CURRICULUM VITAE

**Date of Revision:** March 15, 2017

**Name:** Bauer E. Sumpio, M.D., Ph.D.

**Education:**

B.A. Johns Hopkins University (Chemistry) 1974

M.A. Johns Hopkins University (Physical Chemistry) 1974

M.D. Cornell University Medical College 1980

Ph.D. Cornell University Medical College (Physiology) 1981

**Career/Academic Appointments:**

1981-82 Intern, General Surgery, Yale-New Haven Hospital, New Haven, CT

1982-86 Resident, General Surgery, Yale-New Haven Hospital, New Haven, CT

1986-87 Fellow, Vascular Surgery, University of North Carolina, Chapel Hill, N.C.

1987-90 Assistant Professor, Dept. of Surgery, Yale University School of Medicine, New Haven

1990-93 Associate Professor, Dept. of Surgery, Yale University School of Medicine, New Haven

1993-94 Associate Professor (Tenure), Dept. of Surgery, Yale University School of Medicine, New Haven

1994-present Professor (Tenure), Dept. of Surgery, Radiology and Medicine, Yale University School of Medicine, New Haven

**Administrative Positions:**

1995-2014 Chief, Vascular Surgery, Yale University School of Medicine, New Haven, CT

1996-present Associate Director, Graduate Medical Education, Yale University School of Medicine, New Haven, CT

2001-present Surgery Liaison, Physician’s Assistants Program, Yale University, New Haven, CT

1995-2014 Program Director, Vascular Surgery, Yale University School of Medicine, New Haven, CT

1993-1995 Program Director, General Surgery, Yale University School of Medicine, New Haven, CT

1987-1995 Chief, Vascular Surgery, VA Connecticut, West Haven, CT

**Board Certification:**Diplomate National Board of Medical Examiners, 1982 Certificate No. 211372

Diplomate American Board of Surgery, 1988 Certificate No. 33700

 (Recertified) 1998 (Recertified) 2009

Special Qualifications in Vascular Surgery No. 100178 1990

 (Recertified) 1997 (Recertified) 2009

**Professional Honors & Recognition**

 **International/National/Regional**

2014: Honorary Fellow, Caribbean College of Surgeons

2002: Honorary Fellow, Philippine College of Surgeons

2000: Research Achievement Award, International College of Angiology

 1996: American College of Surgeons Travelling Fellowship (Australia and New Zealand Chapter)

1991: E. J. Wylie Travelling Scholar in Vascular Surgery

1985: Schering Scholarship Award, American College of Surgeons

**Grant/Clinical Trials History:**

**Current Grants**
Agency: Veterans Administration Merit Review
I.D.# R01 AI22222

 Title: “Regulation of growth factor production by stretched endothelial cells”
P.I.: Bauer Sumpio, M.D., Ph.D.
Percent effort: 25%
Direct costs per year: $170,000
Total costs for project period: $750,000
Project period: 10/01/2010 – 09/31/2015

Agency: NIH/HLBI
ID#: R01 AI22222 Different PI

 Title: “Modelling Hypertrophic Cardiomyopathy Using Human Induced Pluripotent Stem Cells”
P.I.: Yongming Ren, M.D.
Role on Project: Co-investigator
Percent effort: 5%
Direct costs per year: $442,323
Total costs for project period: $7,097,957
Project period: 09/30/2010 – 09/29/2015

**Current Clinical Trials**
None

**Past Grants**

 1. NIH R01 HL 47345-08 (P.I., Funding period: 4/01/03-11/31/09, $1,250,000) "Mechanisms by which EC sense changes in hemodynamics". This grant has been funded since 1991.

2. American Heart Association (National Affiliate) (P.I., Funding Period 7/94-6/97, $120,000) "Characterization of cyclic strain promoter elements"

3. Merck Grant (P.I., Funding period: 12/88-12/94, $60,000) "FK-506 toxicity in the kidney"

3. Illumenex Grant (P.I., Funding Period: 2/93-6/94, $120,000) "Psoralen phototherapy for treatment of restenosis)

4. NIH R29 HL 40305 (P.I., Funding period: 04/88-03/93, $350,000) "Effect of mechanical stress on vascular cells in culture"

5. Whitaker Foundation (P.I., Funding period: 3/89-2/92, $180,000) "Mechanical deformation of endothelial cells grown on different biomaterials and surfaces."

6. American Heart Association, Connecticut Affiliate (P.I., Funding Period: 7/89-6/91, $ 63,000) "Growth of endothelial cells and smooth muscle cells in a pulsatile environment"

7. VA Research Advisory Group 001 (P.I., Funding period: 10/88-9/90, $58,000) "Repetitive mechanical stretching of vascular cells in culture"

8. Biomedical Research Support Grant RR0358 (P.I., Funding period: 1/26/88-1/25/89, $8,500) "The effects of rheology on organ function"

By Members of the laboratory

1. VA Merit Review Grant (P.I. Vivian Gahtan, M.D., 1999-2002, $152,900)

 “The Mechanism of Thrombospondin-1 Induced Chemotaxis”

2. American Heart Association, Heritage Affiliate (P.I. Vivian Gahtan, M.D., 1999-2002) “The role of platelet derived growth factor in thrombospondin-1 induced smooth muscle cell chemotaxis”.

3. Council for Tobacco Research (P.I. Wei Du, M.D., 1994-1997, $150,000)

"Characterization of cyclic strain promoter elements in endothelial cells"

4. American Heart Association, (CT Affiliate) (P.I. Ira Mills, Ph.D., 1992-1994,

$80,000)"Mechanical Signalling in Vascular Endothelial Cells"

3. NASA RFA (P.I. Ira Mills, Funding period: 10/95-9/98, $266,635) “Are G-proteins mechanosensors for endothelial cells?”

By Trainees in the laboratory

1. NIH NRSA 1 F32 HL08674 (1993-1995)

"PKC Activity in EC Subjected to Cyclic Stretch"

Leigh V. Evans, M.D.

2. NIH NRSA 1 F32 HL08675 (1992-1994)

"EDRF production by EC subjected to cyclic strain"

Mark Awolesi, M.D.

3. NIH NRSA IF32HL 08245-01 (1991-1993)

"Modulation of SMC contractility by cyclic stretch of EC"

Mark D. Widmann, M.D.

4. International Society for Cardiovascular Surgery, Student Research Fellowship

(1991-92) "Activation of protein kinase C in endothelial cells by cyclic stretch"

Tae Shin, YMS III ('93)

5. American Heart Association, CT Affiliate, Fellowship (1990-91)

"Signal Transduction of Cyclic Stretch to Endothelial Cells"

Oscar Rosales, M.D.

6. International Society for Cardiovascular Surgery, Student Research Fellowship

 (1990-91) "Production of PDGF by Vascular Cells Subjected to Cyclic Strain"

 Robert Spillane, YMS III ('91)

7. International Society for Cardiovascular Surgery, Student Research Fellowship

(1993-94) "Modulation of endothelial cell phenotype by ambient pressure"

Joseph Ricotta

7. International Society for Cardiovascular Surgery, Student Research Fellowship

(1994-95) "Diacylglycerol formation in vascular endothelial cells"

Lyubov Frenkel

7. International Society for Cardiovascular Surgery, Student Research Fellowship

(1994-95) "Photochemotherapy with 8-methoxypsoralen"

David Lee, YMS II ('96)

**Past Clinical Trials**
1. Prospective, randomized, multicenter evaluation of Distaflo ePTFE bypasss graft in

 lower extremity applications. IMPRA corporation (PI: Bauer Sumpio, MD. PhD)

2. Clinical evaluation of Regranex (beclapermin) Gel 0.01% for the treatment of full-

thickness diabetic neuropathic foot ulcers. Ortho-McNeil Pharmaceuticals. (PI: Bauer Sumpio, M.D., Ph.D.

3. Twelve-week randomized, double-blind multicenter study of the safety and efficacy

 of three oral doses of OPC-28326 versus placebo treatment in patients with

 intermittent claudication secondary to peripheral arterial disease. Otsuka

 America Pharmaceuticals (PI: Bauer Sumpio, MD, PhD).

4. Clinical evaluation of Regranex (beclapermin) gel 0.01% for preparing the wound

bed and shortening the time interval to split-thickness skin grafting and complete wound coverage. Ortho-McNeil Pharmaceuticals. (PI: Bauer Sumpio, M.D., Ph.D.

5. A multicenter, randomized, open-label study comparing the efficacy and safety of once daily ORG 31540/SR90107A versus adjusted-dose intravenous unfractionated heparin in the initial treatment of acute symptomatic pulmonary embolism. “Matisse Study” Organon (PI: Bauer Sumpio, M.D., Ph.D.)

6. Safety, pharmacokinetics and pharmacodynamics of novel acting thrombolytic for initial treatment of chronic peripheral arterial occlusion. Amgen (PI: Bauer ssSumpio, M.D., Ph.D.)

7. A double-blind, efficacy and safety study of the direct thrombin inhibitor, H376/95, versus standard therapy [enoxaparin and warfarin(coumadin)] in patients with acute, symptomatic deep venous thrombosis with or without pulmonary embolism. AstraZeneca (PI: Bauer Sumpio, M.D., Ph.D.)

8. Linezolid vs Aminopenicillins for Diabetic Foot Infections; Phase IV Clinical Trial for Linezolid,Zyvox,76-inf-0026-113. Pharmacia Corporation (PI: Peter Blume, DPM)

9. A Randomized,DoubleBlinded,Parallel-Group,Placebo-Controlled,Milutcenter study to Evaluate the Efficacy and Safety of Repifermin KGF-2 in Subjects with Venous Ulcers Protocol KGF-2-WHO4 Human Genome Sciences (PI: Bauer Sumpio, M.D., Ph.D.)

10. Comparison of Skin Perfusion Pressure, Transcutaneous Oxygen Pressure, and ABI,Determine whether SPP measurements may be better than tcPO2 and ABI for evaluation of lower limb ischemia in patients with chronic wounds Vasamedics Corporation,( PI: Bauer Sumpio, M.D., Ph.D.)

11. Multi-center, Open Label,Pilot Evaluation of the Tolerability, Efficacy and Safety of Oral Heparin/SNAC Solution Protocol No. 325A-C-004,.Emisphere Technologies,Inc. PI: Peter Blume, DPM)

12. A Double Blind ,Placebo Controlled, Parallel Group Study of the Effects of Zoniporide on Perioperative Cardiac Events in High Risk Subjects Undergoing Noncardiac Vascular Surgery Zoniporide Protocol A3181007Pfizer , Inc. (PI: Bauer Sumpio, M.D., Ph.D.)

**Invited Speaking Engagements, Presentations, Symposia & Workshops:**

 1. Federation of American Society of Experimental Biology. Characteristics of a non‑filtering isolated rat kidney preparation. Atlantic City, New Jersey, April 1978.

 2. American Society of Nephrology. Catabolism of B2 microglobulin and cytochrome C by the isolated kidney. Washington, DC, November 1980.

 3. Federation of American Society of Experimental Biology. Tubular absorption of low molecular weight proteins: kinetics, competition and selectivity. Atlanta, GA, April 1981.

1. Shock Society. Enhanced Functional Recovery of Isolated Kidneys Subjected to Warm Ischemia after Treatment with ATP‑MgCl2.Jackson Hole, WY, June 1983.

 5. Federation of American Society of Experimental Biology. NMR spectra and function of Ischemic Isolated Kidney Reperfused with Phosphate Free Buffer and Treated with ATP‑MgCl2. Atlanta, GA, April 1984.

 6. Shock Society. Amelioration of Gentamicin Nephrotoxicity by ATP‑MgCl2 Treatment. Toronto, Canada, June 1984.

 7. New England Vascular Society. Comparison of Results of Aortic Grafting in Occlusive and Aneurysmal Disease. Dixville Notch, New Hampshire, October 1984.

 8. Surgical Forum, American College of Surgeons. Nuclear Magnetic Resonance Study Showing the Reperfusion Injury Following Ischemia and Its Improvement with ATP‑MgCl2.

 9. Association of Academic Surgeons. Amelioration of Gentamicin and Cis‑platinum Nephrotoxicity by ATP‑MgCl2. San Antonio, Texas, November, 1984.

10. Federation of American Society of Experimental Biology. Renal Handling of Exogenous ATP‑MgCl2. Anaheim, California, April 1985.

11. Shock Society. Comparison of adenosine‑MgCl2 and ATP‑MgCl2 effects in the isolated perfused kidney. Baltimore, Maryland, June 1985.

12. Surgical Forum, American College of Surgeons. Alleviation of Cyclosporine‑induced Nephrotoxicity with ATP‑MgCl2 and Verapamil. Chicago, Illinois, October 1985.

13. Society of University Surgeons (Residents' Forum). Effect of Immunosuppression regimens on circulating T‑lymphocyte subsets. Richmond, Virginia, February 1986.

14. Federation of American Society of Experimental Biology. Cyclosporine Toxicity in the Isolated Kidney. St. Louis, Missouri, April 1986.

15. Shock Society. Comparison of Effects of ATP‑MgCl2 and Adenosine MgCl2 on Renal Function Following Ischemia. Scottsdale, Arizona, June 1986.

16. Surgical Forum, American College of Surgeons. Verapamil and ATP‑MgCl2 Prevents Cyclosporine Induced Nephrotoxicity by Improving Mitochondrial and Tissue Ca2+/Mg2+. New Orleans, Louisiana, October 1986.

17. Southern Association for Vascular Surgery. Response of Aortic Endothelial Cells to Mechanical Cyclic Stretching. Scottsdale, Arizona, January 1987.

18. 20th Hugh Lofland Conference on Arterial Wall Metabolism. Effect of Mechanical Stress on Endothelial and Smooth Muscle Cell Biology in Culture. Winston‑Salem, North Carolina. May 1987.

19. North Carolina Chapter of American College of Surgeons. Influence of Perfusate Viscosity and Oncotic Pressure on Renal Function. Myrtle Beach, South Carolina, May 1987.

20. Grand Rounds, Stanford University Medical Center. Management of Acute Renal Failure. Palo Alto, California, November 1986.

21. Grands Rounds, University of North Carolina. Role of Vascular Stress on Cells in Culture. Chapel Hill, North Carolina, January 1987.

22. International Society for Cardiovascular Surgery. Alterations in Endothelial Cell Morphology and Cytoskeletal Proteins During Repetitive Mechanical Stress. Toronto, Canada, June 1987.

23. Shock Society. Effects of Viscosity and Oncotic Pressure on the Function of Isolated Perfused Rat Kidneys. Montreal, Canada, June 1987.

24. New England Vascular Society. Cyclic Stretching of Aortic Smooth Muscle Cells Stimulates Collagen Synthesis. Bretton Woods, New Hampshire, Sept. 1987.

25. Association for Academic Surgery. Response of aortic endothelial cells and smooth muscle cells to pulsatile stretching in culture. Orlando, Florida , November 1987.

26. Association for Academic Surgery. Effect of perfusate viscosity, RBC deformability and drag on the function of an isolated kidney. Orlando, Florida, November 1987.

27. The Second International Congress on Cyclosporine. Cyclosporine toxicity in an isolated perfused kidney. Washington, D.C., November 1987.

28. Society of University Surgeons. Mechanical stretching of cultured endothelial cells: effect on prostacyclin synthetic activity. San Antonio, Texas, February 1988.

29. Shock Society. The effect of RBC deformability and fluid drag on renal function. Fontana, Wisconsin, June, 1988.

30. Gordon Conference. Mechanical stretching of vascular cells. Meriden, New Hampshire, August 1988.

31. NIH Research Initiatives in Vascular Disease (Invited Speaker). Mechanical stress and cell growth. Bethesda, Maryland, March 1989.

32. Federation of American Society of Experimental Biology. Repetitive mechanical stretching of aortic endothelial cells in culture: inhibition of collagen synthesis. New Orleans, La, March 1989.

33. Invited Speaker, University of Michigan. Role of mechanical stress in cell growth. Ann Arbor, MI, June 1989.

34. International Society for Cardiovascular Surgery, Toronto. The role of adenylate cyclase in the transduction of pulsatile stretch signals to endothelial cells in culture. Toronto, Canada, September 1989.

35. New England Society for Vascular Surgery. Salvage of large ischemic soft-tissue and bony defects of the lower extremity with revascularization and "local" flap coverage. Bretton Woods, New Hampshire, September 1989.

36. Surgical Forum, American College of Surgeons. Interleukin-6 production by vascular smooth muscle cells during cyclic stretch: etiology of SMC quiesence *in vivo*? Atlanta, Georgia, October 1989.

37. Association for Academic Surgery. Collagen synthesis is inhibited in aortic endothelial cells subjected to cyclic stretch *in vitro*. Louisville, Kentucky, November 1989.

38. Visiting Professor, University of California, San Francisco. Exercising endothelial cells in culture. San Francisco, CA. February 1990.

39. Society for University Surgeons. Enhanced production of a smooth muscle cell contracting factor by endothelial cells subjected to pulsatile stretch *in vitro*. Los Angeles, CA. February 1990.

40. Federation of American Society of Experimental Biology. Endothelin production by endothelial cells subjected to pulsatile stretch *in vitro*. Washington, D.C. April 1990.

41. Gore Lecture (Invited Speaker). Role of hemodynamics in cell growth. Boston, MA. April, 1990.

42. Gladstone Foundation (Invited Speaker). Modulation of endothelial cell phenotype by cyclic stretch. San Francisco, August, 1990.

43. Visiting Professor, Bay State Medical Center, Springfield, MA. Endothelial cells alterations with external forces. October 1990.

44. NIH Research Initiatives in Vascular Disease (Invited Speaker) Hemodynamic Forces and the Biology of the Endothelium: Signal Transduction Pathways in Endothelial Cells Subjected to Physical Forces *In Vitro*. Bethesda, MD. February 1991.

45. Invited speaker, Workshop on Mechanical Stress Effects on Vascular Cells, Atlanta, Ga. Tissue plasminogen activator production and phosphoinositide activation in cultured human endothelial cells subjected to cyclic strain. April, 1991.

46. Gordon Conference on Atherosclerosis (Invited speaker). Phosphatidylinositol activation of endothelial cells exposed to cyclic strain. Meriden, New Hampshire, June 1991.

47. Invited Speaker, Whitaker Foundation. Mechanical deformation of endothelial cells grown on different biomaterials and surfaces. Snowbird, Utah, Aug. 1991.

48. Invited speaker, World Congress for Microcirculation. Microfilament reorientation in endothelial cells subjected to pulsatile stretch. Louisville, KY. Sept. 1991.

49. NIH Research Initiatives in Vascular Disease (Invited Speaker) Molecular biology and the vascular surgeon: Fundamental concepts and the tools. Bethesda, MD. Feb. 1992.

50. Invited speaker. Fundamentals of surgical research course. Research hypothesis and design, Chicago, Il. July 1992.

51. Guest faculty. Thrombosis, Thromboembolism and Thrombolysis Post-graduate Course. The aortic arch and carotid vessels as sources of stroke, New Haven, August 1992.

52. Visiting Professor, Loyola University Medical Center, Chicago, IL. Mechanisms by of EC coupling to external forces: implications for intimal hyperplasia. Sept. 1992.

53. New England Society for Vascular Surgery. Smooth muscle cell inhibition by 8-methoxypsoralen phototherapy. Dixville Notch, New Hampshire Sept. 1992.

54. American College of Surgeons, Surgical Forum (Vascular Surgery). Are G-proteins mechanosensors for endothelial cells? New Orleans, LA, Oct 1992.

55. Grand Rounds Speaker, University of Connecticut School of Medicine. Mechanisms by which endothelium senses changes in hemodynamics: Implications for the pathogenesis of atherosclerosis and intimal hyperplasia. Hartford, CT. Oct. 1992.

56. International Society for Applied Cardiovascular Biology (Invited Speaker). Signal transduction mechanisms of endothelial cells subjected to cyclic strain. St. Louis, MO. November 1992.

57. Invited Speaker, American Heart Association, CT Affiliate. How does the endothelium sense the changing circulation?, Meriden, CT December 1992

58. Invited Faculty, Angioscopy Course sponsored by Harvard Medical School. Molecular Biology for Vascular Surgeons. Boston, MA, December 1992.

59. Visiting Professor, Framingham Union MetroWest Medical Center. Mechanisms by which the endothelium senses changes in hemodynamics. Framingham, MA, February 1993.

60. Invited Speaker Controversies in Surgery 1993: Basic Science for the General Surgeon. Farmington, CT. March 1993.

61. Visiting Professor, University of Pittsburgh. How does the endothelium sense changes in hemodynamics? Pittsburg, PA. March 1993.

62. Young Investigator Award (Invited Speaker) Japan Surgical Society. Nitric Oxide Synthase Induction in Endothelial Cells. Sendai, JAPAN, March 1993.

63. Visiting Professor, Chiba University Medical School. From Bench to Bedside- How EC Sense Changes in Hemodynamics., Chiba, JAPAN, March 1993.

64. Invited Symposium Speaker, Experimental Biology Meeting. Signal Transduction Mechanisms in Vascular Cells Exposed to Strain. New Orleans, LA, April 1993.

65. Invited Speaker, Vascular Forum. Atherogenesis. New Haven, CT. June 1993.

66. Guest faculty. Thrombosis, Thromboembolism and Thrombolysis Post-graduate Course. The aortic arch and carotid vessels as sources of stroke, New Haven, August 1993.

67. Invited Speaker. International Vascular Conference. Effect of mechanical forces on vascular cells. Beijing, CHINA. October 1993.

68. Visiting Professor. Osaka University Medical College. Mechano-transduction systems in endothelial cells. Osaka, JAPAN, October 1993.

69. Invited Speaker, American Society for Cell Biology: Symposium on Heterogeneity of Vascular Cell Responses., New Orleans, LA. December 1993.

70. NIH Research Initiatives in Vascular Disease (Invited Speaker) Research Models in Vascular Disease: Development of Pulsatile Pressure and Cyclic Strain Models. Bethesda, MD. February 1994.

71. Invited Speaker. American Physiological Society Conference on *Mechanotransduction and the regulation of Cell Growth and Differentiation*. Biochemical and cytoskeletal signaling with cyclic strain. Sarasota, FL. October 1994.

72. Invited Speaker. Department of Physiology, University of Connecticut. Gene regulation by mechanical forces. Farmington, CT. February 1995.

73.Young Investigator Award (Invited Speaker) Japan Surgical Society. Effect of pulsatile pressure on endothelial cell proliferation Nagoya, JAPAN, April 1995.

74.Invited Speaker. Department of Physiology, Nagoya University School of Medicine. Insights into the coupling of mechanical forces and vascular cell response. Nagoya, JAPAN, April 1995.

75. International Society for Applied Cardiovascular Biology (Invited Speaker). Mechanical forces and gene regulation. Manchester, England March 1996.

76. Visiting Lecturer. Rayne Institute Center for Cardiopulmonary Diseases. Transcriptional regulation by cyclic strain. London, U.K. March 1996.

77. Invited Speaker. William Harvey Institute. Nitric oxide syntahase gene regulation by cyclic strain. London, U.K. March 1996.

78. Invited Speaker Australasian Society for Vascular Surgery. May 4-11th, 1996

79. (Invited Speaker) Japan Society for Vascular Surgery. Gene therapy for vascular diseases-Does it make sense or anti-sense? Asahikawa, JAPAN, June 1996.

80. Invited Speaker Gordon Conference on Bioengineering and Orthopedic Sciences. Focal Adhesion proteins as mechanotransducers. Andover, New Hampshire, July 1996

81. Invited Professor. Beth Israel Deaconess Dept. of Surgery. Future therapy for atherosclerosis. Boston, MA Feb. 1997.

82. Invited Speaker. NIH Research Initiatives. Wall stress regulation of endothelial cells. Bethesda, MD, Feb. 1997.

83. Moderator for Educational panel, Association of Program Directors in Surgery, San Diego, CA, April 1997.

84. Visiting Professor. University of Nebraska Medical Center. Atherosclerosis- Was Osler right?. Omaha, NE, April 1997.

85. Invited Speaker. International College of Angiology. Vascular disease and biology, Istanbul, Turkey, June 1997.

86. Invited Speaker. Japanese Society for Abdominal Emergency Medicine. Mesenteric Vascular Emergencies: Thoughts for the new millenium. Urayasu, JAPAN, September 1997.

87. Invited Speaker. International Atherosclerosis Society. Bordeaux, Paris, FRANCE. October 1997.

88. Distinguished Visiting Scientist. Department of Physiology and Cell Biology, Albany Medical College, Albany, New York. October 1997.

89. Invited Speaker. Philippine Stroke Society. Baguio City, PHILIPPINES, November 1997.

90. Visiting Professor, Dartmouth Medical Center, Atherosclerosis-From molecules to man Hanover, N.H. November 1997.

91. Visiting Professor, New York Hospital Cornell University Medical Center, Atherosclerosis-, New York January 1998.

92. Invited Speaker, New England Surgical Society Spring Meeting, New Haven, CT, March 1998.

93. Invited Speaker, Asian Vascular Society, Gene Therapy- Hope or Hype?, Beijing China, May 1998.

94. Invited Speaker, International Society for Heart Research, Regulation of NOS expression in response to mechanical load in the vascular system., Rhodes, Greece, May 1998.

95. Invited Speaker, International Union of Angiology, Is the Geometry of a Vascular Anastamosis Important?, Tokyo, Japan, September 1998.

96. Invited Speaker, American College of Surgeons, Vascular Surgery Post-Graduate Course, Hemodynamic and physiologic effects of vein-cuffs on anastamoses, Orlando, FL, October 1998.

97. Invited Speaker, Vascular Surgery Symposium, Biologic basis for vein-cuffs, New York, N.Y., November 1998.

98. Visiting Professor, Maimonides Medical Center, Is there a cure for atherosclerosis?, Brooklyn, N.Y., December 1998.

99. Invited Speaker, NIH Research Initiatives. Mechano-signaling in vascular cells. Bethesda, MD, March 1999.

100. Invited Speaker, Ist Tri-Institutional M.D./Ph.D. Alumini Day. Is clinican-surgeon an oxymoron?. New York, N.Y. March 1999.

101. Visiting Professor Dept. of Surgery, Univ. of Tennessee . Low Molecular Weight Heparins:Current use and indications. Knoxville, TN April 1999.

102. Keynote Lecturer, Student Research Day. UTMCK Progress in the treatment of Atherosclerosis. Knoxville, TN April 1999.

103. Invited Symposium Speaker. Biomedical Engineering Society. Sensing and coupling pathways in endothelial cells, Washington, D.C. April 1999.

104. Invited Guest, Toronto and Vicinity Vascular Society. Multidisciplinary approach to diabetic limb salvage. Toronto, April 1999.

105. Invited Professor, Toronto General Hospital. Mechanotransduction in vascular cells. Toronto, April 1999.

106. Invited Plenary Speaker, Japan Society for Vascular Surgery. Can surgeons control the destiny of a vascular graft. Tokyo, Japan, May 1999.

107. Invited Symposium Speaker, Japan Society for Vascular Surgery. Low molecular weight heparins: the drug for the new millenium. Tokyo, Japan, May 1999.

108. Visiting Professor, Albany Medical College. Rationale for treatment of DVT. Albany, N.Y. June 1999.

109. Invited Speaker, Orange Medical County Society Meeting. Ulcer classification and treatment. Newburgh, N.Y. June 1999.

110. Invited Speaker, International College of Angiology. Surgery of the cell-hope or hype for angiology. Sapporro, Japan, July 1999.

111. Visiting Professor, University of Massachusetts. Wound Healing. Worcester, MA August 1999.

112. Invited Speaker. New York Vascular Symposium. Anastomotic configurations. Tarrytown, NY Sept. 1999.

113. Visiting Professor, New York Medical College. DVT Prevention. Valhalla, NY October 1999.

114. Visiting Profesor, Robert Wood Johnson-UMDNJ. Progress in Atherosclerosis. New Brunswick, NJ. November 1999.

115.Invited Speaker, Gulf Coast Vascular Society. Multi-disciplinary management of the diabetic foot. New Orleans, LA, November 1999

116. Invited Speaker, Vascular Surgery Symposium, Low molecular weight heparins: Indication for their use., New York, N.Y., November 1999.

117. Invited Speaker. Icelandic Surgical Society, “Is Atherosclerosis a Curable Disease”, Reykjavik, Iceland, Jan 2000.

118. Invited Speaker. Icelandic Surgical Society, “Aggressive management of the diabetic foot”, Reykjavik, Iceland, Jan 2000.

119. Invited Speaker, Connecticut Podiatric Medical Association, “A cure for tired feet?”, Meriden, CT, January 2000.

120. Invited Speaker, Biomedical Engineering Society Symposium, “Integrins as mechanotransducers, San Diego, April 2000.

121. Invited Professor, Northwestern University Engineering School, “Cell signaling and hemo-dynamic forces”, Evanston, IL, May 2000.

122. Visiting Professor and Research Day Speaker, University of Iowa, “Atherosclerosis localization by hemodynamic forces”, Iowa City, Iowa, May 2000.

123. Guest Lecturer, Japan Vascular Surgery Society, “Treatment of Atherosclerosis: Hope for the New Millenium”, Tokyo, Japan, May 2000.

124. Invited Speaker, European Society for Surgical Research “Activation of FAK and c-src in vascular endothelial cells by cyclic strain”, Malmo, Sweden, May 2000.

125. Invited Visiting Professor, University of Aarhus “Hemodynamic Forces and Vascular Biology”, Aarhus, Denmark May 2000.

126. Visiting Professor, Medical College of Virginia, “DxRxDVT”, Richmond, Virginia June 2000.

127. Invited Speaker, Connecticut Podiatric Association Meeting, “Claudication-diagnosis and treatment”, Westbrook, CT July 2000.

128. Millenium Conference Speaker, European Society for Vascular Surgery, “Cure for Atherosclerosis-Hope of hype?, Royal Geographic Society, London, UK, September 2000.

129. Guest Speaker, Foot and Ankle Society, “Diagnosis and management of claudication”, Scranton, Pennsylvania, November 2000.

130. Invited Professor, University of North Carolina, “Atherosclerosis”, Chapel Hill, NC, November 2000.

131. Invited Professor, Weill School of Medicine, “Recognition and Prevention of DVT”, New York, NY November 2000.

132. Invited Professor, University of Pennsylvania School of Engineering, “Physical Forces and Signaling”, Philadelphia, PA January 2001.

133. Grand Rounds Speaker, Westchester Medical, “Atherosclerosis Update”, Valhalla, NY, February 2001.

134.Invited Speaker, NIH Research Initiatives, Lifeline Foundation, “Signaling in Vascular Cells”, Bethesda, MD March 2001.

135. Invited Speaker, Royal College of Surgeons, “Can vascular surgery encompass basic science”, New Haven, CT March 2001.

136. Invited Speaker, Royal College of Surgeons, “Diabetic foot ulcers”, Royal Pavillion, Barbados, March 2001.

137. Invited Faculty, Westchester Vascular Symposium, “LMWH” and “Diabetic Feet”, Valhalla, NY, March 2001.

138. Invited Faculty, Society for Clinical Vascular Surgery, Hemodialysis Acess Symposium, “Strategies for preventing intimal hyperplasia”, Boca Raton, FL. April 2001.

139. Featured Speaker, VA FeAST Study Meeting, “Hemodynamic Forces and the localization of Atherosclerosis”, Chicago, IL. April 2001.

140. Invited Faculty, American College of Surgeons Postgraduate Course, “Neurologic deficits after carotid surgery”, Toronto, CA April 2001.

141. Visiting Professor, University of Medicine and Dentistry New Jersey, “Atherosclerosis”, Newark, NJ May 2001.

142. Invited Speaker, Chinese Society for Vascular Surgery, “Genetic insights on Atherosclerosis”, Shanghai, China, May 2001.

143. Visiting Professor, Shanghai University, XinHua Hospital, “Foot Ulcers”, Shanghai, China, May 2001.

144. Visiting Professor, University of Hong Kong, Queen Mary Hospital, “Localization of Atherosclerosis”, Hong Kong, May 2001.

145. Invited Speaker, Scandinavian Society for Vascular Surgery, “Update on Atherosclerosis”, “Vascular Trauma”, Reykjavik, Iceland, June 2001.

146. Invited Speaker, Korean Society for Vascular Surgery, “Update on Gene Therapy for Vascular Disease”, Cheju, Korea, November 2001.

147. Invited faculty, Frontiers in Vascular Surgery Symposium, “ Strategies for minimizing intimal hyperplasia”, New York, NY November 2001.

148. Guest Speaker, International Society for Applied Cardiovascular Biology, “Cyclic Strain Mechanotransduction”, St. Gallen, Switzerland, March 2002.

149. Guest Speaker, European Cardiovascular Surgery Society, “Surgery of the cell-the new frontier for surgeons”, Zurs, Austria, March 2002.

150. Visiting Professor, University of Florida, “Gene therapy for cardiovascular disease”, Gainesville, FL March 2002.

151. Invited Faculty, International Union of Angiology, “Hemodynamic Regulation of the Blood Vessel Wall”, New York, NY, April 2002

152. Guest Speaker, NY Chapter of American College of Surgeons, “ Management of deep venous thrombosis”, Coopertown, NY, April 2002.

152. Visiting Professor, Albany Medical Center, “Intimal Hyperplasia”, Albany, NY, April 2002.

153. Visiting Professor, Englewood Hospital, “Evaluation and Management of DVT”, Englewood, NJ, May 2002.

154. Invited faculty, Japanese Society for Vascular Surgery, “Surgical management of acute limb ischemia”, Okinawa, Japan, May 2002.

155. Visiting Professor, University of Arkansas Medical Center, “Strategies to reduce intimal hyperplasia”, Little Rock, AK, May 2002.

156. Grand Rounds, Stamford Medical Center, “Out-patient treatment of DVT, Stamford, CT, July 2002.

157. Salzman Visitng Lecture, Beth Israel Deaconess Medical Center, “Can surgeons control the fate of a vascular graft”, Boston, MA, October 2002.

158. Invited faculty, Vascular Endovascular Issues Techniques Horizons Symposium, “ Current concepts in foot ulcers”, New York, NY November 2002.

159. Guest Speaker, Philippine College of Surgeons, “Endovascular management of vascular trauma”, Manila, Philippines, December 2002.

160. Invited faculty, Northwestern Vascular Symposium, “Contemporary management foot ulcers”, Chicago, IL December 2002.

161. Invited faculty, Hong Kong Surgical Forum, “Is there a cure for Atherosclerosis”, Hong Kong,, PRC January 2003.

162. Grand Rounds, North Shore University Hospital, “Contemporary evaluation and management of DVT”, Manhasset, NY April 2003.

163. Guest Speaker, 1st Annual Society for Caribbean Surgeons. “Wine as a Medicine”, Port-of-Spain, Trinidad, June 2003

164. Invited Speaker, UEMS Symposium, European Society for Vascular Surgery, “The need for basic science plus non-surgical training”, Dublin, Ireland, September 2003

165. Invited Speaker, Mnnnesotta Surgical Society, “Red wine and its cardioprotective effect”, Mnneapolis, MN, October 2003.

166. Visiting Professor, University of Minnesotta, “Future directions for surgical innovations in vascular surgery”, October 2003.

167. Distinguished Professor, University of South Alabama, “Regulation of vascular wall biology by hemodynamic forces”, Mobile, AL, November 2003

168. Shumacker Distinguished Lecture, Uniformed Services United Health System, “Future innovations for blood vessel reconstruction”, Bethesda, MD December 2003.

169. Invited Faculty, Controversies and Updates in Endovascular and Cardiac Surgery, “Multidisciplinary approach can save more diabetic feet-Yale Experience”, Paris, France, January 2004

170. Invited Speaker, Japan Society for Cardiovascular Surgery, “Hemodynamic forces and coronary artery disease: The molecular basis.” Fukuoka, Japan, February 2004

171. Invited Speaker, Wound Healing and Diabetic Foot Symposium, “Improving outcomes for diabetic feet”, University of West Indies, Barbados, March 2004

172. Visiting Professor, University of California Torrance, “Hemodynanmic forces and atherogenesis: the molecular basis. Long Beach, CA, April 2004.

173. Invited Speaker, Kansas City Surgical Society, “Management of the diabetic foot”, Kansas, MO, April 2004.

174. Invited Speaker, Japan Society for Vascular Surgery, “Clinical and biologic Relevance of a Cuffed Prosthetic Graft”, Tokyo, Japan, May 2004.

175. Grand Rounds, Marthas Vineyard Hospital, “Management of Diabetic Feet”, Oaks Bluff, MA, August 2004.

176. Invited Faculty, Australia New Zealand Society for Vascular Surgery “Artificial Blood Vessels-The Holy Grail”, Rotorua, New Zealand, September 2004.

177. Invited Speaker, Royal Society of Medicine, “Innovative strategies for preservation of diabetic limbs”, London, UK, October 2004.

178. Invited Speaker, South Florida Vascular Surgery Society, “Aggressive diabetic limb salvage”, Key largo, FL, October 2004.

179. Invited Faculty, Pan-american Vascular Surgery Conference, “Single stage management of diabetic foot ulcers”, Rio de Janeiro, Brazil, November 2004.

180. Jack Orr Memorial Lecture, “Tissue engineered graft”, Danbury Hospital, Danbury, CT, December 2004.

181. Invited Speaker, Diabetes: Bringing basic science into clinical practice, “Diabetes as a risk factor for vascular surgery”, Stockholm, Sweden, February 2005.

182. Invited Speaker, Wound Healing and Diabetic Foot Symposium, “Molecular basis of wound healing”, University of West Indies, Barbados, March 2005

183. Invited Speaker, Royal College of Surgeons Edinburgh, “ Management of diabetic foot ulcers”, Edinburgh, Scotland, UK, June 2005.

184.. Invited Speaker, Royal Society of Medicine, “Aggressive revascularization options for limb salvage”, London, UK, October 2005.

185. Invited Speaker, Finnish Angiology Society, “The fear of atherothrombosis in peripheral vascular disease”, St. Andrew’s, Scotland, UK October 2005.

186. Invited Faculty, Superbones, Superskin, “The basic science behind the wound vac therapy”, Paradise Island, Bahamas, January 2006

187. Keynote Speaker, University of Pittsburgh Center for Vascular Remodeling and Regeneration, “Hemodynamic Forces and Vascular Biology”, Pittsburgh, PA May 2006

188. Invited Speaker, 16th Mediterranean League of Angiolgy and Vascular Surgery, “Atherothrombosis and Peripheral Vascular Disease” Crete, Greece, June 2006

189. State of the art lecture, Surgical Biology Club III, “Hemodynamic forces and atherogenesis”, Chicago, IL, Oct 2006.

190. Invited Faculty, Superbones, Superskin, “Assessment of perfusion to the feet”, Paradise Island, Bahamas, January 2007.

191. Visiting Professor, Baystate Medical Center, “Artificial Blood Vessels”, Springfield, MA November 2007

**Professional Service**

 **Peer Review Groups/Grant Study Sections:**

1993-1997 Member Surgery and Bioengineering Study Section, National Institutes of Health

1991-1995 Member Surgery Study Section, Veterans Administration

1994-1995 Chairman Surgery Study Section, Veterans Administration

1990-1992 Ad Hoc Review Committee - National Institute of Health Surgery and Bioengineering Study Section

1990 Special Reviewer - Center for Disease Control Injury Research Study Section

1991 Reviewer- NIH Special Study Section-B2

**Journal Service:**

Editor/Associate Editor2005-present Associate Editor, *Annals of Vascular Surgery*

2005-present Editorial Board, *Journal of Vascular Surgery*

2005-present Editorial Board, *Journal of American College of Surgeons*

1999-present Senior Editor, *Angiology*

1999-present Editorial Board, *Cell Transplantation*

1992-2000 Editorial Board, *Journal of Surgical Research*

Reviewer
2002-present Reviewer for American Journal of Physiology

**Professional Service for Professional Organizations:**

President Elect, New England Society for Vascular Surgery (2010-2012)

Recorder, New England Society for Vascular Surgery (2005-2008)

Secretary, Association for Program Directors in Vascular Surgery (2003-2008)

Chairman, Research Council, Society for Vascular Surgery (2003-2005)

Board of Directors, Society for Vascular Surgery (2003-2005)

Board of Directors, American Vascular Association Foundation

Executive Council- New England Society for Vascular Surgery (2002-2005)

Program Committee- Association of Academic Surgeons (1990-92)

Program Committee- New England Society for Vascular Surgery (1992-1995)

Program Committee- Society of University Surgeons (1993-1995)

Program Committee- Peripheral Vascular Surgery Society (1993-1996)

Arterial Wall Biology Committee- Association of Program Directors in General

Vascular Surgery (1994)

Committee on Fundamental Problems in Surgery-American College of Surgeons

(1994-2002)

Advisory Council for Vascular Surgery-American College of Surgeons (1994-2002)

## Program Chairman, CT Chapter, American College of Surgeons and Connecticut Society

## of American Board of Surgery (1996-1998)

## President Elect, Connecticut Society of American Board of Surgery (1997)

## Membership Committee- New England Society for Vascular Surgery (1998-2003)

## President, Connecticut Chapter, American College of Surgeons (1999)

## Education Committee- Association of Program Directors in General Vascular Surgery

##  (1999-2001)

## Secretary, International College of Angiology (1999-2001)

## Executive Council, Association for Program Directors in Vascular Surgery (2000-)

**Yale University Service**

***Medical School Committees***

Dean's Space Committee 1993-97

Scholars Awards Committee 1993-97

 Physicians Assistant Steering Committee 1997-

***Departmental Committees***

2015- 2017 President Yale Surgical Society

2004-present Member, Appointment & Promotions Committee, Dept. of Surgery, School of Medicine

### *Hospital Boards & Committees*

Yale‑New Haven Hospital:

Infection Control Commitee 1987‑92

Clinical Research Center Committee 1993-95

 Credentials Committee 2003-

 Graduate Medical Education

 Vice Chairman

West Haven VA Medical Center:

CPR Committee 1987‑92

Nutrition Commitee 1987‑92

Blood bank Commitee 1987‑90

Medical Student Clerkship Liason 1987‑93

**Bibliography:**

**Peer-Reviewed Original Research**

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 2. **Sumpio BE**, Chaudry IH, Baue AE. Enhanced functional recovery of isolated perfused rat kidneys subjected to warm ischemia after treatment with ATP‑MgCl2. Circ Shock 10(3):278, 1983.

 3. **Sumpio BE**, Chaudry IH, Clemens MG, Baue AE. Amelioration of gentamicin nephrotoxicity by ATP‑MgCl2 treatment. Circ Shock 31:68‑69, 1984.

 4. **Sumpio BE**, Ernstoff M, Kirkwood J. Urinary excretion of interferon, beta‑2 microglobulin and albumin during interferon therapy. Cancer Res 44(8):3599‑3607, 1984.

 5. **Sumpio BE**, Camargo MG, Maack T. Kinetics of renal catabolism of absorbed proteins: influence of lysosomal pH. Contributions to Nephrology 42:795‑821, 1984.

 6. **Sumpio BE**, Chaudry IH, Baue AE. Nuclear magnetic resonance study showing the reperfusion injury following ischemia and its improvement with ATP‑MgCl2 treatment. Surg Forum 35:17‑19, 1984.

 7. **Sumpio BE**, Chaudry IH, Clemens MG, Baue AE. Accelerated recovery of isolated rat kidney with ATP‑MgCl2 after warm ischemia. Am J Physiol 247:R1047‑R1053, 1984.

 8. Camargo MJF, **Sumpio BE**, Maack T. Renal hydrolysis of absorbed protein: influence of load and lysosomal pH. Am J Physiol 247:F656‑664, 1984.

 9. **Sumpio BE**, Chaudry IH, Baue AE. ATP‑MgCl2 ameliorates the reperfusion injury following ischemia as determined by 31P‑NMR. Arch Surg 120(2):165‑169, 1985.

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13. **Sumpio BE**, Hayslett JP. Renal handling of proteins during health and disease states. Quart J Med, New Series 57, 222:611‑635, 1985.

14. **Sumpio BE**, Chaudry IH, Baue AE. Alleviation of the cyclosporine induced nephrotoxicity with ATP‑MgCl2 and Verapamil. Surg Forum 36:336‑338, 1985.

15. **Sumpio BE**, Hull MJ, Baue AE, Clemens MG, Chaudry IH. Comparison of effects of ATP‑MgCl2 and Adenosine‑MgCl2 on renal function following ischemia. Circ Shock 18:375‑376, 1986.

16. **Sumpio BE**, Hull MJ, Baue AE, Chaudry IH. Effects of ATP‑MgCl2 and adenosine‑MgCl2 administration on intracellular ATP levels in the kidney. Biochem Biophys Acta 862(2):303‑308, 1986.

17. **Sumpio BE**, Dwyer JM, Flye MW. T‑lymphocyte subsets in renal allograft recipients undergoing different immunosuppression protocols. Curr Surg 43(6):502‑503, 1986.

18. **Sumpio BE**, Hull MJ, Chaudry IH, Stephan RN, Baue AE. Verapamil and ATP‑MgCl2 prevents cyclosporine‑induced nephrotoxicity by improving mitochondrial and tissue Ca2+/Mg2+ ratios. Surg Forum 37:349‑351, 1986.

19. Morse SS, Strauss EB, **Sumpio BE**. Apparent arterial occlusion due pneumatic antishock garment: pitfall in trauma angiography. AJR 147:391‑392, 1986.

20. **Sumpio BE**, Ballantyne GH, Zdon M, Modlin IM. Acute appendicitis in the elderly: an unusual presentation of colon cancer. Dis Colon Rectum 29:668‑670, 1986.

21. **Sumpio BE**, Bhatt S, May CJ. Lumbar actinomycosis: an unusual presentation of primary actinomycotic empyema. Infections in Surgery 6(3)148‑155, 1987.

22. **Sumpio BE**, Baue AE, Chaudry IH. Treatment with Verapamil and ATP‑MgCl2 reduces cyclosporine nephrotoxicity. Surgery 101:315‑322, 1987.

23. **Sumpio BE**, Hull MJ, Baue AE, Chaudry IH. Effect of ATP‑MgCl2 and adenosine‑MgCl2 on function of ischemic kidneys. Am J Physiol 252:R388‑R393, 1987.

24. **Sumpio BE**, Dwyer JM, Flye MW. T‑lymphocyte subsets in cyclosporine ‑ and azathiaprine ‑ treated renal allograft recipients. Annals of Surgery 205(1):49‑53, 1987.

25. **Sumpio BE**, Jennings T, Marino M, Sullivan P. Adenoid cystic carcinoma of the breast: data from the Connecticut Tumor Registry and a Review of the Literature. Annals of Surgery 205(3):295‑301, 1987.

26. **Sumpio BE**, Upchurch GR, Kaiser D, Adkinson JT, Palladino GW, Johnson G. Effect of viscosity and oncotic pressure on the function of isolated perfused rat kidneys. Circ Shock 21:360, 1987.

27. **Sumpio BE**, Gusberg RJ. Neurologic deficit following blunt abdominal aortic trauma. J Vasc Surg 6:412‑414,1987.

28. **Sumpio BE**, Baue AE, Chaudry IH. Alleviation of cyclosporine and nephrotoxicity with Verapamil and ATP‑MgCl2: mitochondrial respiratory and calcium studies. Annals of Surgery 206: 655‑660, 1987.

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in aortic endothelial cells induced by mechanical strain. Am. J. Physiol. 271: C635-C649, 1996.

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bovine pulmonary endothelial cell proliferation. Surg. Forum. 82: 353-355, 1996.

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a Calcium Influx-Dependent Mechanism. Endocrinology (In Press).

112. Mills I, Cohen CR, Kamal K, Li G, Shin T, Du W, **Sumpio BE**. Strain Activation of Bovine Aortic Smooth Muscle Cell Proliferation and Alignment: Study of Strain Dependency and the Role of Protein Kinase A and C Signaling Pathways. J. Cell. Physiol. 170: 228-234, 1997.

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