2005-07	Gary ZeRuth	Biology
2006	Brett Daggett	Molec Med
2006	Karla Foster	Chemistry
2006-07	Karriann Greenbaugh	Chemistry
2007-08	Ed Lowe	Chemistry
2007-08	Hla Win	Chemistry
2007-12	Shikha Mahajan	Chemistry
2007-12	Keily Heredia	Chem-Ed
2008-13	Sashel Villafane Garcia	Chem-Ed
2008-13	Ushiri Kulatunga	Chem-Ed
2009-11	Shradda Desai	Chemistry
2009-11	Prajit Pillai	Chemistry
2010-14	Todd Gatlin	Chem Ed
2011- 14	Adrian Villalta-Cerdas	Chem Ed
2011- 16	Susana Lopez	Chemistry
2011-	Hui Lui	Chem-Ed
2011- 15	Xiaoying Xu	Chem-Ed
2012- 16	Yujuan Liu	Chem Ed
2016 20	Wishrawana Ratnayake	Chemistry

Thesis Committees - Master's (other than above)

1986-87	Sandrina Phipps	Biology
1986-87	Laura Weakland	Biology
1985-86	Laurie Friedrich	Biology
1986-89	Nancy Lane	Biology
1986-87	Lance Laing	Chemistry
1987-90	Tim Morton	Biology
1988-89	Jerry Coughter	Biology
1988-89	Yahia Daaka	Chemistry
1988-92	Frank Zuklic	Biology
1989-90	Sung Ho Ham	Biology
1989-91	Lamar Galloway	Biology
1989-91	Gene Gustin	Biology
1990-92	Christine Strom	Biology
1990-91	Xiaofeng Lin	Chemistry
1991-93	Dain Williams	Chemistry
1991-93	Gary Grey	Chemistry
1993-94	James Hyde	Chemistry
1993-94	Christine Pull	Biology
1993-94	Hongzhu Yan	Chemistry
1993-97	Greg Hutchinson	Chemistry
1993-94	Tim Van Dyke	Biology
1995-96	Victor Lin	Chemistry
1995-96	Travis Van Dyke	Biology
1997-00	William Rodriquez	Biology
1997-99	Stephen Schifflet	Biology
1997-	Patrick Stevens	Chemistry
1997-00	Renee Blosser	Biology
2000-01	Stephanie Robertson	Che. Eng.
2001-01	Catalina Alupoei	Che Eng.
2001-02	Derek Poore	Chemistry
2005	Angelica Acevedo	Chemistry
2005-05	Lilia Usher	Chem Ed.

Undergraduate Research

1985-86	*Barry Cates, †Joy Doran, David Ansell, T.J. Richards
1986-87	•Emilio Dominges, •Ken Towe, †Debra Gunnerson, *Eric Dalebout, Tom Flock
1987-88	•Ken Towe, †Rebecca Tinker, •Mitesh Parekh, *Christian Kameris

1988-89	Lee Chassy, Mitesh Parekh, †ΔRebecca Tinker, †Bob O'Neal, Susan Truong, Ted Garcia, *Christian Kameris, •†Dick Courtney
1989-90	•Mitesh Parekh, †Jay Kleine, Susan Truong, •†Shannon Dunn, †Kenneth Moore, •Mathew Horsefield, •Sam Myrick
1990-91	†Carolyn Foulkes, •Joe Alesnik, †Thai Pham, †Francis Palmer
1991-92	†·Joe Alesnik, †Thai Pham, Δ•David Cooper
1992-93	†·Joe Alesnik, †Thai Pham, Shahrzad Zevandahe, Amoury Currasco
1993-94	Amoury Currasco, •Mark Hager, David Bear, Stephanie McCormick, Δ•Jason Collins, *Shepard Frenchman, •Jeffrey Brace, †Kristina Carlton, †Lee Bryant
1994-95	†Lee Bryant, *Shepard Frenchman, †Kristina Carlton, †James Morgado, •John Yannuchi, Yvonne Zalewski, •Melissa Fleck
1995-96	†Alex Sokolowski, †Diane Welson, •Paul Zamankewicz, Katrina Duckworth,
1996-97	Sharon Nunley, Michele Kapolka, Piotr Toszew, Thuy Ahn Phan
1997-98	•Timothy Ragan, •Derrick Duplaise, †ΔBilly Monroe,† Chakree Tanjeroon
1998-99	•Timothy Ragan, •Pedro Troya
1999-00	Δ▪Timothy Ragan, • Pedro Troya, John Clark, †James Amburgey
2000-01	Δ•James Amburgey, Δ Kristy Curry
2001-02	Δ• James Amburgey, Δ †Kristy Curry, •Susan Shaffii, Andy Gleason
2004- 05	Jonathan Belof†

* Denotes student having completed or enrolled in dental school.

† Denotes students having completed or enrolled in graduate school.

• Denotes students having completed or enrolled in medical school.

Δ Denotes students completing their honors thesis under my direction.

Δ Research Fellow of the Institute for Biomolecular Science

Undergraduate Honors Thesis Students

1988	Rebecca TinkerΔ†
1992	Elizabeth Sischuk
1991/92	David CooperΔ•
1992/93	Jannette Gaw•
1993/94	Jason CollinsΔ•
1994	Hillary Van Valkenburg†
1996	Joanne Gaw▪
1997/98	Benjamin Keselowsky▪
1999/00	Joe Pidhala▪Δ, Jennifer AscherΔ†
2001/02	Kristy CurryΔ†
2002/03	Edward Lowe†
2004	Melissa Schindler•

* Denotes student having completed or enrolled in dental school.

† Denotes students having completed or enrolled in graduate school.

• Denotes students having completed or enrolled in medical school.

$^{\Delta}$ Denotes students completing their honors thesis under my direction.