

**CURRICULUM VITAE**  
**Brian Lawrence Cmolik, M.D., FACS**

Business: Chief, Surgical Service, Louis Stokes Cleveland Veterans Affairs Medical Center  
Surgical Service 112W  
10701 East Blvd.  
Cleveland, Ohio 44106      email: [brian.cmolik@va.gov](mailto:brian.cmolik@va.gov)

**Education:**

**Undergraduate:**

Xavier University, Cincinnati, Ohio  
August 1975-May 1979  
Bachelor of Science, cum Laude  
Major: Chemistry  
University Scholars Honors Program

**Medical Education:**

Northeastern Ohio Medical University, Rootstown, Ohio  
August 1981-May 1985  
Doctor of Medicine

**Postgraduate Training:**

Youngstown Hospital Association Department of Pathology  
Summer Fellowship in Anatomic Pathology  
May 1982-August 1983  
Ludwig Deppish, M.D. supervisor

Allegheny Singer Research Institute  
Fellowship in Thoracic Organ Transplantation and Thoracic Research  
July 1991-June 1992  
Richard E. Clark, M.D., James A Magovern, M.D. supervisors

**Residency Training:**

**Allegheny General Hospital, The Medical College of Pennsylvania**

Resident in General Surgery  
July 1985-June 1989

Administrative Chief Resident in General Surgery  
July 1989-June 1990

Resident in Thoracic Surgery  
July 1990-June 1991

Administrative Chief Resident in Thoracic Surgery  
July 1992-June 1993

**Medical Licensure:**

Commonwealth of Pennsylvania (MD037530E) inactive

State of Ohio (35-06-5113) 1993-present

**Certifications:**

National Board of Medical Examiners (1986)  
Certification Number: 306977

American Board of Surgery (1991)  
Number: 36513

American Board of Thoracic Surgery (1995)  
Number: 5621

Recertified 2005 Certificate Number 5621

Recertified 2014 Certificate Number 5621

**Academic Appointments:**

Assistant Professor of surgery  
Case Western Reserve University School of Medicine 1993--2015

Associate Professor of Surgery  
Case Western Reserve University School of Medicine 2015-present

**Employment:**

**Standard Oil of Ohio Inc., Warrensville Heights, Ohio**

Chemist Assistant-Geochemical Exploration Research  
May-August 1977, May-August 1978  
Malcolm Wood B.S., M.S. supervisor

Chemist 1, Polyolefin Catalyst Research  
May 1978-August 1981  
Kenneth Benton, Ph.D. supervisor

Chemist 1, microbiological oilfield modeling research  
May 1982-Sept. 1982  
Michael Griffith PhD. Supervisor

**University Cardiothoracic Surgical Group Inc., Cleveland, Ohio**

July 1993-December 1999  
Cardiothoracic Surgeon

**University Cardiac and Thoracic Surgical Group, Inc., Cleveland, Ohio**

January 2000-November 2006  
Cardiothoracic Surgeon

**Administrative Appointments:**

Medical Director of Cardiac Surgical Services,  
St John Westshore Hospital, Westlake, Ohio 2003-06

Chief, Section of Cardiothoracic Surgery  
Louis Stokes Veteran's Affairs Medical Center 2006-2013

Associate Chief of Surgery  
Louis Stokes Veterans Affairs Medical Center 2009-2012

Acting Chief of Surgery  
Louis Stokes VAMC, Cleveland, OH April 2012- June 2013

Chief, Surgical Service  
Louis Stokes VAMS, Cleveland, OH, June 2013-present

**Research/Funding:**

Ohio Board of Regents Research Initiation Grant:  
Skeletal Muscle Cardiac Assist  
2/15/95-1/31/96  
TDC: \$7,700

American Heart Association Northeastern Ohio Affiliate Grant-in Aid:  
“Peristaltic Aortomyoplasty for Cardiac Assist”  
7/1/95-6/31/97  
TDC: \$59,904

American Heart Association Northeastern Ohio Affiliate:  
Summer Medical Student Fellowship  
Aleksandr L. Rovner, 6/1/95-8/15/95  
Optimizing Muscle Stimulation for Aortomyoplasty

The Whitaker Foundation (co-Investigator)  
An Advanced Multipoint Stimulator for Cardiomyoplasty  
3/1/97-6/30/98  
TDC: \$179,604

Department of Veterans Affairs MERIT Review Grant  
Safety and Efficacy of Aortomyoplasty for Long Term Counterpulsation  
4/1/98-3/31/01  
\$206,900

Genzyme Corporation (primary investigator at University Hospitals of Cleveland)  
A Phase I, Double –blind, Placebo Controlled, Escalating Dose, Multi-center  
Study of Ad2/Hypoxia Inducible Factor (HIF)-1 $\alpha$ /VP16 Gene Transfer  
Administered by Intramyocardial Injection During Coronary Artery Bypass  
Grafting (CABG) in Patients with Areas of Viable and Underperfused  
Myocardium not Amenable to Bypass Grafting or Percutaneous Intervention. Per  
patient charges 2003-05

Department of Veterans Affairs ROOBY TRAIL, VA Cooperative Study #517  
“Outcomes Following Myocardial Revascularization with and without  
Cardiopulmonary Bypass” (co-investigator Cleveland VAMC) 2000-05

(PRIMO-CABG II) A multicenter, Randomized, Double-Blind, Parallel-Group,  
Placebo-Controlled Study of 2mg/kg Bolus Plus 24-hour 0.05 mg/kg/hr. Infusion  
of Pexelizumab in Patients Undergoing Coronary Artery Bypass Grafting with  
Cardiopulmonary Bypass (co-investigator University Hospitals of Cleveland)  
sponsor: Proctor and Gamble Inc. 1998-2003

(STITCH TRIAL) Surgical Treatment for Ischemic Heart Failure (co-investigator  
University Hospitals of Cleveland) sponsor: The National Heart, Lung and Blood  
Institute 1999-2004

A Phase 2 Randomized, Double-Blind, Placebo Controlled Study of the Safety and Efficacy of Human Recombinant Soluble Complement Receptor Type I (TP10) in Adult Women Undergoing Coronary Artery Bypass Surgery. (Co- Investigator at University Hospitals of Cleveland) Sponsor: Avant Inc. 2002-2006

Clinical Trial of On-X Valve Using Low Dose Anticoagulation, (Principal Investigator University Hospitals of Cleveland), sponsor: Medical Carbon Research Institute (pre-patient charges) 2008-2012

Ex-vivo characterization of a Micro Fabricated Artificial Lung. VA Merit Review, Rehabilitation Research and Development 2011-2013 (co-investigator)

Towards portable microchannel artificial lungs for veteran rehabilitation. VA merit Review, Rehabilitation Research and Development. (Co-investigator) 2015-17, \$824977 (estimate)

International Study of Comparative Health Effectiveness with Medical and Invasive Approaches (ISCHEMIA) Trial, Site investigator (surgical) Louis Stokes VAMC Cleveland, OH, Jan 2013-present

VACARDS CSP#557 “VA Coronary Artery Revascularization in Diabetes Study” Primary Investigator, Louis Stokes Cleveland VAMC (Site Primary Investigator) 2007-2010

CSP#588 Randomized Endo-Vein Graft Prospective-REGROUP TRIAL, Site Primary Investigator 2012-present

**Hospital Appointments:**

University Hospitals of Cleveland 1993-2006  
11100 Euclid Ave.  
Cleveland, Ohio 44106 Active Staff

Veterans Affairs Medical Center, Wade Park 1993-present  
Cleveland, Ohio, Active Staff

Metro health Medical Center 1993-98  
Cleveland, Ohio, Active Staff

Southwest General Health Center 1998-2006  
Middleburgh Heights, Ohio, Active Staff

Mt. Sinai Hospital 1996-closing  
Cleveland, Ohio, Provisional Active Staff

St. John Westshore Hospital 1999-2006  
Westlake, Ohio Active Staff

Community Health Partners 2003-2006  
Lorain, Ohio Courtesy Staff

**Service:**

Graduate Medical Education Committee 1989-90  
Medical College of Pennsylvania, Allegheny Campus

Pharmacy and Therapeutics Committee, 1991-92  
Allegheny General Hospital, Pittsburgh, Pa

Joint Clinical Care Committee, 1992-93  
Allegheny General Hospital, Pittsburgh, Pa.

Department of Surgery Review and Promotions Committee 1993-1996  
Case Western Reserve University, Cleveland, OH

Medical Records Committee 1994-97  
Louis Stokes VAMC

Institutional Review Board for Human Investigation 1996-99  
University Hospitals of Cleveland, Cleveland, OH

Consultant, "Mechanical Organs-Artificial Hearts" 1995-96 Great Lakes Museum  
of Science, Environment and Technology, Cleveland, OH

Co-Director, Adult ECMO Program, 1998-2006 University Hospitals of  
Cleveland, OH

Institutional Review Board, 2000-06, Southwest General Hospital,  
Middleburgh Heights, OH

Critical Care Committee 2003-06  
St John Westshore Hospital, Westlake, OH

21<sup>st</sup> Century Cardiac Surgical Society Representative to STS/AATS Corporate  
Roundtable, 2002-04

Delegate to Ohio State Medical Association from 5<sup>th</sup> District, 2000-03

Cancer Committee  
Southwest General Hospital, Middleburg Hts. OH 2000-06

Board of Directors Northeastern Ohio Universities Medical University  
Alumni Association 2003-present

Ad-hoc committee of the Society of Thoracic Surgeons RUC. Chicago IL, July  
2005

Director Thoracic Surgery Residency Program, 2005-06 University Hospitals of  
Cleveland, Case Western Reserve University

Chairman of Cardiac Surgery Morbidity and Mortality Committee  
ST John Westshore Hospital, Westlake, OH, 2003-06

Member Committee to Investigate Combined Cardiovascular Disease Department  
ST John Westshore Hospital, 2003-05

Cancer Committee,  
Louis Stokes VAMC Cleveland 2007-present

Institutional Review Board,  
Louis Stokes VAMC Cleveland 2007-present

Acting Chief of Surgery  
Louis Stokes VAMC Cleveland, May-June 2006

Search Committee for Cardiology Section Chief  
Louis Stokes VAMC, Cleveland, OH. 2007

Search Committee for Chief of Surgical Service  
Louis Stokes VAMC, Cleveland OH, 2008-09

Co-chair Surgical ICU Committee  
Louis Stokes Cleveland VAMC, Cleveland, OH, 2008-09

Member, Critical Care Council,  
Louis Stokes VAMC, Cleveland, OH, 2009-present

Member, Transfusion Committee  
Louis Stokes VAMC, Cleveland OH, 2009-present

Member, Board of Directors Northeastern Ohio Medical University Foundation  
Board, Rootstown, OH 2012-present

Co-Chair, VISN 10 Surgery Sub-council 2011-2016

Co-Chair VISN 10 Capitol Equipment Purchasing/ Planning Council 2011-15

VISN 10 Health Systems Council 2012-2016 (co-chair Surgery)

Member, Committee on Directors, NEOMED Foundation Board 2012-present

Member, Search Committee for Associate Director of Patient Care Services/  
Nursing Service, Louis Stokes VAMC 2011

Chair OR Steering Committee  
Louis Stokes VAMC, Cleveland, OH, 2012-present

Member, Search Committee for Nursing Director of Ambulatory Surgery Center,  
Louis Stokes, Cleveland, OH VAMC, 2013

Member, Search Committee Chief of Surgery CWRU SOM 2014

Medical Executive Committee Louis Stokes VAMC 2013-present

Residency Education Committee CWRU General Surgery Residency 2013-present

Chairman Medical Monitoring Committee Advanced Platform Technology Center  
Louis Stokes VAMC/CWRU 2017-present

CYO Basketball coach Lakewood Catholic Academy 2006-present

Baseball Coach Four Corners Baseball League Cleveland Ohio 2004-07

**Editorial Activities:**

Reviewer, Chest

Ad-hoc Reviewer, Surgery

Reviewer Annals of Thoracic Surgery

Reviewer Journal of Thoracic and Cardiovascular Surgery

Reviewer Journal of Heart and Lung Transplantation

Ad-hoc Reviewer JAMA Surgery

**Industrial Activity:**

Speaker Bureau, Zymogenetics Inc. 2009-2013

Scientific Advisory Board, Genzyme (beating heart surgery) 1999-2003



Clinical Proctor, beating heart surgery, Genzyme Inc. 1999-2003

**Honors and Awards:**

Who's Who of American College and University Students 1977-79

Recipient: Rev. Paul J. O'Connor Upper Classman Scholarship  
Xavier University, Cincinnati, Ohio 1978-79

Recipient: "The Golden Stethoscope Award"  
Outstanding Resident Teacher 1989  
Medical College of Pennsylvania

Nominated: Caves Award for Young Investigators  
International Society for Heart and Lung Transplantation 1994

Nominated: Paul Samson Young Investigator Award Western Thoracic Surgical  
Association, 1994

Scientific Program Director/ Bylaws-Membership Chairman 21<sup>st</sup> Century Cardiac  
Surgeons 1994-96

Member Strathmore's Who's Who, 1998

Vice President: 21<sup>st</sup> Century Cardiac Surgical Society 1997-99

President: 21<sup>st</sup> Century Cardiac Surgical Society 2000-2002

Member: Cambridge's Who's Who 2007-08

Department of Veterans Affairs Performance Award 2007

**Honors and Awards (to students and residents under my supervision):**

Alpha Omega Alpha Medical Honor Society Award 1996, to A.L. Rovner  
The Irwin H. Lepow Student Research Day  
Case Western Reserve University

1<sup>st</sup> Place: Post Graduate Student Paper Competition 1996, to A.L. Rovner  
15<sup>th</sup> Southern Biomedical Engineering Meeting  
Dayton, Ohio

C. Walton Lillehei Resident Research Forum, 81<sup>st</sup> Annual Meeting of the American  
Association of Thoracic Surgery, San Diego Ca. May 2001 to N. Hedayati, M.D.

**Memberships:**

Council of Chiefs, Association of VA Surgeons  
Eastern Association of Cardiothoracic Surgery  
Affiliate Member, American College of Cardiology  
Pittsburgh Thoracic Society  
Affiliate Member, The American College of Chest Physicians  
Fellow, The American College of Surgeons  
Society of Thoracic Surgeons  
International Society Heart and Lung Transplantation  
American Heart Association  
Academy of Medicine of Cleveland  
American Medical Association  
21st Century Cardiac Surgical Society – Founding Member  
International Functional Electrical Stimulation Society  
Association for Academic Surgeons  
Cleveland Surgical Society  
American Society of Artificial Internal Organs  
George J. Magovern Surgical Society  
Central Surgical Association  
Ohio State Medical Association  
Innominatum Society  
Pasteur Club  
Association of VA Surgeons  
International Society for Minimally Invasive Cardiac Surgery  
CTS Net  
European Association for Cardiothoracic Surgery

**PUBLICATIONS:****Patents:**

Benton K, Cmolik BL, Weinert R. Catalyst useful for the polymerization of Alpha-Olefins. .

US Patent #4415474, 1983

**Peer Reviewed Manuscripts:**

1. Brooks S, Cmolik BL, Young J, Townsend R, Diamond D. Transesophageal echocardiographic examination of a patient with traumatic aortic dissection from blunt chest trauma: A case report. J Trauma 1991; 31:841-45
2. Brooks S, Young J, Cmolik BL, Schina M, Dianzumba S, Townsend R, Diamond D. The use of transesophageal echocardiography in the evaluation of blunt chest trauma. J Trauma, 1992; 32:761-66
3. Townsend R, Young J, Cmolik B, Diamond D. Transesophageal Echocardiography. J Trauma 1992 Nov; 33 (5): 795
4. Cmolik BL, Ortiz J, Ayers GM, Lee JH, Geha AS, Waldo AL. Successful very low energy atrial defibrillation using temporary epicardial wire electrodes. J Thor Cardiovasc Surg 1996; 111(2):392-97
5. Cmolik BL, Park SE, Lazzara RR, Pennock BE, Magovern JA. Heterotopic lung transplantation: temporary biologic support for reversible pulmonary insufficiency. J Heart Lung Transplant 1995; 14:192-8
6. Cmolik BL, Spero JA, Magovern GJ, Clark RE. Redo cardiac surgery: Late bleeding complications from topical thrombin induced Factor V deficiency. J Thorac Cardiovasc Surg, 1993; 105:222-8
7. Cmolik BL. The heat of combustion of triphenylantimony and its derivatives. Bachelor of Science Thesis, Xavier University, Cincinnati, Ohio, May 1979
8. Lazzara RR, Cmolik BL, Trumble DR, Pennock BE, Magovern JA. Experimental studies on heterotopic lung transplantation during temporary pulmonary insufficiency. Chest 1994; 106:257-61
9. Lazzara RR, Park SE, Cmolik BL, Trumble DR, Magovern JA. Static left latissimus dorsi cardiomyoplasty: effect on left ventricular function. J Heart Lung Transplant 1993; 12:1024-8
10. Magovern JA, Park SE, Cmolik BL, Trumble DR, Christlieb IY, Magovern GJ. Left ventricular function improves with cardiomyoplasty using the right latissimus dorsi. Circulation, 1993; 88(part II):298-303.
11. Crosby L, Palarski VA, Cottington E, Cmolik BL. Iron supplementation for acute blood loss anemia after coronary bypass surgery: a randomized, placebo-controlled study. Heart & Lung 1994;23(6):493-9.
12. Ortiz J, Sokoloski MC, Ayers GM, Cmolik BL, Niwano S, Geha AS, Waldo AL. Atrial defibrillation using temporary epicardial defibrillation stainless steel wire electrodes. J Am Col Cardiol.1995;26:1356-64

13. Park SE, Cmolik BL, Clark RE. Outcome prediction in cardiac surgery: Benefits and limitations of large databases. *Curr Opin Cardio*, 1991;7:285-90
14. Park SE, Cmolik BL, Trumble DR, Magovern JA. Right latissimus dorsi cardiomyoplasty augments left ventricular systolic performance. *Ann Thor Surg* 1993 56:1290-5
15. Townsend RN, Young JC, Cmolik BL, Diamond DL. Transesophageal echocardiography (letter). *Journal of Trauma* 1992; 33(5):795
16. Lee JH, Geha AS, Rattehalli NM, Cmolik BL, Johnson NJ, Biblo LA, Carlson MD, Waldo AJ. Salvage of infected ICD's: management without removal. *PACE* 1996; 19(pt.I):437-42
17. Cmolik BL, Thompson DR, Geha AS, George DT. Aortomyoplasty Improves Coronary Blood Flow in Heart Failure, *Annals of Thoracic Surgery* 2001;71:284-89
18. Cheever EA, Thompson DR, Cmolik BL, Santamore WP, George DT. A Versatile Microprocessor-Based Multi-Channel Stimulator for Skeletal Muscle Cardiac Assist, *IEEE Trans. on BME*. 45(1): 56-67, 1998.
19. Lee JH, Kim KH, van Heeckeren DW, Murrell HK, Cmolik BL, Graber R, Effron B, Geha AS. Cost Analysis of Early Extubation Following Coronary Bypass Surgery. *Surgery* 1996;120: 611-19
20. Lee JH, Murrell H, Strony J, Cmolik B, Nair R, Lesnefsky E, van Heeckeren DW, Geha AS. Analysis of Coronary Bypass Surgery Following Acute Myocardial Infarction. *Surgery* 1997; 122: 675-81
21. Mesh CL, Cmolik BL, van Heeckeren DW, Lee JH, Whittlesey D, Graham LM, Geha AS, Bowlin SJ. Coronary bypass in vascular patients: a relatively high-risk procedure., *Ann Vasc Surg* 11:6, 612-9, Nov, 1997.
22. Cmolik BL, Thompson DR, Sherwood JT, Rovner AL, Geha AS, George DT. Optimizing muscle wrap orientation in aortomyoplasty. *Basic and Applied Myology* 1999; 9 (4) 167-75
23. Hedayati N, Schomisch S, Carino J, Cmolik B. Diastolic Counterpulsation using Aortomyoplasyy. *Re. Adv. In Biomedical Eng.*,2001;2;15-25
24. Hedayati N, Sherwood JT, Schomisch SJ, Carino JL, Cmolik BL. Circulatory benefits of diastolic counterpulsation in an ischemic heart failure model after aortomyoplasty. *JTCVS*,2002;123 (6) 1067-73
25. Hedayati N, Schomisch SJ, Carino JL, Sherwood JT, Lesnefsky EJ, Cmolik BL. Cardioprotection by St Thomas' solution is mediated by Protein Kinase C and Tyrosine Kinase *J Surg Res* 2003; 113, 121-27
26. Sherwood JT, Schomisch SJ, Thompson DR, George DT, Cmolik BL. Aortomyoplasty: Hemodynamics and Comparison to the Intra-Aortic Balloon Pump. *2003 J Surg Res* 110, 315-321
27. Levy DR, Cmolik BL, van Heeckeren DW, Lee JH, Markowitz AH, and Stewart RW. Off Pump or On Pump? Developing a Strategy to Choose the Best Operation for Each Patient *Am Heart J* 144 (5) 881-832, Nov 2002

28. el-Zein C, Sherwood JT, Kim K, Cmolik BL Lee JH. Reducing mortality among elderly patients undergoing urgent surgical revascularization for acute myocardial infarction. *Am J Geriatr Cardiol*. 1999 Jan 8 (1): 26-31
29. Schomisch SJ, Murdock DG, Hedayati N, Carino JL, Lesnefsky EJ, Cmolik BL. Cardioplegia prevents ischemia-induced transcriptional alterations of cytoprotective genes in rat hearts: a DNA microarray study. *JTCVS* 2005;130:1151.e1-1151.e13
30. Shroyer AL, Grover FL, Hattler B, et al. For the Veterans Affairs Randomized On/Off Bypass (ROOBY) Study Group. On-Pump versus Off-Pump-Coronary Artery Bypass Surgery. *N Engl J Med* 2009; 361 1827-1837
31. Potkay JA, Magnetta M, Vinson A, Cmolik B. Bio-inspired, efficient, artificial lung employing air as the ventilating gas. Royal Society of Chemistry, Lab-on-a Chip; DOI: 10.1039/C1LC20020H 2901-2909, July 2011
32. Madhwal S, Goldberg J, Barcena J, Guha A, Gogate P, Cmolik B, Elgudin Y. An Unusual Case of Acute Mitral Regurgitation: Idiopathic Hypereosinophilic Syndrome. *Ann Thor Surg* 2012; 93: 974-977
33. Kamalesh M, Sharp T, Tang C, Shunk K, Ward H, Walsh J, King S, Colling C, Moritz T, Reda D, for the VA CARDS Investigators. Percutaneous Coronary Interventions versus Coronary Artery Bypass Surgery in United States Veterans with Diabetes. *J AM Coll Cardiol* 2013; 61: 808-16
34. Kovatch KM, LaBarbera MC, Moter MC, Cmolik BL, van Lunteren E, Sen Gupta A, Capadona JR, Potkay JA. *In Vitro* and *In Vivo* Evaluation of a Biomimetic, Hemocompatible, Microfluidic Artificial Lung. *Lab on a Chip*, The Royal Society of Chemistry 2015, 15, 1366-1375
35. Smith J, Berman S, Dimick J, Curry S, Arfons L, Cmolik B, Savinell R, Woods K, Price J, Mazanec P. Distress Screening and Management in an Outpatient VA Cancer Clinic: A Pilot Project Involving Ambulatory Patients Across the Disease Trajectory. *Fed. Practitioner*. 2017; 34: 37-44S
36. Shroyer A, Hattler B, Wagner T. Five Year Outcomes After On-Pump and Off-Pump Coronary Artery Bypass. *N Engl J Med* 2017 Aug 17;377 (7);623-632

**Book Chapters:**

1. Magovern JA, Cmolik BL. Cardiomyoplasty. Glenn's Thoracic and Cardiovascular Surgery 6th Edition. 1995, pp.1901-14
2. Cmolik BL, Geha AS. Coronary artery bypass surgery, techniques and conduits. Glenn's Thoracic and Cardiovascular Surgery 6<sup>th</sup> Edition 1995, pp.2081-94
3. Cmolik BL, Park SE, Magovern JA. Cardiomyoplasty as an alternative for chronic ventricular support. Cardiac Surgery: State of the Art Reviews. Vol. 7 (2) 1992: 425-3
4. Reike L, Cmolik BL. Pericardiocentesis. In: Interventional Critical Care: An Advanced Care Practitioners Handbook for Procedures in the ICU. 2014 Sherry and Sing editors

**Abstracts and Extended Abstracts:**

1. Brooks S, Young J, Cmolik BL, Schina M, Dianzumba S, Townsend R, Diamond D. The use of transesophageal echocardiography in the evaluation of blunt chest trauma. Proceedings Am Assoc Surg Trauma, 1991, p 184
2. Cmolik BL, Mure A, Diamond D. The use of the external skeletal fixation in the management of complex pelvic ring fractures. The American Trauma Society 1987 Meeting, Washington, DC, May 1987
3. Cmolik BL, Ortiz J, Ayers GM, Lee JH, Geha AS, Waldo AL. Successful very low energy atrial defibrillation using temporary epicardial wire electrodes. Proceedings of the Western Thoracic Surg Assn 1994; p 28
4. Cmolik BL, Park SE, Lazzara RR, Pennock BE, Magovern JA. Heterotopic lung transplantation: alternate support for gas exchange in respiratory distress syndrome or as a bridge to orthotopic lung transplantation. J Heart Lung Transplant 1994;13 (1):S93
5. Cmolik BL, Park SE, Trumble DR, Pennock BE, Lazzara RR, Magovern JA. Auxiliary support for gas exchange in respiratory distress syndrome: Heterotopic lung transplantation. Allegheny-Singer Research Institute, 1990-1992 Scientific Report, 1992; pp 14-15
6. Cmolik BL, Park SE, Trumble DR, Pennock BE, Magovern JA. Heterotopic lung transplant: Temporary support for gas exchange in ARDS. Surgical Forum, 1992; XLIII:300-304
7. Cmolik BL, Spero JA, Magovern GJ, Clark RE. Topical bovine thrombin induced Factor V deficiency seen after cardiac re-operation. Allegheny- Singer Research Institute, 1990-92 Scientific Report, 1992; pp 16-17
8. Crosby LH, Palarski V, Cmolik BL, Cottington, E. Iron supplementation for acute blood loss anemia after coronary artery bypass surgery. Allegheny-Singer Research Institute 1990-1992 Scientific Report, 1993; pp 20-22
9. George DT, Bauman JW, Geha AS, Cmolik BL. Analytical model of aortomyoplasty: effects of skeletal muscle contraction dynamics. Ann. Biomed. Eng. 23(S1):195, 1995

10. Lazzara RR, Cmolik BL, Magovern JA. Heterotopic lung transplantation: Treatment for reversible pulmonary insufficiency or as a bridge to orthotopic lung transplantation. *Chest*, 1993; 104(2) Suppl, 1293
11. Lazzara RR, Cmolik BL, Park SE, Trumble DR, Magovern JA. Effect of static cardiomyoplasty on ventricular function. *AAMI Cardiovasc Sci & Tech Conf*, 1992 p.246.
12. Magovern JA, Park SE, Cmolik BL, Trumble DR, Christlieb IY, Magovern GJ. Left ventricular function improves with cardiomyoplasty using the right latissimus dorsi. *Proceedings PA Chapter, Am College Cardiol*, Sept 1992
13. Magovern JA, Park SE, Cmolik BL, Trumble DR, Christlieb IY, Magovern GJ. Left ventricular function improves with cardiomyoplasty using the right latissimus dorsi. *Allegheny-Singer Research Institute 1190-92 Scientific Report*, 1992; p 30
14. Ortiz J, Sokolowski MC, Cmolik BL, Ayers GM, Niwano S, Lee JH, Geha AS, Waldo AL. Successful low energy atrial defibrillation using temporary wire electrodes. *North American Society of Pacing and Electrophysiology* 1994
15. Park SE, Cmolik BL, Clark RE. Establishing a functioning isolated working rabbit heart apparatus. *Allegheny-Singer Research Institute 1990-92 Scientific Report*, 1992; p 11
16. Park SE, Cmolik BL, Trumble DR, Magovern JA. Left ventricular systolic augmentation with the right latissimus dorsi cardiomyoplasty. *Proceedings S Thorac Surg Assoc*, November 1992
17. Park SE, Cmolik BL, Trumble DR, Magovern JA. Right latissimus dorsi cardiomyoplasty augments left ventricular systolic performance. *Allegheny-Singer Research Institute 1990-92 Scientific Report*, 1992; pp 12-13
18. Spero JA, Triplett DA, Cmolik BL, Reid C, Clark RE. A family of clotting factor inhibitors primarily involving FV and FXI after cardiovascular and neurosurgical procedures. *Blood*, 1992; 78:245
19. Lee JH, Geha AS, Rattahalli NM, Cmolik BL, Johnson NJ, Biblo LA, Carlson MD, Waldo AL. Evolving strategies in the management of postoperative ICD infections. *PACE* 1994; 17(2); 780
20. Rovner AL, Cmolik BL, Thompson DR, Cheever EA, Geha AS, George DT. Optimizing muscle wrap orientation for aortomyoplasty. *Proc 15<sup>th</sup> Southern Biomedical Engineering Conference* P513-15, 1996.
21. Cmolik BL, Thompson DR, Geha AS, George DT. A new muscle wrap configuration increases the effectiveness of aortomyoplasty. *Proc 1<sup>st</sup> Annual Conference, International Functional Electrical Stimulation Society (IFESS)* p29,1996
22. George DT, Geha AS, Cmolik BL. Numerical model of aortomyoplasty. *Proc 1<sup>st</sup> Annual Conference, International Functional Electrical Stimulation Society (IFESS)* p 85, 1996
23. Cmolik BL, Thompson DR, Geha AS, George DT. Optimizing muscle wrap orientation for aortomyoplasty, *Proc. 10<sup>th</sup> International Congress Cardioslim* 96 p121
24. Lee JH, Miller JD, Murrell H, Cmolik B, van Heeckeren DW, Geha AS. Predictors of mortality for coronary bypass following recent infarction. *Chest* 1996; 110: 209S

25. Lee JH, Murrell H, Cmolik BL, van Heeckeren DW, Geha AS. Optimal timing of early extubation following coronary bypass surgery. *Chest* 1996; 110: 183S
26. George DT, Thompson DR, Cheever EA, Geha AS, Cmolik BL. Peristaltic Aortomyoplasty, 17<sup>th</sup> Southern Biomedical Engineering Conference, San Antonio, Texas
27. Cmolik BL, Thompson DR, Geha AS, George DT. Direct Measure of Coronary Blood Flow After Aortomyoplasty in a Chronic Heart Failure Model. *Circulation* 96(8):I-372, 1997.
28. Thompson DR, Cmolik BL, Geha AS, George DT. Factors Influencing Coronary Blood Flow in Aortomyoplasty. *Annals of Biomedical Engineering* 25(S1):153, 1997.
29. George DT, Thompson DR, Cheever EA, Geha AS, Cmolik BL. Muscle-to-Cardiac Timing for Aortomyoplasty. *Proc. 2<sup>nd</sup> Annual Conference of the International Functional Electrical Stimulation Society*, D. Popovic, Editor, pp. 65-67, 1997.
30. Cmolik BL, Thompson DR, Cheever EA, Geha AS, George DT. Beneficial Effects of Aortomyoplasty are Maintained Following Chronic Muscle Conditioning. *J. of Heart Failure*, 4(1):187, 1997.
31. Cmolik BL, Thompson DR, Geha AS, George DT. Optimizing Aortomyoplasty Performance Using Muscle Wrap Geometry, *J. American College of Cardiology* 1997;29(2 suppl A): 318A.
32. Thompson DR, Cmolik BL, Cheever EA, Geha AS, George DT. Optimizing Muscle-to-Cardiac Timing in Aortomyoplasty, in *Biomedical Sciences Instrumentation*, Eds. P.K. Bajpai and H. A. Benghuzzi, 33:486-490, 1997.
33. Cmolik, BL, Thompson DR, Geha AS, George DT. Direct Evidence of Increase in Coronary Artery Blood Flow after Aortomyoplasty in a Chronic Heart Failure Model. *Archives des Maladies du Coeur et des Vaisseaux* 91 (III):73, June 1998
34. George DT, Thompson DR, Cheever EA, Geha AS, Cmolik BL. Selective Stimulation of the Latissimus Dorsi Muscle During Aortomyoplasty in a Chronic Heart Failure Model. *Ann Biomed. Eng.* 1998, 28 Suppl., S-54.
35. Sherwood JT, Thompson DR, Schomisch SJ, Stewart RW, George DT, Cmolik BL. Chronic Diastolic Counterpulsation with Aortomyoplasty: Effectiveness at Six Months. *Surg Forum* 1999 L 176-78
36. Hedayati N, Sherwood JT, Schomisch SJ, Carino JL, Cmolik BL. Circulatory benefits of diastolic counterpulsation in an ischemic heart failure model after aortomyoplasty 2001 AATS p112
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44. Donskey C, Elgudin Y, Whittlesey D, Supple L, Cmolik B. Measurement of Serum Vancomycin Levels after Topical Application During Cardiac Surgical Procedures. The Association of VA Surgeons 38<sup>th</sup> Annual Meeting, New Haven, CT. April 2013 p. 113
45. Jia Q, Cmolik B, Elgudin Y. Replacement of Ascending Aorta for Aneurysmal Disease: Retrospective Review of a Single Center Experience. The association of VA Surgeons 38<sup>th</sup> Annual Meeting, New Haven CT, April 2013, p 114.
46. Marderstein EL, Crawshaw B, Clarke J, Mi H, Hericks C, Wong R, Abbas M, Stiner S, Cmolik B. A Comprehensive VA Tele-Surgery Program Reduces Patient Travel and Saves Travel Reimbursement Cost. The Association of VA Surgeons 38<sup>th</sup> Annual Meeting, New Haven CT. April 2013, p 49.
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**Presentations:**

1. "The Heat of Combustion of Triphenylantimony and Its Derivatives." The Student Affiliate Chapter Meeting of the American Chemical Society, The College of Wooster, Wooster, Ohio, March 1979
2. "The Use of the External Skeletal Fixation in the Management of Pelvic Ring Fractures." First place - Clinical Research, Residents Research Competition of the Southwest Pennsylvania Chapter of the American College of Surgeons, Pittsburgh, Pennsylvania, November 1986
3. "The Diagnosis and Management of Primary B-Cell Lymphoma of the Lung." Pittsburgh Thoracic Society, February 1987
4. "The Use of the External Skeletal Fixation in the Management of Pelvic Ring Fractures." Second Place, The American College of Surgeons Trauma Competition, Hershey, Pennsylvania, March 1987
5. "The Use of the External Skeletal Fixation in the Management of Complex Pelvic Ring Fractures." The American Trauma Society, Washington, DC, May 1987
6. "The Diagnosis and Management of Atrial Septal Defects in the Adult." Cardiology Conference, Allegheny General Hospital, Pittsburgh, Pennsylvania, November 1990
7. "Transesophageal Echocardiography in the Diagnosis of Acute Traumatic Tears of the Descending Aorta." Pittsburgh Thoracic Society, Pittsburgh, Pennsylvania, February 1991
8. "Ventricular Aneurysms and Pseudo aneurysms - Diagnosis and Management." Cardiology Conference, Allegheny General Hospital, Pittsburgh, Pennsylvania, March 1991
9. "Current Trends in the Management of Aortic Valve Disease." Thoracic Surgery Conference, Allegheny General Hospital, Pittsburgh, Pennsylvania, April 1991
10. "Cardiomyoplasty: Results, Indications, and Expectations." Workshop Demonstration of Cardiomyoplasty in the Canine Model, Allegheny General Hospital, Pittsburgh, Pennsylvania, November 1991
11. "The Use of the Heterotopic Lung as an Auxiliary Oxygenator and Ventilator in the Canine Model." Board of Allegheny Heart Institute, Pittsburgh, Pennsylvania, December 1991
12. "Factor V Deficiency in Redo Cardiac Surgery Associated with the Use of Topical Bovine Thrombin." Pittsburgh Thoracic Society, Pittsburgh, Pennsylvania, February 1992
13. "Redo Cardiac Surgery: Late Bleeding Complications from Topical Thrombin Induced Factor V Deficiency." American Association for Thoracic Surgery, 72nd Annual Meeting, Los Angeles, California, April 1992
14. "Heterotopic Lung Transplant: Temporary Support for Gas Exchange in ARDS." Allegheny-Singer Research Institute/St. Christopher's Hospital for Children Joint Research Day, Philadelphia, Pennsylvania, May 1992
15. "Heterotopic Lung Transplant: Temporary Support for Gas Exchange in ARDS." Allegheny General Hospital Resident Research Day, Pittsburgh, Pennsylvania, June 1992

16. "Heterotopic Lung Transplantation: Temporary Support for Gas Exchange in ARDS." Pennsylvania Association for Thoracic Surgery Resident Competition, Farmington, Pennsylvania, September 1992
17. "Measurement of Left Ventricular Volume Using Conductance Catheter and Sono-micrometric Techniques." Cardiology Conference, Allegheny General Hospital, Pittsburgh, Pennsylvania, September 1992
18. "The Use of Heterotopic Lung Transplantation for Temporary Support of Gas Exchange in ARDS." American College of Surgeons Surgical Forum, New Orleans, Louisiana, October 1992
19. "Dynamic Cardiomyoplasty; New Options in the Surgical Treatment of Congestive Heart Failure." Surgery Today televised conference, Case Western Reserve University, Cleveland, Ohio, September 1993
20. "Surgery for Congestive Heart Failure. Combined Surgical Conference, Trumbull Memorial Hospital, Warren, Ohio, September 1993
21. "Correction of Chest Wall Defect in a Neonate with Poland's Syndrome". American College of Surgeons, San Francisco, California, October 1993
22. "The Use of Skeletal Muscle for Cardiac Assistance". Surgical Grand Rounds, Turmbull Memorial Hospital, Warren, Ohio, October 1993
23. "New Surgical Option in the Treatment of Heart Failure". Surgical Grand Rounds, Case Western Reserve University, Metro health Medical Center, Cleveland, Ohio, November 1993
24. "Successful Very Low Energy Atrial Defibrillation Using Temporary Stainless Steel Wire Electrodes". The Western Thoracic Surgical Association, Squaw Valley, Ca., June 1994 \*Samson Award Nominee
25. "Update on Prosthetic Valve Replacement". Cardiology Grand Rounds, Case Western Reserve University, Cleveland, Ohio, February 1995
26. "Peristaltic Aortomyoplasty - A new Application of Skeletal Muscle Cardiac Assistance". Central Surgical Association, Cleveland, Ohio, March 1995
27. "Mechanical and Biological Circulatory Assistance". Cardiology Fellows Lecture Series, Case Western Reserve University, Cleveland, Ohio, April 1995
28. "A Novel Method for the Management of Postoperative Atrial Arrhythmias". 21st Century Cardiac Surgery Society, Boston, Mass., April 1995
29. "A History of Myocardial Protection". Anesthesia Core Conference, Case Western Reserve University, April 1995
30. "A New Muscle Wrap Configuration Increases the Effectiveness of Aortomyoplasty" 1<sup>st</sup> Annual meeting of the International Society for Functional Electrical Stimulation, Cleveland, Ohio May 1996
31. "Optimizing Muscle Wrap Orientation for Aortomyoplasty" 10<sup>th</sup> International Congress Cardiostim 96. Nice France June 1996

32. “Optimizing Aortomyoplasty Performance Using Muscle Wrap Geometry” American College of Cardiology, Anaheim Ca., March 1997
33. “Beneficial Effects of Aortomyoplasty are Maintained Following Chronic Muscle Conditioning”, 5th World Congress on Heart Failure, Washington, D.C., May 1997
34. “Direct Measure of Coronary Blood Flow After Aortomyoplasty in a Chronic Heart Failure Model American Heart Association, Orlando, Fla. Nov. 1997
35. “Direct Evidence of Increase in Coronary Artery Blood Flow after Aortomyoplasty in a Chronic Heart Failure Model” Cardiosim 98, Nice, France
36. “Selective Stimulation of Latissimus Dorsi Muscle During Aortomyoplasty in a Chronic Heart Failure Model. Biomedical Engineering Society 1998 Annual Meeting, Oct 11,1998, Cleveland, Ohio Chapter of the Mended Hearts November 2003 Cleveland Ohio
37. Advances in Cardiothoracic Surgery. Cardiology Update St. Vincent Charity Hospital May 17 2003 Off-pump cardiac surgery as an alternative to conventional revascularization techniques. Northeastern Ohio
38. Off-pump cardiac surgery as an alternative to conventional revascularization techniques. Northeastern Ohio Chapter of Mended Hearts. Nov. 2003
39. The role of MAP kinases in myocardial protection. 21<sup>st</sup> Century Cardiac Surgical Society, Orlando Fla. Feb. 2003
40. Skeletal Muscle Cardiac Assist. Cardiothoracic Surgery Grand Rounds; University Hospitals of Cleveland May 2005
41. Update on Cardiac Surgical Innovations, Southwest General Health Center, Nursing/Perfusion Conference. March 2006
42. Development of a Novel Heart Valve Tissue Engineering with Incorporated Cytokine Delivery. American Heart Association, New Orleans La. 2008 (poster)
43. Development of Polymer-Based Heart Valve Tissue Engineering Scaffolds with Growth Factor Delivery. Material Research Society Meeting, Boston, Ma. Dec. 2, 2008
44. Bio-Inspired Tissue Engineering Scaffolds for Heart Valves. Material Research Society, Boston, Ma., Dec. 4, 2008
45. Scaffold Manufacturing for Tissue Engineering. 29<sup>th</sup> ISHLT meeting. Paris, France April 2009 poster
46. Immune Mediated Coagulopathies. Charleston W Va. May 2009
47. The Development of Novel Biologically Inspired Scaffolds for Heart Valve Tissue Engineering. The Society for Heart Valve Design, Berlin Germany June 27-31, 2009. (Poster)
48. Measurement of Serum Vancomycin Levels After Topical Application During Cardiac Surgical Procedures. 38<sup>th</sup> Annual Meeting of the Association of VA Surgeons, New Haven CT, April 2013.

49. Replacement of Ascending Aorta for Aneurysmal Disease: Retrospective Review of a Single Center Experience. 38<sup>th</sup> Annual Meeting of the Association of VA Surgeons, New Haven CT, April 2013
50. A Comprehensive VA Tele-Surgery Program Reduces Patient Travel and Saves Travel Reimbursement Cost. 38<sup>th</sup> Annual Meeting of the Association of VA Surgeons, New Haven CT, April 2013
51. Survivorship Care for Veterans: Addressing the Unique Needs of Veteran Survivors. Oncology Nursing Society. Orlando, FL, April, 2015
52. Emerging Trends in Mediastinitis: National VA Experience 2006-15. 41<sup>st</sup> Annual Meeting of the Association of VA Surgeons, Houston Tx, May 2017
53. Should gram-negative antibiotic prophylaxis be considered peri-operatively during CABG? Wojnarski CJ, Elgudin Y, Rubelosky JJ, Whittlesey D, Wilson BM, Donskey CJ, Cmolik BL. Eastern Cardiothoracic Surgical Society, Amelia Island, Florida, October 2017