

## Curriculum Vitae (revised 3-25-17)

### NAME

Mary Ann McLane

### EDUCATION

Neumann University, Aston PA  
Degree: Bachelor of Science (May 1976)  
Major: Medical Technology

Temple University, Philadelphia PA  
Degree: Master of Science (May 1980)  
Major: Medical Technology Education  
Thesis: Development and Pilot Testing of a Self-Instructional Unit on Steroid  
Hormone Biochemistry

Temple University School of Medicine  
Degree: Doctor of Philosophy (August 1993)  
Major: Physiology  
Thesis: Interaction of Venom Peptides (Disintegrins) with the Platelet  
Fibrinogen Receptor

### FULL TIME EXPERIENCE

Sept. 1996 – present

University of Delaware, Newark DE  
Department of Medical Laboratory Sciences

Promotion 2008

Full Professor

Preparing Research Proposals MEDT800  
Graduate Research Seminar MEDT803  
Graduate Research MEDT868  
All other courses listed as Assoc Prof

Tenured September 2003

Associate Professor:

Urinalysis and Body Fluids (juniors)  
Clinical Physiological Chemistry I (juniors)  
Statistics, Research, and Clin Lab principles (juniors)  
Independent Study (juniors/seniors)  
Language of Medicine (undergrad)

Sept. 1993 - June 1996

Postdoctoral fellow, Thrombosis Research Center  
Temple University, Philadelphia, PA

Sept. 1984 - May 1990

Temple University, Philadelphia PA  
Department of Clinical Laboratory Sciences  
Assistant Professor:  
Clinical Chemistry (seniors)  
Biochemistry (juniors)  
Chem. of Cellular Structure (juniors)  
Instrumentation (juniors)  
Laboratory Mathematics (juniors)  
Research and Education (seniors)  
Spec. Topics in Med. Tech. (graduate)  
Med. Technology Education (graduate)

June 1982 - Sept. 1984      Chairman, Dept. of Clinical Laboratory Sciences  
 Temple University  
 Assistant Professor:  
     Clinical Chemistry (seniors)  
     Research and Education (seniors)  
     Intro. to Med. Technology (juniors)  
     Biochemistry (juniors)  
     Chem. of Cellular Structure (juniors)  
     Independent Study

May 1981 - June 1982      Adjunct Assistant Professor  
 Temple University  
     Clinical Chemistry (seniors)  
     Biochemistry (juniors)  
     Chem. of Cellular Structure (juniors)

June 1980 - May 1981      Neumann University, Aston PA  
 Instructor:  
     Clinical Chemistry I and II (seniors)  
     Instrumentation (juniors)  
     Intro. to Med. Lab. Science (sophomores)

Aug. 1976 - Aug. 1978      St. Joseph Hospital, Towson MD  
 Generalist Medical Technologist

Aug. 1970 - Aug. 1974      St. Anthony Grade School, Baltimore MD  
 Instructor, grades 2 and 7

PART TIME EXPERIENCE

Fall 1995, Spr 1996      Thomas Jefferson University  
 Lecturer, Dept. of Laboratory Sciences

Fall 1993-96              Temple University  
 Lecturer, Dept. of Physiology

Fall 1993, Spring 1995      Neumann University, Aston PA  
 Fall 1996                  Lecturer, Division of Con. Ed.  
                                  Lecturer, Clinical Laboratory Sciences Program

Oct. 1989 – Aug. 1994      Endocrine Testing Ltd.  
 Staff Technologist (generalist)

Sept. 1988 – May 2006      Hospital of University of Pennsylvania  
 Staff Technologist (hematology)

Jan. - May 1980              Neumann University, Aston PA  
 Instructor: Introduction to Med Lab Science

PROFESSIONAL ORGANIZATIONS

American Society for Clinical Laboratory Science (1976 - present)

AWARDS

Excellence in Service Award, UD College of Health Sciences, May 2015  
 Excellence in Undergraduate Academic Advising nominee, UD, June 2012  
 Carnegie Foundation US Professor of the Year (Delaware), 2010  
 Lindback Award for Excellence in Teaching, UD, May 2002  
 Robin H. Mendelson Memorial Award, ASCLS, August 2001, 2011  
 ASCLS Board of Directors Certificate of Recognition, July 1999, 2002, 2005, 2012  
*ADVANCE* Laboratorian of the Year, April 5, 1999  
 Pennsylvania Nominee for ASCLS 1998 Member of the Year Award  
 Certificate of Appreciation, University of Delaware Medical Technology Class of 1998  
 Dolbey Member of the Year, ASCLS-PA (1997)  
 Alpha Mu Tau fraternity induction (1995)  
 Distinguished Alumni Award, Temple Univ. (1995)  
 Postdoctoral Traineeship, NIH (1993-95)  
 Erwin Marguiles Award for Thrombosis Research (2nd place, 1993)  
 Alpha Mu Tau fraternity graduate scholarship (1989)  
 Baxter Healthcare Graduate Scholarship (1989)  
 Edward P. Dolbey Scholarship (1989)  
 State Nominee for National Sherwood Medical Achievement Award in Education (1989, 1990)  
 Estolle Gross Scrimshaw Award (1988)  
 Omicron Sigma (ASCLS) (1988-96, 1999)  
 Pi Alpha (PSCLS) (1987, 1988, 1989)  
 Ruth Heinemann Memorial Trustee Award for Educational Development (1979)

Grantsmanship (funded)

NIH R44TR000033 (6/1/15 – 5/31/17): eClinic Phase II: An Innovative Technology to Clinical Laboratory Sciences Education (McLane, expert consultant), \$42,000  
 Eastern Pennsylvania-Delaware Geriatric Education Center (7/1/10-6/30/15): Clinical laboratory testing in the elderly population (Co-PI), \$41,525  
 NIH-INBRE (5/1/09 – 2/28/12): Direct interaction of eristostatin with melanoma cell surface molecules, \$163,060  
 The Milheim Foundation (8/1/07 – 7/31/08) Natural inhibitor of melanoma cell activity, \$10,000  
 GUR grant, University of Delaware (6/1/07 – 5/30/08): Human immunity, melanoma and the viper venom protein eristostatin, \$6000  
 National Institutes of Health (1 R01 CA098056)(4/1/03-3/31/07): Naturally occurring inhibitor of melanoma metastasis, \$735,276  
 National Institutes of Health (1 R15 CA90316) (4/1/01 - 3/31/04): Investigation of a naturally occurring inhibitor of melanoma metastasis, \$150,000  
 University of Delaware Center for Teaching Effectiveness: Effectiveness of Web-based Coursework in Learning Laboratory Mathematics (1999-2000), \$2500  
 UDRF grant (1998-99): Molecular basis for disintegrin selectivity and potency with integrin receptors, \$30,000  
 Investigatorship, Amer. Heart Assn (1996-98): Importance of the structure of the RGD loop in disintegrins for integrin recognition, \$66,000  
 Cooper/Merck Fellowship Award, Amer. Heart Assn (1995-96): Characterization of disintegrin-integrin interaction by oligonucleotide-directed mutagenesis, \$25,600  
 Postdoctoral Traineeship, NIH (1993-95)

Pre-doctoral Fellowship, Amer. Heart Assn (1992-93): Interaction of disintegrins with glycoprotein IIb/IIIa, \$6000  
 Alpha Mu Tau fraternity graduate scholarship (1989)  
 Baxter Healthcare Graduate Scholarship (1989)  
 Edward P. Dolbey Scholarship (1989)  
 Summer research fellowship and Grant-in-aid (Temple University: "Effect of hyperosmolality on blood glucose levels as determined by portable reflectance meters" (1988-89)  
 Summer research fellowship and grant-in-aid (Temple University): "Effect of hydrocortisone phonophoresis on blood glucose and cortisol levels in mice" (1986-87)  
 Ruth Heinemann Memorial Trustee Award for Educational Development (1979)  
 Alpha Mu Tau fraternity grant (1979)  
 Allied Health traineeship grant (1978-80)

#### Grantsmanship (not funded)

National Institutes of Health – R21 (9/1/12 – 8/31/14): Venom disintegrins enhance NK cells against melanoma, \$405,988  
 National Institutes of Health – R21 (9/1/12 – 8/31/14): Snake venom disintegrin effects on malignant cancer cell motility, \$425,828  
 Pardee Foundation (1/1/08 – 12/31/08): Effect of venom disintegrin on NK cell activity with human melanoma, \$115,093  
 Harry J. Lloyd Charitable Trust (6/1/07 – 5/31/08): Innate immunity in disintegrin inhibition of melanoma metastasis, \$71,000  
 Skin Cancer Foundation (2/1/07 – 1/31/08): Human immunity, melanoma and the viper venom protein eristostatin, \$10,000  
 NIH R21 “Photoacoustic Imaging of Carbon Nanotubes to Monitor Cancer Therapy” \$33,000 (listed as co-PI with 10% effort, PI = Takashi Buma, Engineering)  
 National Institutes of Health (R15 CA127811)(4/01/07-3/31/09): Innate immunity, disintegrins and cancer, \$226,500  
 National Institutes of Health (renewal for R01 CA098056)(4/1/07-3/31/10): Naturally occurring inhibitor of melanoma metastasis, \$1,057,000  
 National Institutes of Health (renewal for R01 CA098056)(4/1/06-3/31/11): Naturally occurring inhibitor of melanoma metastasis, \$1,321,150  
 National Institutes of Health (R01)(7/1/02-6/30/05): Naturally occurring inhibitor of melanoma metastasis, \$729,500  
 American Cancer Society: Molecular Basis for Inhibition of Melanoma Cell Metastasis by Eristostatin, 7/1/00-6/30/02, (ME Miele, PI; McL, co-investigator), \$300,000  
 Burroughs Wellcome fund: Investigation of a Naturally Occurring Inhibitor of Melanoma Metastasis, 7/1/00-6/30/03, \$210,000  
 NIH: Structure and function of viper venom disintegrins, resubmission of HL60921-01 for 1999-2003, \$256,573  
 American Heart Association: Roles of Non-RGD Motifs in Integrin-Ligand Interactions, 7/1/99-6/30/01, \$90,000  
 Oak Ridge Associated Universities: Importance of Methionine Motifs in Integrin-Ligand Interactions, 1999-2000, \$10,000

#### PUBLICATIONS

McLane MA. Body Fluids: Serous and Synovial Fluids. College of American Pathologist Competency Assessment IN PRESS through MediaLab, 2017.

- McLane MA. “Interpreting Acid-Base Results”, eClinic module IN PRESS through Athena Corporation, <http://athenaed.com/eclinic>, 2017.
- McLane MA. “Automated Urinalysis”, eClinic module IN PRESS through Athena Corporation, <http://athenaed.com/eclinic>, 2016.
- McLane MA. “Osmometry”, eClinic module IN PRESS through Athena Corporation, <http://athenaed.com/eclinic>, 2015.
- McLane MA. HE4 and CA125: Biomarkers for Ovarian Cancer. Educational Commentary commissioned by American Proficiency Institute for the American Society for Clinical Pathology, 2016.
- McLane MA. “Mass Spectrometry”, eClinic module published through Athena Corporation, <http://athenaed.com/eclinic>, 2013.
- Katz C, McNichols K, Bounds R, Figurelle T, Jones C, Farley H, Witkin G, McLane MA, Johnson SR. The ALERT system improves patient safety by enhanced communication between emergency department clinicians and medical laboratory staff. *J Clin Outcomes Mgmt* 20: 455-462, 2013.
- Hailey S, Adams E, Penn R, Wong A, McLane MA. Effect of the disintegrin eristostatin on melanoma-natural killer cell interactions. *Toxicon* 61: 83-93, 2013, doi: 10.1016/j.toxicon.2012.10.011.
- Laudicina R, Fenn JA, Freeman V, McCoy C, McLane MA, Mundt L, Polancic J, Randolph T, Shanahan K. Research in Clinical Laboratory Science: Professionals’ Involvement. *Clin Lab Sci* 24: 235-242, 2011.
- Laudicina R, Fenn JA, Freeman V, McCoy C, McLane MA, Mundt L, Polancic J, Randolph T, Shanahan K. Research in Clinical Laboratory Science: Professionals’ Education Preparation. *Clin Lab Sci* 24: 243-248, 2011.
- Kini RM, Clemetson KJ, Markland FS, McLane MA, Morita T (ed). *Toxins and Hemostasis: From Bench to Bedside*. New York, Springer Science, 2010. ISBN 978-90-481-9294-6
- Chapters 1 and 11 (Clinical Chemistry and Urinalysis & Body Fluids) in *Success! In Clinical Laboratory Science*, 4<sup>th</sup> ed., Ciulla AP and Lehman DC, ed, Pearson Education, Upper Saddle River NJ, 2010.
- Vijapurkar M, Ghosh K, Shetty S, McLane MA, Moura da Silva AM, Butera D. A simple, novel and robust test to diagnose type I Glanzmann thrombasthenia. *Haematologica* 2008 May; 93(5): 797-798. Doi: 10.3324/haematol.12288
- McLane MA, Joerger T, Mahmoud A. Disintegrins in health and disease. *Frontiers in Bioscience* 13: 6617-6637, 2008.
- Galan JA, Sanchez EE, Rodriguez-Acosta A, Soto JG, Martinez J, Bashir S, McLane MA, Paquette-Straub C, Perez J. Inhibition of lung tumor colonization and cell migration with the disintegrin crotatroxin 2 isolated from the venom of *Crotalus atrox*. *Toxicon* 51: 1186-1196, 2008.
- Tian J, Paquette-Straub C, Sage EH, Funk S, McLane MA. Inhibition of melanoma cell motility by the snake venom disintegrin eristostatin. *Toxicon* 49: 899-908, 2007.

McLane MA, Paquette-Straub C. Classification and nomenclature of disintegrins isolated from snake venoms. Registry of Exogenous Hemostatic Factors of the Scientific and Standardization Committee of the International Society on Thrombosis and Haemostasis 2007; DOI: 10.1111/j.1538-7836.2007.02671.x.

McLane MA, Zhang X, Tian J, Paquette-Straub C. Monomeric and dimeric disintegrins: platelet active agents from viper venom. *Toxin Reviews* 26: 47-76, 2007.

Hantgan RR, Stahle MC, Connor JH, Horita DA, Rocco M, McLane MA, Yakovlev S, Medved L. Integrin  $\alpha$ IIb $\beta$ 3: ligand interactions are linked to binding-site remodeling. *Prot Science* 15: 1893-1906, 2006

McLane MA, Zhang X, Tian J, Zelinskas C, Srivastava A, Hensley B, Paquette-Straub C. Scratching below the surface: Wound healing and alanine mutagenesis provide unique insights into interactions between eristostatin, platelets and melanoma cells. *Pathophys Haemost Thromb*, 34: 164-168, 2005

Butera D, Piazza RMF, McLane MA, Chammas R, Moura da Silva AM. Molecular engineering of an EGFP/disintegrin-based integrin marker. *Toxicon* 46: 178-184, 2005

Hantgan RR, Stahle MC, Connor JH, Lyles DS, Horita DA, Rocco M, Nagaswami C, Weisel JW, McLane MA. The disintegrin echistatin stabilizes integrin  $\alpha$ IIb $\beta$ 3's open conformation and promotes its oligomerization. *J Mol Biol* 342: 1625-1636, 2004.

McLane MA, Sanchez EE, Wong A, Paquette-Straub C, Perez JC. Disintegrins. *Current Drug Targets- Cardiovascular and Haematological Disorders* 4: 327-355, 2004.

McLane MA. Formed elements – A visual tour of microscopic urinalysis. CD published through Colorado Association for Continuing Medical Laboratory Education, 2003. Copies sold = 705

Butera D, McLane MA, Ducancel F, Moura-da-Silva A.M. Cloning, expression and characterization of a chimerical disintegrin/alkaline phosphatase hybrid protein. *Protein Expression and Purification* 31: 286-291, 2003.

Becker T, McLane MA, Becker CG. Integrin antagonists affect growth and pathfinding of ventral motor nerves in the trunk of embryonic zebrafish. *Mol Cell Neurosci* 23: 54-68, 2003.

Niewiarowski S, Marcinkiewicz C, Wierzbicka-Patynowski I, McLane MA, Calvete JJ. "Structure and function of disintegrins and C-lectins: Viper venom proteins modulating cell adhesion" IN *Perspectives in Molecular Toxicology*, J Wiley & Sons, New York NY, 2002.

Niewiarowski S, Marcinkiewicz C, McLane MA. "Disintegrins" IN *Encyclopedia of Molecular Medicine*, J Wiley & Sons, New York NY, 2001

McLane MA, Kuchar, MA, Brando C, Santoli D, Paquette-Straub CA, Miele ME. New insights on disintegrin-receptor interactions: Eristostatin and melanoma cells, *Haemostasis* 31: 3-6, 177-182, 2001.

Brando C, Marcinkiewicz C, Goldman B, McLane MA, Niewiarowski S. EC3, a heterodimeric disintegrin from *Echis carinatus*, inhibits human and murine  $\alpha$ 4 integrin and attenuates lymphocyte infiltration of Langerhans islets and salivary glands in non-obese diabetic mice. *Biochem Biophys Res Commun* 267: 413-417, 2000.

Wierzbicka-Patynowski I, Marcinkiewicz C, Calvete JJ, Marcinkiewicz MM, Niewiarowski S, McLane MA. Structural requirements of echistatin for the recognition of  $\alpha v\beta 3$  and  $\alpha 5\beta 1$  integrins. *J Biol Chem* 274:37809-37814, 1999.

McLane MA, Marcinkiewicz C, Vijay-Kumar S, Wierzbicka-Patynowski I, Niewiarowski S. Viper venom disintegrins and related molecules. *Proc Soc Exp Biol Med* 219: 109-119, 1998.

Calvete JJ, Schrader M, Raida M, McLane MA, Romero A, Niewiarowski S. The disulphide bond pattern of bitistatin, a disintegrin isolated from the venom of the viper *Bitis arietans*. *FEBS Letters* 416: 197-202, 1997.

Marcinkiewicz C, Vijay-Kumar S, McLane MA, Niewiarowski S. Significance of RGD loop and C-terminal domain of echistatin for recognition of  $\alpha IIb\beta 3$  and  $\alpha v\beta 3$  integrins and expression of ligand induced binding site. *Blood* 90: 1565-1575, 1997.

McLane MA, Vijay-Kumar S, Marcinkiewicz C, Calvete JJ, Niewiarowski S. Importance of the structure of the RGD-containing loop of echistatin and eristostatin for recognition of  $\alpha IIb\beta 3$  and  $\alpha v\beta 3$  integrins. *FEBS Letters* 391: 139-143, 1996.

Gabbeta J, Yang X, Sun L, McLane MA, Niewiarowski S, Rao AK. Abnormal inside-out signal transduction-dependent activation of glycoprotein IIb-IIIa in a patient with impaired plekstrin phosphorylation. *Blood* 87: 1368-1376, 1996.

Laboratory Practice IN: NCA Review for the Clinical Laboratory Sciences, 3rd ed. Little, Brown and Company, Boston MA, 1996.

McLane MA, Gabbeta J, Rao AK, Beviglia L, Lazarus RA, Niewiarowski S. Comparison of the effect of decorsin and two disintegrins, albolabrin and eristostatin, on platelet function. *Thromb Haem*, 74: 1316-1322, 1995.

Morris VL, Schmidt EE, Koop S, MacDonald IC, Gratten M, Khokha R, McLane MA, Niewiarowski S, Chambers AF, Groom AC. Effect of integrin expression on tumor cell migration during hematogenous metastasis. *Exp Cell Res* 219: 571-578, 1995.

McLane MA, Kowalska MA, Silver L and Niewiarowski S. Interaction of disintegrins with  $\alpha IIb\beta 3$  receptor on resting and activated human platelets. *Biochem J* 301: 429-436, 1994.

Niewiarowski S, McLane MA, Kloczewiak, M and Stewart G. Disintegrins and other naturally occurring antagonists of platelet fibrinogen receptors. *Sem Hem* 31: 289-300, 1994.

Pfaff, M, McLane, MA, Beviglia L, Niewiarowski, S and Timpl, R. Comparison of disintegrins with limited variation in the RGD loop in their binding to purified integrins  $\alpha IIb\beta 3$ ,  $\alpha V\beta 3$  and  $\alpha 5\beta 1$  and in cell adhesion inhibition. *Cell Adhesion & Communication* 2: 491-501, 1994.

Calvete JJ, McLane MA, Stewart G and Niewiarowski S. Characterization of the cross-linking site of disintegrins albolabrin, bitistatin, echistatin and eristostatin within isolated human platelet integrin GPIIbIIIa. *Biochem Biophys Res Comm* 202: 135-140, 1993.

Trybulec M, Kowalska MA, McLane MA, Lu W and Niewiarowski S. Exposure of platelet fibrinogen

receptors by zinc ions. Role of protein kinase C. *Proc Soc Exp Biol Med* 203: 108-116, 1993.

Lasz EC, McLane MA, Trybulec M, Kowalska MA, Khan S, Budzynski AZ and Niewiarowski S.  $\beta_3$  integrin derived peptide 217-230 inhibits fibrinogen binding and platelet aggregation: Significance of RGD sequences and fibrinogen A $\alpha$ -chain. *Biochem Biophys Res Comm* 190: 118-124, 1993.

Beviglia L, Poggi A, Rossi C, McLane MA, Calabrese R, Scanziani E, Cook JJ and Niewiarowski S. Mouse antithrombotic assay. Inhibition of platelet thromboembolism by disintegrins. *Thromb Res* 71, 301-315, 1993.

Calvete JJ, Rivas G, Schafer W, McLane MA and Niewiarowski S. Glycoprotein IIb peptide 656-667 mimics the fibrinogen gamma chain binding site on platelet integrin GPIIb/IIIa. *FEBS* 335: 132-135, 1993.

"Disorders of the adrenal cortex" in Davis et al, Clinical Laboratory Science: Strategies for Practice. Lippincott, Philadelphia, 1989.

"Pituitary disorders" in Davis et al, Clinical Laboratory Science: Strategies for Practice. Lippincott, Philadelphia, 1989.

Bering NM and McLane MA. Instrumentation utilizing radiochemical and radioimmunoassay methods. *Amer J Med Technol* 49: 527-538, 1983. (NOTE: This is also included as Unit III in a self-assessment series in instrumentation published by ASCLS.

#### PRESENTATIONS (oral unless otherwise noted)

10/16 I Am Not a Room. Student Forum Workshop, ASCLS-NJ, Scotch Plains NJ.

10/16 Providing the Face. Keynote presentation, West Virginia Joint Conference of State Societies, Charleston WV.

09/16 Discovery of a Novel, Bone-Like Blood Particle: Identification and Characterization of Ossified Particles in the Peripheral Circulation of Humans. Prisby R, Opdenaker L, McLane MA, Guderian S. Poster presented at annual meeting of American Society of Bone and Mineral Research, Atlanta GA.

08/16 E&R Submission 101. McLane MA. Roundtable presented at the ASCLS annual meeting, Philadelphia PA.

04/16 Tumor Markers: The Good, the bad and the Ugly. ASCLS-PA annual meeting, Harrisburg PA

04/16 Preeclampsia, Eclampsia and Other Hypertensive Disorders of Pregnancy. ASCLS-DE

04/16 Ossified Bone Marrow Blood Vessels, Trabecular and Cortical Bone Properties and Hematological Parameters in 6- and 18-month-old Fischer 344 Rats. Guderian S, Lee S, McLane M, Prisby R. Accepted for poster presentation at Experimental Biology 2016, San Diego.

01/16 Ossified Bone Marrow Blood Vessels, the Marrow Microenvironment, Vascular Dysfunction and Hematological Parameters in Fisher-344 Rats and Human. Prisby R, Lee S, McLane MA, Guderian S. Poster presented at NIH Workshop, Bethesda MD.

10/15 Bone Marrow Blood Vessel Ossification is Present in 1-Month-Old Fischer-344 Rats and Coincides with Altered Bone and Hematological Parameters in Advanced Age. Guderian S, McLane MA, Prisby R. Poster presented at American Society for Bone and Mineral Research, Seattle WA.

09/15 Ossified bone marrow blood vessels, bone volume and hematological parameters in Fischer-344 rats and humans. Prisby R, McLane MA, Guderian S. Northeast Regional IDEa Conference, Bar Harbor ME.

07/15 E&R Submission 101. Fritsma G, McLane MA. Roundtable presented at the ASCLS annual meeting, Atlanta GA.



- 07/15 Advancing Patient Advocacy with Common Questions in Chemistry. ASCLS Annual meeting, Atlanta GA.
- 07/15 Getting those performance improvement projects (and other things) published. ASCLS Annual meeting, Atlanta GA.
- 05/15 Preeclampsia, Eclampsia and Other Hypertensive Disorders of Pregnancy. Clinical Faculty invited presentation, Newark DE.
- 04/15 Keeping Secrets in Your lab. ASCLS-CO annual meeting, Aurora CO.
- 04/15 Metabolic Syndrome: A Numbers Game. ASCLS-CO annual meeting, Aurora CO.
- 04/15 Preeclampsia, Eclampsia and Other Hypertensive Disorders of Pregnancy. ASCLS-PA Annual Meeting, Harrisburg PA
- 10/14 Keeping Secrets in Your Lab? Webinar offered by Siemens Diagnostics
- 07/14 Keeping Secrets in Your Lab? ASCLS annual meeting, Chicago IL
- 07/14 Navigating the Road to Publishing: We Are Here to Help. ASCLS annual meeting, Chicago IL
- 07/14 E&R Submission 101. Fritsma G, McLane MA. Roundtable presented at the ASCLS annual meeting, Chicago IL.
- 07/14 Keeping Secrets in Your Laboratory? ASCLS Advanced Management Institute, Chicago IL
- 06/14 Evidence-Based Clinical Chemistry: Why the Mystery? ASCLS Region II meeting, Timonium MD
- 06/14 Metabolic Syndrome...It's a Numbers Game. Webinar offered by Siemens Diagnostics
- 05/14 Keeping Secrets in Your Lab? Clinical Faculty invited presentation, Newark DE
- 02/14 Scholarly Activity with No Time or Money. Flaws MB, Leclair S, Campbell S, Scanlan P. McLane MA. ASCLS Clinical Laboratory Educators Conference, San Jose CA.
- 08/13 E&R Submission 101. Fritsma G, McLane MA. Roundtable presented at the ASCLS annual meeting, Houston TX.
- 05/13 Communicating Geriatric-Centered Clinical Laboratory Issues for an Interprofessional Audience. McLane MA and Rempusheski V. poster presented at the Sylvan M. Cohen 2013 Annual Retreat, University of Pennsylvania Institute on Aging, Philadelphia PA.
- 03/13 Communicating Geriatric-Centered Clinical Laboratory Issues for an Interprofessional Audience. McLane MA and Rempusheski V. poster presented at 39<sup>th</sup> Annual Meeting of Association of Gerontology in Higher Education, St. Petersburg FL.
- 02/13 Copyright Issues in Medical Laboratory Science Programs. Clinical Laboratory Educators Conference, Kansas City MO.
- 02/13 Teaching Evidence-Based Practice: PECOT, RAMBO and FAITH. Clinical Laboratory Educators Conference, Kansas City MO.
- 08/12 Viper Venom Disintegrins as Cancer Therapeutics, 1<sup>st</sup> International Symposium on Nanomedicine, UD, Newark DE
- 05/12 Getting Those Initials: The Board of Certification Recertification Process, Lankenau Medical Center, Philadelphia PA
- 05/12 Cystic Fibrosis: Breathing More Easily? ASCLS-PA annual meeting, Philadelphia PA; Teleconference Network of Texas
- 05/12 Evidence-Based Medicine and Health Economics: A Case Study of End Stage Renal Disease, seminar given in HLTH367
- 03/12 Challenges of Being an Academic and a Clinician, seminar given in NURS833
- 02/12 Research and Scholarly Activity of Clinical Laboratory Scientists and Training Programs, poster with 8 co-authors, 2012 Clinical Laboratory Educators Conference, Salt Lake City, UT
- 02/12 Know Your Numbers: Cholesterol, UD Wellness seminar
- 01/12 Cystic Fibrosis: Breathing More Easily? ASCLS-DE

- 09/11 Cystic Fibrosis: Breathing More Easily? Association of Public Health Laboratories (webcast)
- 09/11 Importance of Professional Membership, ASCLS-PA annual meeting, State College PA
- 09/11 Pre-Analytical Variables, ASCLS-PA annual meeting, State College PA
- 08/11 Hailey S, Adams E., McLane MA. The Effect of Eristostatin on Melanoma-Natural Killer Cell Interactions. Poster presented by grad student Hailey at the 4<sup>th</sup> Northeast Regional IDEa meeting, Newport RI
- 06/11 Chemistry and Urinalysis Review, ASCLS-PA annual meeting
- 05/11 Evidence-Based Practice in the Clinical Laboratory, ASCLS-NE-IA annual meeting, La Vista NE
- 05/11 White Coat Ceremony, University of Texas-El Paso
- 04/11 Providing the Face of the Clinical Laboratory, ASCLS-NE/IA annual meeting, La Vista NE
- 03/11 PBL in a non-PBL Setting, UD Spring Teaching Roundtable
- 03/11 Life After Neumann, Neumann University, Aston PA
- 04/11 Assumptions about Clinical Laboratory Reference Ranges: When Is “Normal” not Normal?, Interprofessional Grand Rounds, Thomas Jefferson University, Philadelphia PA
- 02/11 BYOA: Bring Your Own Abstract V, 2011 Clinical Laboratory Educators Conference, Ft. Lauderdale, FL
- 06/10 Disintegrin Intervention between Natural Killer Cells and Malignant Melanoma. Hailey S, McLane MA, Sherrod L, Adams E. Poster #88 presented at the Third Biennial National IDEa Symposium, Bethesda MD (significantly updated data from February poster)
- 05/10 The “Black Box” of Clinical Laboratory Testing, Newark Senior Center
- 02/10 Disintegrin Intervention between Natural Killer Cells and Malignant Melanoma. McLane MA, Hailey S, Sherrod L, Adams E. Poster #A32 presented at Cell Death Mechanisms and Cancer Therapy, San Diego CA
- 11/09 The ‘Black Box’ of Clinical Laboratory Testing: What You Don’t Know Can Hurt You”, Delaware Academy of Medicine
- 09/09 Medical Technology Personnel: Essential to Physicians”, Wellness Lectures, Academy of Lifelong Learning, DE
- 04/09 The Human Guinea Pig: Experimentation at Its Best and Worst, UD Catholic Scholars seminar, DE
- 12/08 Evidence-Based Clinical Laboratory Cases, Laboratory Education from North Dakota
- 10/08 Professionalism and Ethics, ASCLS-NJ
- 10/08 Providing the Face for the Clinical Laboratory, ASCLS-NJ
- 10/08 HDL: The Changing Test paradigm, Teleconference Network of Texas
- 08/08 Evidence-Based Clinical Chemistry Cases, ASCLS annual meeting, Washington DC
- 07/08 Update on 4<sup>th</sup> International Conference on Exogenous Factors Affecting Thrombosis and Haemostasis, 54<sup>th</sup> Annual Meeting of the Scientific and Standardization Committee of the ISTH, Vienna Austria
- 04/08 eGFR: What is it? Why is it important?, ASCLS-NJ annual meeting; ASCLS-PA annual meeting
- 04/08 New paradigm for HDL Cholesterol, VSCLS annual meeting
- 04/08 Tips and tricks of successful grant writers, Clinical Laboratory Educators Conference
- 07/07 Dynamics of disintegrin disruption of integrin structure and function. Hantgan RR, Stahle MC, Connor JH, Connor RF, Mousa SA, McLane MA, Buchmueller KL, Weisel JW, Horita DA, Rocco M. XXIst Congress of the International Society on Thrombosis and Haemostasis, Geneva, Switzerland
- 04/07 eGFR: What is it and why is it important? Annual meeting of the Virginia Society for Clinical Laboratory Science, Williamsburg VA
- 04/07 Renal physiology and pathology review. Annual meeting of the Virginia Society for Clinical Laboratory Science, Williamsburg VA

- 02/07 Eristostatin, a viper venom-derived inhibitor of melanoma cell function. McLane MA, Tian J, Paquette-Straub C. Presented at 4<sup>th</sup> Annual Cancer Drugs Research and Development, Philadelphia PA.
- 09/06 The disintegrin eristostatin causes changes in serine-threonine phosphorylation in fibronectin-adherent melanoma cells. McLane MA, Tian J, DiRosato SC, Paquette-Straub C. Presented at the 11<sup>th</sup> International Congress of Metastasis Research Society, Tokashima, Japan.
- 07/06 Effect of the disintegrin eristostatin on melanoma cell signal transduction. Paquette-Straub C, DiRosato SC, McLane MA. Presented at the 15<sup>th</sup> World Congress on Animal, Plant and Microbial Toxins, Glasgow Scotland
- 06/06 Leadership: advocacy and effective communication. Presented at meeting of Capital Area Society for Clinical Laboratory Science, Washington DC.
- 05/06 Patient Safety Issues: Where does the lab professional fit in? Keynote address at WCSCLS dinner meeting, Faimont WV
- 05/06 Patient Safety Issues: Where does the lab professional fit in? Presented at ASCLS-PA annual spring meeting, King of Prussia PA
- 04/06 Effects of the monomeric disintegrin eristostatin on melanoma intracellular protein tyrosine phosphorylation. Hensley DH, Paquette-Straub C, McLane MA. Presented at Experimental Biology 2006, San Francisco CA
- 04/06 Eristostatin, an RGD-containing disintegrin, inhibits melanoma cell migration. Tian J, Zhang X, Paquette-Straub C, McLane MA. Presented at the 97<sup>th</sup> annual meeting, American Association for Cancer Research, Washington DC.
- 04/06 Patient Safety Issues: Where does the lab professional fit in? Keynote address at ASCLS-NJ annual spring meeting, Long Branch NJ
- 03/06 Creating a culture of consumer advocacy for our students. Presented at 2006 Clinical Laboratory Educators' Conference, San Antonio TX
- 12/05 Integrin:fibrinogen interactions are linked to binding site remodeling. Hantgan RR, Stahle MC, Connor JH, Horita, DA, Rocco M, Weisel JW, McLane MA, Yakovlev S, Medved L. Presented at American Heart Association annual meeting.
- 08/05 Scratching below the surface: Wound healing and alanine mutagenesis provide unique insights into interactions between eristostatin and melanoma cells. Presented at 3<sup>rd</sup> International Conference on Exogenous Factors affecting Thrombosis and Hemostasis, Sydney Australia
- 08/05 Alanine mutagenesis demonstrates functional importance of four amino acids within the disintegrin eristostatin: implications for its anti-platelet and anti-cancer properties. Presented at Congress of the International Society on Thrombosis and Haemostasis, Sydney Australia; poster #P0938.
- 08/05 Disintegrins: The challenge of nomenclature. Presented at the Special Subcommittee meeting on Exogenous Hemostatic Factors, Sydney Australia.
- 05/05 Formed elements: Putting urinalysis under the microscope. American Society for Clinical Laboratory Science-Pennsylvania.
- 04/05 CLS – Putting a face to the name. Keynote address, American Society for Clinical Laboratory Science-New Jersey; also presented at meeting of West Virginia Society for Clinical Laboratory Science.
- 02/05 Consumer Advocacy: The role of the clinical laboratory professional. 21<sup>st</sup> Annual Clinical Laboratory Educators' Conference, Williamsburg VA
- 02/05 Integrin priming mechanisms elucidated by studying  $\alpha$ IIb $\beta$ 3: echistatin interactions. Hantgan RR, Stahle MC, Connor JH, Lyles DS, McLane MA, Nagaswami C, Weisel JW, Horita DA, Rocco M. presented at 49<sup>th</sup> annual meeting, Biophysical Society, Long Beach CA.
- 02/04 Echistatin disrupts integrin  $\alpha$ IIb $\beta$ 3's conformation and short-circuits its function. Hantgan RR, Stahle MC, Conner JH, Lyles DS, Horita DA, Rocco M, Weisel JW, McLane MA. Poster #2659-POS, Presented at 48th annual meeting, Biophysical Society, Baltimore MD.

- 09/03 Disintegrins and integrins: Always working together? McLane MA. Presented at 14<sup>th</sup> World Congress on Animal, Plant and Microbial Toxins, Adelaide Australia.
- 09/03 Cloning, expression and characterization of a bi-functional disintegrin/alkaline phosphatase hybrid protein, Butera D, McLane MA, Paquette-Straub C, Duncancel F, Moura da Silva AM. Poster 11801, Presented at 14<sup>th</sup> World Congress on Animal, Plant and Microbial Toxins, Adelaide Australia.
- 09/03 Leadership development workshop, New Jersey Society for Clinical Laboratory Science.
- 07/03 Hands-on opportunity to discover laboratory professionalism through structured coursework. Record DL, McLane MA. CLS 16 (3), 144 (poster).
- 07/03 Adaptation of a urine-based drug screening assay to use serum. McLane MA, Wannemacher K, Miller S. Clin Lab Sci 16 (3), 142 (poster).
- 07/03 Effect of the disintegrin eristostatin on hematogenous metastasis in three models of human malignant melanoma. Poster #5911, Proceedings of the American Association for Cancer Research 44: 1180.
- 06/02 Commencement address, Reading Hospital program in Medical Technology, Reading PA
- 05/03 Direct access Testing: Are you ready? Presented for the Pennsylvania Society for Clinical Laboratory Science annual spring meeting
- 04/03 Professionalism and human nature: What's the connection? presented at the annual meeting of the Virginia Society for Clinical Laboratory Science, Richmond VA
- 04/03 Understanding your lab test results (Part 2), UD Wellness Center
- 04/03 Promoting the profession of medical technology, Children's Hospital of Philadelphia
- 03/03 National Perspectives – From Bioterrorism to Workforce Shortage. Presented at the Clinical laboratory Educators' Conference, New Orleans LA
- 01/03 Understanding your lab test results, UD Wellness Center
- 07/02 Honors Urinalysis: Student-developed web-based case studies. McLane MA, Leclair S. Poster presentation, American Society of Clinical Laboratory Science
- 06/02 Natural killer (NK) cells. Teleconference network of Texas
- 04/02 Potential receptors for the binding of eristostatin to melanoma cells. Wong A, Paquette-Straub CA, McLane MA. poster presentation #146.5, Experimental Biology 2002, New Orleans LA
- 04/02 Patient advocacy: Explaining clinical chemistry results to the general public. Pennsylvania Society for Clinical Laboratory Science annual meeting.
- 03/02 The Antimetastatic Property of Viper Venom Disintegrins. 2<sup>nd</sup> Biennial Research Infrastructure in Minority Institutions Symposium, Baltimore MD
- 11/01 What can we do to bring more professionals into the clinical laboratory field? Presented for the Maryland Society for Clinical laboratory Science, Baltimore MD
- 08/01 Comparison of disintegrin expression by two strains of *E. coli*. Stanek PA, Paquette-Straub C, McLane MA. Accepted for poster presentation (#P46) at 7<sup>th</sup> Symposium, Pan-American Section of the International Society on Toxinology on Animal, Plant and Microbial Toxins, Charlottesville VA.
- 08/01 The importance of hydrophobic residues in eristostatin's binding to melanoma cells. Kuchar M, Paquette-Straub C, McLane MA. Accepted for poster presentation (#P19) at 7<sup>th</sup> Symposium, Pan-American Section of the International Society on Toxinology on Animal, Plant and Microbial Toxins, Charlottesville VA.
- 08/01 The effect of eristostatin on the binding of anti- $\alpha 4$  to melanoma cells. Wong A, Paquette-Straub C, McLane MA. Accepted for poster presentation (#P57) at 7<sup>th</sup> Symposium, Pan-American Section of the International Society on Toxinology on Animal, Plant and Microbial Toxins, Charlottesville VA.
- 08/01 Production of Jar49, eristostatin and the chimerical ECD-eristostatin in fusion with *Escherichia coli* alkaline phosphatase (AP). Butera D, Skielka K, McLane MA, Ducancel F, Moura-da-Silva AM. Accepted for poster presentation (#P7) at 7<sup>th</sup> Symposium, Pan-American Section of the International

- Society on Toxinology on Animal, Plant and Microbial Toxins, Charlottesville VA.
- 07/01 New insights on disintegrin-receptor interactions: Eristostatin and melanoma cells. McLane MA, Brando C, Paquette-Straub C, Kuchar M, Miele ME. International Conference on Exogenous Factors affecting Thrombosis and Haemostasis, Paris, France.
- 07/01 <http://.../~student/webpage.html>. Miele ME, McLane MA. 69<sup>th</sup> annual meeting of American Society for Clinical Laboratory Science, Chicago IL.
- 04/01 Molecular mechanisms used in eristostatin's inhibition of metastasis. Kuchar MA, Paquette CA, McLane MA. Accepted for poster presentation (#180.8) at annual meeting of American Society for Biochemistry and Molecular Biology, Orlando FL
- 03/01 Increased susceptibility of melanoma cells to cytotoxic killing after treatment with the disintegrin eristostatin. Miele ME, Brando C, Santoli D, McLane MA. Accepted for poster presentation (#2343) at annual meeting of American Association for Cancer Research, New Orleans LA.
- 12/00 Critical amino acids involved in interactions between eristostatin and human melanoma cells. McLane MA, Kuchar MA, Paquette CA, Miele ME. Mol Biol Cell 11: 263A, poster abstract 1371, 2000.
- 02/00 Homemade vs. Commercial: Graphics and On-Line Testing. Roundtable discussion during "Incorporating Technology in Your Teaching, UD, 3/17/2000.
- 01/00 Changing a ligand's receptor selectivity: studies using snake venom disintegrins and the cell surface receptors for fibrinogen, vitronectin and fibronectin, Universita Degli Studi di Napoli Federico II, Naples, Italy.
- 12/99 Mutations in the RGD motif in the disintegrin eristostatin alter its potency and integrin selectivity. Lesico S, Paquette C, McLane MA. Mol Biol Cell 10: 343a, poster abstract 1986, 1999.
- 08/99 Structural requirements for  $\alpha 5\beta 1$  recognition by echistatin. Wierzbicka-Patynowski I, McLane MA, Marcinkiewicz C, Senadhi V-K, Niewiarowski S. Thromb Haem August supplement, 233, poster abstract 733, 1999.
- 08/99 Monomeric disintegrin chimeras demonstrate the importance of a ligand's C-terminus in integrin-ligand interactions. McLane MA, Wierzbicka-Patynowski I, Niewiarowski S. Thromb Haem August supplement, 79, poster abstract 238, 1999.
- 07/99 Structural requirements for the binding of the disintegrin ligand eristostatin in its interactions with three integrin receptors. McLane MA. CLS 12:203-204, 1999.
- 12/98 McLane MA, Patynowski I, Marcinkiewicz, Senadhi V. Effect of mutations in RGD loop and C-terminus of disintegrin eristostatin on its interactions with three integrins. Mol Biol Cell 9: 296a, poster abstract 1719, 1998.
- 12/98 Niewiarowski S, Patynowski I, Marcinkiewicz C, McLane MA, Darzynkiewicz Z, Funk SE, Sage EH. Disintegrin interaction with  $\alpha v\beta 3$  integrin on endothelial cells results in apoptosis and inhibition of growth. Mol Biol Cell 9: 368a, poster abstract 2135.
- 12/98 Patynowski I, McLane MA, Marcinkiewicz C, Senadhi V, Niewiarowski S. Domains of echistatin interacting with integrins  $\alpha IIb\beta 3$ ,  $\alpha v\beta 3$  and  $\alpha 5\beta 1$ . Mol Biol Cell 9: 297a, poster abstract 1722.
- 11/98 Snakes, Heart Disease and Cancer: Unique Connections. Presented at noontime seminar series for College of Health and Nursing Sciences
- 08/98 McLane MA. Becoming a webmaster for your state society. Presented at Annual Meeting of American Society for Clinical Laboratory Science, 8/5/98.
- 08/98 McLane MA, Wierzbicka-Patynowski I, Merlock G, Vijay-Kumar S, Marcinkiewicz C, Niewiarowski S. Changing a ligand's receptor selectivity: Studies using snake venom disintegrins and the cell surface receptors for fibrinogen (FgR), vitronectin (VnR) and fibronectin (FnR). Clin Lab Sci 11: 219.
- 12/97 McLane MA, Wierzbicka-Patynowski I, Niewiarowski S. Alterations of the hydrophobicity in the RGD

- loop of disintegrins: Effect on potency in interactions with  $\alpha$ IIb $\beta$ 3 integrin. *Blood* 90: 78b, poster abstract 3054.
- 12/97 Wierzbicka-Patynowski I, McLane MA, Marcinkiewicz C, Senadhi V, Niewiarowski S. Importance of the RGD loop and the C-terminus of disintegrins on their interaction with  $\alpha$ IIb $\beta$ 3 and  $\alpha$ v $\beta$ 3 receptors. *Blood* 90: 80b, poster abstract 3066.
- 12/97 McLane MA, Wierzbicka I, Niewiarowski S., Marcinkiewicz C, Senadhi V. Both the RGD sequence and C-terminus of disintegrins are essential for their full potency in interactions with  $\alpha$ IIb $\beta$ 3 and  $\alpha$ v $\beta$ 3. *Mol Biol Cell* 8: 290a, poster abstract 1680.
- 12/97 Calvete JJ, Schrader M, Raida M, McLane MA, Romero A, Niewiarowski S. Determination of the disulphide bind pattern of bitistatin. A structural model. *Mol Biol Cell* 8: 290a, poster abstract 1681.
- 07/97 McLane MA, Wierzbicka I, Niewiarowski S, Marcinkiewicz C, Senadhi V. Recombinant disintegrins demonstrate importance of Arg-Gly-Asp loop structure in ligands of the fibrinogen and vitronectin receptors. *Clin Lab Sci* 10: 135.
- 04/97 Wierzbicka I, Marcinkiewicz C, Senadhi V, Niewiarowski S, McLane MA. Both the RGD sequence and C-terminus of disintegrins are essential for their full potency in interactions with  $\alpha$ IIb $\beta$ 3. *FASEB J* 11: A311, poster abstract 1807.
- 12/96 McLane MA, Marcinkiewicz C, Wierzbicka I, Hong J, Niewiarowski S. Effect of a double mutation in the RGD loop of the disintegrin echistatin on its interaction with  $\alpha$ IIb $\beta$ 3 and  $\alpha$ v $\beta$ 3 integrins. *Blood* 88: 59, poster abstract 113.
- 12/96 Marcinkiewicz C, Vijay-Kumar S, McLane MA, Niewiarowski S. Significance of RGD loop and C-terminal domain of echistatin for recognition of  $\alpha$ IIb $\beta$ 3 and  $\alpha$ v $\beta$ 3 integrins and expression of ligand induced binding sites. *Blood* 88: 129, abstract 1110.
- 12/95 McLane MA, Vijay-Kumar S, Marcinkiewicz C, Calvete JJ, Niewiarowski S. Importance of the structure of the RGD-containing loop of echistatin and ristostatin for recognition of  $\alpha$ IIb $\beta$ 3 integrin. *Blood* 86: 555a, poster abstract 2206.
- 12/95 Marcinkiewicz C, McLane MA, Vijay-Kumar S, Rosenthal LA, Niewiarowski S. Structural requirement of disintegrins for expression of ligand induced binding site on platelet  $\alpha$ IIb $\beta$ 3 integrin. *Blood* 86: 553a, poster abstract 2199.
- 07/95 McLane MA, Niewiarowski S. Comparison of two naturally-occurring fibrinogen receptor antagonists, albolabrin and decorsin, using whole platelets and purified GPIIb/IIIa receptor complex. *Clin Lab Science* 8: 150.
- 06/95 McLane MA, Marcinkiewicz C, Niewiarowski S. Disintegrins induce expression of ligand-induced binding sites on platelets and Chinese hamster ovary cells transfected with  $\alpha$ IIb $\beta$ 3 which correlates with disintegrin binding affinity to resting platelets. *Thromb Haem* 73: abstract 1125.
- 06/95 Gabbeta J, Yang X, McLane, MA, Niewiarowski S, Rao AK. Abnormal inside-out signal transduction-dependent activation of GPIIb-IIIa in a patient with impaired plekstrin phosphorylation. *Thromb Haem* 73: abstract 610.
- 04/95 McLane MA, Marcinkiewicz C, Juliano D, Rosenthal LA, Mosser DM, Niewiarowski S. Disintegrins induce expression of ligand-induced binding sites on platelets and Chinese hamster ovary cells transfected with  $\alpha$ IIb $\beta$ 3. *FASEB J* 9: abstract 4854.
- 04/95 McLane MA. Using recombinant venom proteins to study the function of the platelet fibrinogen receptor. PSCLS annual meeting.
- 06/94 McLane MA. Interaction of venom peptides (disintegrins) with the platelet fibrinogen receptor. *Clin Lab Science* 7: 147.
- 06/94 McLane MA, Beviglia L, Niewiarowski S and Lazarus R. Comparison of the interaction of decorsin and

albolabrin with platelets and purified  $\alpha$ IIb $\beta$ 3 in the presence of fibrinogen or von Willebrand factor. Poster presented at Gordon Research Conference "Hemostasis".

- 11/93 McLane MA, Beviglia L, Lazarus R and Niewiarowski S. Comparison of the interaction of decorsin and albolabrin with human and mouse platelets. *Circulation* **88**: I-516, abst 2778.
- 07/93 McLane MA, Beviglia L, Shattil SJ and Niewiarowski S. Disintegrins differ in their in vivo and in vitro effects on platelet function. *Throm Hemost* **69**: 925, poster abstr 1388.
- 02/93 McLane MA, Kowalska MA, Silver L and Niewiarowski S. Interaction of disintegrins with glycoprotein IIb/IIIa. Poster presented at Gordon Research Conference "Fibronectin and related molecules".
- 02/93 Niewiarowski S, Lasz EC, McLane MA and Budzynski A.  $\beta$ 3 integrin peptide 217-230 inhibits fibrinogen binding and platelet aggregation. Significance of RGD sequences and fibrinogen A $\alpha$ -chain. Poster presented at Gordon Research Conference "Fibronectin and related molecules".
- 11/92 McLane MA, Silver L, Kowalska MA, Stewart G and Niewiarowski S. Disintegrins detect increase of ligand binding affinity of  $\alpha$ IIb $\beta$ 3 during platelet activation. *Circulation* **86**: I-683, abstract 2720.
- 04/92 Using snake venom proteins to study platelet biochemistry, structure and function. PSMT annual meeting.
- 12/91 McLane MA, Trybulec M, Silver L and Niewiarowski S. Application of disintegrins for estimation of number and affinity of functionally active fibrinogen binding sites on the platelet surface. *Blood* **78**: 139a, poster abstract 548.
- 12/91 Trybulec M, Silver L, McLane MA, Lu W and Niewiarowski S. Exposure of fibrinogen receptors on the platelet membrane by zinc ions. *Blood* **78**: 139a, poster abstract 547.
- 07/91 Trybulec M, Silver L, McLane MA, Lu W and Niewiarowski S. Effect of zinc on the interaction between fibrinogen and platelet glycoprotein IIb/IIIa (GPIIb/IIIa). Poster, International Congress of Hematology and Hemostasis, Amsterdam.
- 04/91 McLane MA, Calvete JJ, Cook JJ, Beviglia L and Niewiarowski S. Isolation and characterization of a proline rich protein from the venom of *Trimeresurus albolabris* and its effect on platelet aggregation. *The FASEB J* **5**: A899, poster abstract 3077.
- 04/89 Predictive value theory. PSMT annual meeting, Valley Forge PA
- 05/88 Evaluating computer assisted instruction. Workshop, PSMT annual meeting, Harrisburg PA
- 04/88 Predictive value theory. Southeast chapter PSMT, Philadelphia
- 11/87 Certifying examinations. PSMT Student forum, Harrisburg
- 06/87 Symposium in Computer Applications: Using an Exam Generator. ASMT annual meeting, Las Vegas, NV
- 06/87 McLane MA and Christian E. Effect of local hydrocortisone phonophoresis on serum glucose and cortisol levels in rats. Poster, ASMT annual meeting, Las Vegas NV
- 04/87 "Computer software demonstration" workshop, PSMT annual meeting, White Haven PA
- 09/86 "Effect of Hydrocortisone phonophoresis on blood glucose and cortisol levels in mice", oral presentation, Collaborative Research in Allied Health Symposium, Columbus OH
- 06/86 "A pilot study of the effectiveness of computer assisted instruction on learning selected topics in phlebotomy", poster, ASMT annual meeting, New Orleans LA
- "Computer assisted instruction using Superpilot" workshop: PSMT annual meeting, Philadelphia PA (12/85); School of Community and Allied Health, University of Alabama at Birmingham (8/84)

PROFESSIONAL SOCIETY ACTIVITY (Elected leadership in bold)

## Local Delaware Valley Chapter, ASCLS-PA

Bylaws chairman, 1996-1998

**President-elect 1986-87****President 1987-88**

Student bowl judge 1983, 1984, 1985, 1987

Editor, chapter newsletter TECH-NICALITIES, 1988-1990

## State (ASCLS-PA)

Annual meeting committee program co-chair, 1989

Bylaws committee 1986-89, 1996-1998; acting chair 1987-88, chair 1988-89, 1996-99

Delegate 1987-2002

Biochemistry scientific assembly 1981-91

Continuing education assistanceship committee 1980-85

Student bowl area coordinator 1984, 1986

Student bowl state co-coordinator 1985

**Board of Directors 1989-1996, 1999-2002****Treasurer 1990-1993****President-elect 1993-94****President 1994-95****Past President 1995-96**

Annual meeting (1998, 2002) General Co-Chair

Website task force 1997-98

Webmaster 1998-2002

Student Forum Certification Exam Review, 5/13/99, 8/10/02, 6/7/04, 6/6/05, 6/3/06, 6/2/12

Annual meeting (2000) Registration Committee

Annual meeting (2002, 2004, 2006) General Chair

## State (ASCLS-DE)

Colossal Colon exhibit at Brandywine Town Center, 4/1/06

**President-elect, 2011-12****President 2012 - present**

## State (ASCLS-NJ)

Consultant for UMDNJ development of case scenario for 3<sup>rd</sup> year medical students, April 2006

Chatroom responder for ASCLS-NJ virtual career fair, 10/23/14

## Regional (ASCLS Region II)

Fall meeting committee 1995-96

Website development task force 1997-98

Clinical chemistry judge, West Virginia annual student bowl competition, 4/5/03

**Region Director, 2002 - 2008**

## National (ASCLS)

ASCLS Biochemistry scientific assembly 1981-present

ASCLS Delegate 1987-89, 1992-2003, 2012-present

Reviewer of ASMT mini-course 1982

ASCLS Education scientific assembly 1981-present



ASCP Certification exam proctor 1980, 1981  
 NCA certification exam proctor 1984, 1985  
 CAHEA self study critiquer 1984, 1985, 1986  
 Lab Supervisor Survey Task Force 1992-93  
 NCA Exam Questions submitted: 1994, 1999  
 ASCLS Bylaws committee 1990-96, 97-00; Vice-chair, 1993-94; Chair 1994-96  
 ASCLS Awards Committee 1997-02, chair 1999-2002  
 Search committee for Director of Education: 6/98  
 Alpha Mu Tau Fraternity newsletter editor: 1997-2003  
 Alpha Mu Tau Fraternity Presidential Officer: 2011-14  
 Alpha Mu Tau Fraternity Bylaws Committee: 2014-15  
 Alpha Mu Tau Fraternity Secretary, 2016-present  
 ASCLS Consumer Website Response Team: 2000 – present  
 Board of Directors, Region II 2002-2008  
 Interim Region I Director, June – August 2006  
 Moderator at Clinical Laboratory Educators' Conference, February 2006  
 Judge for posters submitted to ASCLS annual meetings, July 2006, 2012  
 Coordinator for ASCLS booth at USA Science Festivals, Washington DC 2010, 2012, 2014  
 ASCLS Awards Task Force, 2006-2007  
**ASCLS President-elect 2008-2009**  
**ASCLS President 2009-2010**  
**ASCLS Past President 2010-2011**  
 ASCLS Nominations Committee, 2011-12  
 ASCLS Geriatric Position Paper Task Force, 2011-2012  
 Moderator at ASCLS annual meeting 2012-2016

### University Service

#### University of Delaware

Responsible Conduct of Research Council, 2005-2006  
 Panelist at Faculty Panel Discussion on P&T process, 3/17/06  
 Delaware Discovery Days, 7/8/06  
 University Honors Program: "Bright Minds" Weekend, October 2006  
 Strategic Planning Committee, 2014-2015  
 University Promotion & Tenure Committee, 2013-present; chair 2015-present

#### University of Delaware: Department of Biological Sciences

Host for Dr. Ana Maria Moura da Silva visit, 8/13/01  
 Biology Department: training and consultation for mouse blood smears, November 2006  
 Molecular Biology and Genetics Preliminary Exam Committee, 2006-2012  
 Cell Physiology Preliminary Exam Committee, 2010-11  
 Thesis Committees for Jing Tian (MS 2007), Stefan Hailey (MS 2011), David Scheiblin (PhD 2014), Mallika Pathania (PhD, 2015), Angie Claxton (MS 2016), Yichen Wang (PhD, 2013-present)

#### University of Delaware: Department of Chemistry/Biochemistry

Thesis committees for: Pumtiwitt Rancy (PhD 2008)

University of Delaware: College of Health Sciences

Research Task Force: Fall 1996  
 Curriculum Committee, 1997 - 2000; chair 1998-2000  
 Health Services Administration Master's Program: Spr 1998 - 2005  
 Departmental Chairman Review Committee (Anna Ciulla): Fall 1999, 2008  
 University Faculty Senator: 9/1/99-8/31/01  
 Training of Wellness graduate students on Cholestech Analyzer, each fall since 2001  
 Advisory Committee for Conflict of Interest, 2003-2006  
 Grade Inflation Task Force, 2003 to 2006  
 CHS rep to the university animal care committee, fall 2005  
 Dietetic Internship Orientation, 8/21/05, 8/16/06  
 Promotion and Tenure Committee, 2006 – 2009; ad hoc 2014  
 INBRE Fellowship mentoring: Kathy Schell (nursing), January 2006 – 2007  
 Interview of DBI Director candidate, 3/17/06  
 Wellness Center Men's Health screening, 5/23/06  
 Wellness Center Employee health screening, 11/13/06  
 Member, Committee on Governance, 2005-2009  
 Member, Conflict of Interest Committee, 2012-2014  
 Member, Behavioral Health & Nutrition P&T Committee, 2012  
 Member, Chair 5-year Review Committee, BHAN, 2014  
 Graduate Program Director, PhD in Medical Sciences, 2012-present

University of Delaware: Department of Medical Laboratory Sciences

3-Year Planning Committee, chair: Fall 1996  
 Balloon Fest Committee, co-chair, Fall 1997; career info, Smyth Residence Hall 11/11/1997  
 Med Lab Week article for UpDate, Spring 1998; Kiosk activity during Med Lab Week  
 Delaware Junior Science and Humanities Symposium 3/17/1998  
 Parents' Day 5/2/1998  
 Coordinated National Medical Laboratory Week activities, Spring 1999  
 Discovery Days: 7/17 and 7/24/99  
 Careers in Science for rising 8<sup>th</sup> graders (program of Delaware Nature Society): 7/22/99  
 Career Shadowing Program, McKean High School, 3/7/01  
 Honors Overnight Program, 4/6/01  
 Participation in the design of the Willard Hall renovations, summer 2001 to 2002  
 Department contact for the Science and Engineering Scholars Program, 2001-present  
 Advisory Committee, 2003 to present  
 Thesis committee Chair for Jing Tian, (MS), 2003 – 2007  
 Thesis Committee Chair for Stefan Hailey (MS), 2009-2011  
 5-year Academic Planning Cmte, 2004-2005  
 Clinical Microbiologist Search Committee, 2006  
 Department P&T Committee 2005-2006, Chair 2012-14  
 Distinguished Scholar tour, 3/7/06  
 Organized departmental donation to Haiti clinical labs, April 2006  
 MT department student appeal committee, August 2006  
 Faculty Mentoring Initiative (Dr. Michelle Parent, Dr. Arun Kumar), 2006-present  
 Department Chairman Search, 2011, 2014, 2015  
 Laboratory Coordinator search, 2015  
 Clinical Chemistry faculty searches, 2015, 2016

Journal/book reviewer

Thrombosis and Haemostasis, 1995  
 Biochemica et Biophysica Acta, 1996  
 Society for Experimental Biology and Medicine, 1997  
 Mosby publishers, 1999  
 Blood, 2000  
 European Journal of Biochemistry, 2001  
 Journal of Cell Science, 2001  
 Biochemica et Biophysica Acta, 2001  
 Journal of Pharmacy and Pharmacology, 2003  
 Journal of Molecular Biology, 2003  
 Gene, July 2006  
 Journal of Molecular Evolution, July 2006  
 Proteome Research, September 2006  
 ADVANCE for Medical Laboratory Professionals, September 2006  
 Prentice Hall publishers, October 2006  
 Lippincott publishers, October 2006  
 Comparative Biochemistry and Physiology, July 2008  
 Expert Opinion On Drug Discovery, November 2008  
 Clin Lab Science, December 2011  
 Toxicon, October and December 2011, January 2012, March 2012 (x2), April 2012, May 2012  
 Biochemical Journal, September 2012

Other Service

PA Bureau of Laboratories Advisory Committee 1994-1996  
 PA Coalition for Quality Laboratory Testing 1994-1999  
 Editorial board for **ADVANCE for Medical Laboratory Professionals**, 1999-2006  
 Subcommittee on the Registry of Exogenous Factors, 2001 to present  
 Wellness Committee (cholesterol screenings), Resurrection Parish, Wilmington DE, 2002, 2003  
 Reviewer, Comparative Medicine Review Committee, NIH, 10/1/02 – 10/2/02  
 Consultant and Advisory Board, Natural Toxins Research Center, Texas A&M University at Kingsville TX,  
 2003 to present  
 Co-Chairman of the ISTH-SSC Registry of Exogenous Hemostatic Factors, 2005-present (chair 2007-2009)  
 Invited to be on an NIH review panel for “Clinical Lab Diagnostics for Invasive Aspergillosis”, September 7,  
 2006  
 Alpha Mu Tau Fraternity, Junior board member, 2006-2007; **Presidential Officer 2011-2014**,  
 Secretary 2015-17  
 Expert Panel Member for doctoral dissertation candidate, West Virginia University School of Medicine,  
 January 2007  
 Neumann University Advisory Committee, CLS program, 2008 - present  
 External reviewer for faculty member (promotion) from Michigan State University 2006; Philadelphia  
 University of the Sciences 2007; St. Louis University 2008; University of Buffalo 2009, University of  
 Wisconsin-Milwaukee 2009, University of Minnesota 2010, University of Medical and Dentistry of New  
 Jersey 2011, Texas State University, 2012, Bellermine University 2014, 2015  
 Invited to review NIH grant being submitted by University of Nevada Las Vegas, November 2008  
 Grant reviewer for National University of Singapore, April 2008, Italian Ministry for Education University and  
 Research, January 2009

Organizing Chairman for the 4<sup>th</sup> International Conference on Exogenous Factors Affecting Thrombosis and Haemostasis, July 17-19, 2009, Boston MA: includes all speaker contacts, hotel contractual arrangements, coordinating with colleagues at the University of Massachusetts for actual meeting venue

Independent Contractor to review and create course content for MLT Test Prep Review – Module 2, Career Education Corporation, December 2011

External evaluator for proposed Master of Laboratory Medicine program, United Arab Emirates, May 2012