

- 07/00-06/02 Research Fellow, Cardiothoracic Surgery
Weill Medical College of Cornell University, New York, NY
- 07/00-06/02 Ethics Instructor
Weill Medical College of Cornell University, New York, NY
- 07/00-06/05 Assistant Surgeon, Resident
New York Presbyterian Hospital/Weill Cornell Medical Center, New York, NY
- 07/05-06/07 Fellow, Thoracic Surgery
Columbia University Medical Center, New York, NY

MEDICAL LICENSURE

- 1999 New York, #215071 (expired)
- 2008 New Jersey, #25MA08405200 (expired)
- 2018 Tennessee, #MD0000057605 (active)

BOARD CERTIFICATION

- 2006 Diplomate, American Board of Surgery, #50990
- 2016 American Board of Surgery Recertification
- 2010 Diplomate, American Board of Thoracic Surgery, #7630
- 2020 American Board of Thoracic Surgery Recertification

ACADEMIC APPOINTMENTS

- 07/07-06/15 Assistant Professor of Surgery
Columbia University, New York, NY
- 07/15-06/18 Associate Professor of Surgery
Columbia University, New York, NY
- 07/18-present H. William Scott, Jr. Chair in Surgery #2
Vanderbilt University Medical Center, Nashville, TN
- 07/18-present Associate Professor of Thoracic Surgery
Department of Thoracic Surgery
Vanderbilt University Medical Center, Nashville, TN
- 07/18-present Associate Professor of Cardiac Surgery
Department of Cardiac Surgery
Vanderbilt University Medical Center, Nashville, TN
- 08/18-present Adjunct Professor of Biomedical Engineering
Columbia University, New York, NY
- 02/20-present Adjunct Professor of Biomedical Engineering
Vanderbilt University, Nashville, TN

09/20-10/21 Associate Chair
Department of Thoracic Surgery
Vanderbilt University Medical Center, Nashville, TN

HOSPITAL OR AFFILIATED INSTITUTION APPOINTMENTS

07/08-06/18 Co-Director, The Center for Acute Respiratory Failure, New York-Presbyterian Hospital/
Columbia University Medical Center, New York, NY

07/09-06/18 Director, Pulmonary Thromboendartectomy Program, New York-Presbyterian Hospital/
Columbia University Medical Center, New York, NY

07/09-06/18 Director, Adult Extracorporeal Membrane Oxygenation Program, New York-
Presbyterian Hospital/Columbia University Medical Center, New York, NY

07/12-06/18 Surgical Director, The Pulmonary Hypertension Comprehensive Care Center, New York-
Presbyterian Hospital/Columbia University Medical Center, New York, NY

2018-present Surgical Director, Vanderbilt Lung Institute
Vanderbilt University Medical Center, Nashville, TN

07/18-present Director – Laboratory for Organ Recovery, Regeneration and Replacement
Department of Thoracic Surgery
Vanderbilt University Medical Center, Nashville, TN

07/18-present Director of EVLP Program (Site PI)
Department of Thoracic Surgery
Vanderbilt University Medical Center, Nashville, TN

MILITARY SERVICE

U.S. Army Appointments

2006-current Rank: Lieutenant Colonel
AOC: 61J/61K
Airborne School

Military Tours

2007 Operation Iraqi Freedom
• 928thnd Forward Surgical Team

2010-2011 Operation Enduring Freedom
• 352nd Combat Surgical Hospital, FOB Salerno, Afghanistan
• 344th Combat Surgical Hospital, FOB Salerno, Afghanistan

June 2014 Tanzania: MEDRETE 14-4

2016 Operation Freedom's Sentinel

2013 American Association for Thoracic Surgery: Guideline Writing Group for Bridge to Lung Transplantation & ECLS Lung Support

American Heart Association, New York Chapter

01/2000-12/2002 Ethicist for PAD1 Advisory Committee
Provided ethical analysis of protocols and studies

2014 Cardiovascular Surgery Council Section Member

American Society for Artificial Internal Organs

2014-2015 ASAIO Steering Committee – Former

2015 ASAIO Program Track Chairman (Pulmonary)

Extracorporeal Life Support Organization (ELSO), USA

2011-2014 ELSO Steering Committee at Large Member

Pulmonary Hypertension Association: Scientific Leadership Council

2018-2019 CTEPH Working Group

Society of Thoracic Surgeons

2013-2017 Task Force for Military Affairs

Tennessee Emergency Management Association, Department of Health

03/20-05/20 Chief Medical Officer for Alternative Care Sites – COVID-19 Response Team
Middle Tennessee

Editorial Appointments

Cancer Investigation

New York, NY

01/1995-12/1999 **Assistant Editor for the Bioethics Section**
Solicit and review articles on biomedical ethics

01/2000-12/2005 **Editor for the Bioethics Section**
Solicit and review articles on biomedical ethics

American Society for Artificial Internal Organs

2012-Current Editorial Board

Journal Reviewer

Annals of Thoracic Surgery

Journal of Thoracic and Cardiovascular Surgery

Nature Communications

Annals of Surgery

American Society for Artificial Internal Organs

Journal of the American College of Cardiology

The Journal of Trauma and Acute Care Surgery

Chest

American Journal of Transplantation

Other Reviewer Activities

Combat Casualty Care Research Program (U.S. Department of Defense) – Scientific Reviewer

HONORS AND AWARDS

- Academic All-ACC - Duke University
- Faculty Award for Academic Excellence – Darden School, University of Virginia
- William Shermet Award for Leadership and Academic Excellence – Darden School, UVA
- General Motors Fellowship Recipient
- Otto Sussman Fund Scholarship
- David P. Barr Fellow
- Dr. Connie Guion Scholarship
- Papanicolaou Fellow in Anatomy, 1998
- Moselle and Milton Pollack Prize in Medical Ethics, 1998; Prize is granted to the medical student who has demonstrated exceptional interest and ability in the field of Medical Ethics
- Alpha Omega Alpha – Medical Honor Society, Cornell University Medical College
- Administrative Chief Resident, 2004-2005
- Teaching Award in Surgery: For Excellence in Teaching and Mentoring, June 2017
Columbia University Department of Surgery
- Fellow – American Institute for Medical and Biological Engineering, 2020; Fellows are nominated each year by their peers and represent the top 2% of the medical and biological engineering community

TEACHING ACTIVITIES

Local

- | | |
|--------------|---|
| 2003-2004 | Instructor in <i>Medical Ethics</i>
University of Virginia Medical School, Charlottesville, VA |
| 2018-present | <i>Extracorporeal Membrane Oxygenation Course for Clinicians</i>
Vanderbilt University Medical Center, Nashville, TN |
| 2018-present | <i>Extracorporeal Membrane Oxygenation Cannulation Course</i>
Vanderbilt University Medical Center, Nashville, TN |

Regional

- | | |
|---------|--|
| 09/2010 | Program Director - <i>Extracorporeal Membrane Oxygenation Course: Current Uses & Future Directions</i>
Columbia University Medical Center, New York, NY |
| 01/2015 | Co-Director, <i>New Frontiers in Pulmonary Hypertension and ECMO</i>
Columbia University Sponsored Program, New York, NY |
| 03/2017 | Co-Director, <i>Innovative Therapeutics in Advanced Lung Disease</i>
Columbia University Sponsored Program, New York, NY |

National

- 01/2013 *Cannulation and Anticoagulation for Extracorporeal Membrane Oxygenation*
STS University Courses, Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA
- 04/2013 *Cannulation and Initiation of Venovenous ECMO, Weaning of ECMO, and Decannulation, Bridge to Recovery, Bridge to Transplant*, Extracorporeal Life Support Organization, Atlanta, GA
- 05/2014 Co-Director, Society of Thoracic Surgeons Symposium: *ECMO for Heart and Lung Support in Adults*, Chicago, IL
- 2014 *Decannulation, Bridge to Recovery, Bridge to Transplant*, Extracorporeal Life Support Organization – ECMO Course, Houston, TX
- 04/2015 *Veno-Arterial Extracorporeal Membrane Oxygenation*, Extracorporeal Life Support Organization Course in Adult Critical Care, Houston, TX
- 10/2015 *Strategies for Pulmonary Failure*, Society of Thoracic Surgeons/American Association for Thoracic Surgery Tech Conf, Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA
- 03/2017 *ECLS Transportation, and Patient Management for Veno-venous ECMO*, Society of Thoracic Surgeons – ELSO Management Symposium, Tampa Bay, FL
- 2017 Co-Director, *Cardiothoracic Transplant and Mechanical Circulatory Support of Heart and Lung Failure*, American Association of Thoracic, Surgeons, Boston, MA
- 11/2019 Instructor, *ECMO Cannulation Workshop*, Extracorporeal Life Support Organization (ELSO), Atlanta, GA

International

- 06/2011 *The role of Venovenous ECMO in Lung Transplantation*, The International Conference on ECMO, Paris, France
- 05/2014 *ECMO for Lung Transplantation: Who, When, and How*, EuroELSO 2014, Paris, France

Graduate Students/Research Fellows/Clinical Fellows

Ali Ibrahimiyeh, MD. Postdoctoral Research Fellow, Columbia University – 2008-10

Role: Research mentor and advisor for T32 grant

Investigated large animal models of pulmonary hypertension and ECMO support

Completed Fellowship in Cardiothoracic Surgery, Columbia University

Completed Advanced Congenital Fellowship, Stanford University

Current: Assistant Professor of Cardiothoracic Surgery, University of Nebraska

Jeff Javidfar, MD. Research Fellow, Columbia University – 2009-11

Role: Research Mentor and Advisor for T32

Recipient of Blakemore Award for Surgical Research, Columbia University

Administrative Chief Resident in General Surgery, Columbia University
Fellowship in Cardiothoracic Surgery, Duke University
Current: Assistant Professor of Surgery, Emory University; Associate Director of Lung Transplantation

John O'Neill – PhD in Biomedical Engineering, Columbia University – 2009-15
Doctoral thesis: *Bioengineered platforms for recovery and regeneration of the lung*
Role: PhD Committee. Mentor for research and Doctoral Thesis
Post-doctoral Research Scientist, Columbia University Medical Center
Recipient of SBIR award
Current: Chief Scientific Officer, Xylyx Bio, Inc.

Nicholas Shea, MD, MSE. Columbia University – 2013-14
Role: Advisor and Mentor for graduate studies in biomedical engineering for combined MD-MSE with a concentration in biomedical engineering.
Current: I-6 Resident in Cardiothoracic Surgery, Columbia University Medical Center

Mauer Biscotti, MD. ECMO Fellow, Columbia University Medical Center - 2013-15
Role: Director of Fellowship & Research Mentor
Administrative Chief Resident for General Surgery
Recipient of EuroELSO Travel Research Award
Recipient of Blakemore Prize for Surgical Research at Columbia University
Current: Attending Surgeon, San Antonio Military Medical Complex; Assistant Director of ECMO program for U.S. Military
Planned: Fellowship in Cardiothoracic Surgery, University of Pennsylvania – 2021

Brandon Guenthart, MD. Postdoctoral Research Fellow, Columbia University – 2014-17
Role: Research mentor and advisor for T32 grant
Finalist for AATS Lillehei Resident Forum for work on *Bioengineered lung and Advanced Theranostics for Organ Regeneration*.
2nd Prize at NYSTEM 2017 for work on organ regeneration
Administrative Chief Resident in General Surgery, Cornell University
Current: Cardiothoracic Surgery Fellow, Stanford University

Scott Chicotka, MD. ECMO Fellow, Columbia University Medical Center - 2015-2017
Role: Director of Fellowship & Research Mentor
Administrative Chief Resident for General Surgery
Current: Cardiothoracic Fellow, University of California San Diego

Caitlin Demarest – MD, PhD in Biomedical Engineering, Carnegie Mellon University – 2015-18
Doctoral thesis: *Artificial lung development for Pulmonary Assist Devices*
Role: PhD Committee. Mentor for research and Doctoral Thesis
American Heart Association Fellowship Grant - \$100K
Blakemore Award for Best Research presentation, Columbia University
Administrative Chief Resident in General Surgery, Columbia University Medical Center
Current: Cardiothoracic Surgery Fellow, University of Michigan

Peter Liou, MD. ECMO Fellow, Columbia University Medical Center – 2016-18
Role: Director of Fellowship & Research Mentor
Administrative Chief Resident in General Surgery, Columbia University

Current: Fellow in Liver and Renal Transplantation, Columbia University

Michael Salna, MD, MSE. Columbia University – 2016-18

Role: Advisor and Research Mentor in Medical School

Recipient: Scientific Poster Winner at AATS Mechanical Support for the Heart and Lung Symposium, 2019/20

Current: I-6 Resident in Cardiothoracic Surgery, Columbia University Medical Center

Michael Simpson, MD. Columbia University -2017-18

Role: Advisor and Research Mentor in Medical School

Current: I-6 Resident in Cardiothoracic Surgery, Columbia University Medical Center

Yulia Tipograf, MD. ECMO Fellow, Columbia University Medical Center – 2017-19

Postdoctoral Research Fellow, Vanderbilt University

Current: General Surgery Resident, Columbia University Medical Center

Ahmed Hozain, MD. Postdoctoral Research Fellow, Columbia University – 2017-present

Role: Research Advisor and Mentor

Recipient of NIH Loan Repayment Program awarded for project: *Lung Regeneration and Recovery Using Stem Cell Therapy Enabled Through Cross-Circulation*

Recipient of AATS C. Walton Lillehei Award in 2019 for *Multiday Maintenance of Extracorporeal Lungs Using a Conscious Swine Model*

Rei Ukita, PhD in Biomedical Engineering – Artificial Lung Development and Organ Regeneration, Vanderbilt University - 2018-present

Role: Research Advisor and Mentor

Recipient of VICTR Grant 2019: *Three-dimensional visualization of clot formation inside clinical membrane oxygenators using computer tomography scan*

Recipient of Best Scientific Poster - AATS Mechanical Support for the Heart and Lung Symposium, 2020

Andrew Tumen, MD. Postdoctoral Research Fellow – Organ Regeneration, VUMC – 2019-present

Role: Research Advisor and Mentor

John W. Stokes, MD. Senior ECMO Fellow and Research, VUMC – 2019-present

Role: Mentor and Program Director

Yatrik J. Patel, MD. ECMO Fellow and Research – VUMC – 2020-present

Role: Mentor and Program Director

Wei Kelly Wu, MD. Postdoctoral Research Fellow - Organ Regeneration, VUMC – 2020-present

Role: Research Advisor and Mentor

Clinical Teaching

Columbia University Medical Center, New York, NY

2010-18 *Director* ECMO Training course

2010-18 *Proctor* Thoracic Surgery Resident Teaching Conference - Quarterly

2010-15 *Proctor* General Surgery Mock Oral Boards

2010-present *Proctor* Thoracic Surgery Mock Oral Boards

Vanderbilt Medical School and Residency Teaching Activities, Nashville, TN

2018-present *Proctor* Thoracic Surgery Resident Teaching Conference - Quarterly

2018-present *Proctor* Thoracic Surgery Mock Oral Boards

2019-present *Director* ECMO Cannulation course

Other Service/Training

American College of Surgeons

Advanced Trauma Operative Management (ATOM) – 2010

Advanced Surgical Skills for Exposure in Trauma – 2010

STS University Course – Instructor

Extracorporeal Life Support Organization (ELSO) Course Instructor

2013 Lectures

Cannulation and Initiation of Venovenous ECMO

Decannulation, Bridge to Recovery, Bridge to Transplant

ECMO Cannulation

ECMO Weaning

2014 Lectures

Decannulation, Bridge to Recovery, Bridge to Transplant

2015 Lectures

Veno-arterial ECMO

2019 Cannulation Simulation course

RESEARCH PROGRAM

Clinical Studies

Title: Increasing lung transplant availability using normothermic *ex vivo* lung perfusion (EVLP) at dedicated EVLP facility

Clinical trials identifier: NCT03641677; EVP-DEV-LTX-301

Sponsor: Lung Bioengineering, Inc.

Role: Principal Investigator – Site PI

Status: Actively recruiting

Grants: Present Support

U01 HL 134760-01 (Vunjak-Novakovic & Snoeck)

Modeling, pathogenesis and treatment of idiopathic pulmonary fibrosis

NHLBI

Role: Co-PI

Status: Approved funding 2015-2022

Amount: \$8,266,000

NIH/NHLBI RO1 (Antaki, PI)

Role: Co-I

Multiscale Modeling of Thrombosis in Artificial Circulation \$3,474,928 (Total costs for total project). The purpose of this project is to create a computer simulation program that will predict coagulation within medical devices, and thereby guide developers of these devices to produce

more safe and effective devices.

Status: Approved funding 4/1/17 – 3/31/21, Completed data enrollment

NIH/NHLBI: 1R01HL 140231-01A1 (**Bacchetta**)

The Road to Destination Therapy: Optimizing Long-Term Mechanical Cardiopulmonary Support for Pulmonary Hypertension

Role: PI

Amount: \$2,908,223

Status: Ongoing

(7/1/18 – 6/30/22)

NIH – SBIR: HL144341 (fundable score)

Title: Fibrotic lung extracellular matrix cell culture substrate to improve predictive in vitro models of pulmonary fibrosis for accelerated drug development towards more effective treatment options

PI: John O’Neill

Role: Consultant/Advisor

Award: \$225,000

Date: Fundable score

Grants: Past Support

NIH/NHLBI – SBIR: 1R43HL 150977-01

Title: Evaluation of the Effect of Commercial Processing on Artificial Lung Zwitterionic Coatings

PI: David Skoog, PhD

Role: CMO – Advanced Respiratory Technologies, LLC.

Amount: \$298,100

Status: Completed

CDMRP (Congressionally Directed Medical Research Programs)

Grant ID# GRANT12274144 (PI-Cook)

DMRP#: PR160872

A Highly Portable and Biocompatible Pulmonary Assist System for Long-Term Respiratory Support

Role: Co-I

Amount: \$1,733,581

Status: Completed

NIH/NHLBI: 1R43HL134450-01A1 (Skoog & Cook)

SBIR: Advanced Respiratory Technologies, LLC.

Pulmonary Assist Device for Destination Therapy

Role: Co-I

Amount: \$224,341

Status: 4/1/17 – 9/30/17

5R01HL089043-02 (Cook)

NIH/NHLBI/Carnegie Mellon University

Compliant Thoracic Artificial Lungs

The goals of this project are to improve the blood biocompatibility of compliant thoracic

artificial lungs to expand their use from weeks to several months.

Role: Co-Investigator

Amount: \$497,133

Status: Completed

R01 HL120046-01 (Vunjak-Novakovic & Snoeck)

Bioengineering a chimeric human lung

The goal is to engineer a functional chimeric human lung starting from lung rejected for transplantation by flow conditioning and replacement of the cellular material by the recipient's iPS-derived pulmonary cells.

Role: Co-PI; PI: Gordana Vunjak-Novakovic, PhD

Primary responsibilities focused on bioreactor

Amount: \$2,708,942

Status: Completed

Participation with Extracorporeal Life Support Organization (ELSO) National Registry for the adult patients at Columbia University Medical Center

Role: PI

Status: Completed

Cardiac resynchronization for RVF during PTE

Role: Co-PI

Status: Completed

Development of an Ambulatory Lung Assist Device for Acute Respiratory Distress Syndrome

Role: PI

Status: Completed

Selected for Phase I funding of the Irving Institute's Collaborative and Multidisciplinary Pilot Research (CaMPR) Award program

Amount: \$25,000

Near Infrared Spectroscopy in Patients with End Stage Heart Failure and Cardiogenic Shock

Role: PI

Status: Completed

Non-Invasive Monitoring of Oxygen Delivery in Lung Transplantation and ECMO placement using Near Infrared Spectroscopy

Role: PI

Status: Completed

EOLIA Trial: ECMO to rescue Lung Injury in severe ARDS

Role: Principle Investigator for Columbia University site

Status: Completed enrollment

Columbia Surgery Start up Grants

Hematologic and biochemical effects of CircuLite Pump with a membrane oxygenator

Role: PI

Research resident: Mauer Biscotti, M.D.

Porcine animal model of novel ECMO configuration with physiologic and hemocompatibility study

Amount: \$8,840

Status: Completed

Use of ECCO2 Removal for Hypercapnic Respiratory Failure: Feasibility Trial

Role: PI

Status: Completed

Agent impregnated hemostatic bandage in massive hemorrhage swine model

Amount: \$250,000 – Yes, Inc.

Role: PI

Status: Completed

Porcine lung decellularization using central ECMO

Columbia University Start up Grant

Role: PI (Biscotti & Bacchetta)

Amount: \$5,205

Status: Completed

Hematologic and biochemical effects of a novel ECMO system in a swine model of pulmonary Hypertension

AMA Foundation Seed Grant

Research student: Nicholas Shea (candidate for MD/MSE)

Role: PI-sponsor

Amount: \$2,500

Status: Completed

Patents & Inventions

Bacchetta M, Guenthart BA, Kim J, O’Neill J, Chicotka S, Vunjak-Novakovic G. (2016) Cross-circulation platform: Recovery, Regeneration, and Maintenance of Extracorporeal Organs. (CU16207): February 12, 2016

- US Provisional Patent: 16-50191-US-PV (501038.20430)
- International Patent: 16-50191-WO-PCT (PCT/US14/41990)
- Key design features: humidified temperature controlled bio-containment organ chamber, mobile base, feedback-regulated pressure limited flow with integrated circuit elements
- Enabling technologies: (i) biologic cuff device with sensors, (ii) crenelated Drainage cannula, (iii) patient safety clamps

Guenthart BA, O’Neill J, Kim J, **Bacchetta M**, Vunjak-Novakovic G. (2016)

Biomechanically compliant therapeutic lung bio-sealant: loadable lung extracellular Matrix hydrogel with thermogel patch. (CU17095): October 5, 2016.

- US Provisional Patent: 16-50204-US-PV (501038.20629)
- International patent: 16-50204-WO-PCT (PCT/US17/5549)
- Key design features: tissue-specific loadable extracellular matrix hydrogel, biomimetic porous thermogel patch

Vunjak-Novakovic G, Kim J, O'Neill J, and **Bacchetta M**. "Method and Apparatus for Targeted Drug Delivery of Small Liquid Volumes into Selected Regions of the Lung,"
- International Patent: WO2018/156460 A9 (2018)

Patent No. US 9,888,680,B2 – Functional recovery of human lungs for transplantation. February 12, 2018

Patent No. WO 2013/056116 A1 – Hemostatic compositions and dressing for bleeding

PUBLICATIONS

1. Fins JJ and **Bacchetta MD**. Framing the physician-assisted suicide and voluntary active euthanasia debate: the role of deontology, consequentialism, and clinical pragmatism. *J Am Geriatr Soc*. 1995 May;43(5):563-8. PMID: 7730541
2. **Bacchetta MD** and Richter G. Dimensions and classification of genetic interventions in the human genome. *Camb Q Healthc Ethics*. Summer 1996;5(3):450-7.
3. Miller FG, Fins JJ, **Bacchetta MD**. Clinical pragmatism: John Dewey and clinical ethics. *J Contemp Health Law Policy*. Fall 1996; 13(1):27-51. PMID: 9068236
4. Fins JJ, **Bacchetta MD**, Miller FG. Clinical pragmatism: a method of moral problem solving. *Kennedy Inst Ethics J*. 1997 Jun;7(2):129-45. PMID: 11654986
5. Dickson RC, Wright RM, **Bacchetta MD**, Bodily SE, Caldwell SH, Driscoll CJ, Pruett TL, Ishitani MB. Quality of Life of hepatitis B and C patients after liver transplantation. *Clin. Transplant*. 1997 Aug; 11(4):282-5. PMID 9267716
6. **Bacchetta MD** and Fins JJ. The economics of clinical ethics programs: a quantitative justification. *Camb Q Healthc Ethics*. Fall 1997;6(4):451-60. PMID: 9292221
7. **Bacchetta MD** and Richter G. Contemporary Ethical Analyses: A Shortfall in Scientific Knowledge. *Politics and the Life Sciences*. 1998 Mar;17(1):11-12.
8. Fins JJ, Miller FG, **Bacchetta MD**. Clinical pragmatism: bridging theory and practice. *Kennedy Inst Ethics J*. 1998 Mar;8(1):37-42. PMID: 11656752
9. Richter G, **Bacchetta MD**. Interventions in the human genome: some moral and ethical considerations. *J Med Philos*. 1998 Jun;23(3):303-17. PMID: 9736192
10. Fins JJ, Miller FG, Acres CA, **Bacchetta MD**, Huzzard LL, Rapkin BD. End-of-life decision-making in the hospital: current practice and future prospects. *J Pain Symptom Manage*. 1999 Jan;17(1):6-15. PMID: 9919861
11. Eachempati SR, **Bacchetta M**, Barie PS. The image of trauma: nail gun injury to the right ear and base of skull. *J Trauma*. 1999 Nov;47(5):985. PMID: 10568738
12. Barie PS, **Bacchetta MD**, Eachempati SR. The contemporary surgical intensive care unit. Structure, staffing, and issues. Schwab CW and Reilly PM (Guest Editors). *Surg Clin North Am*:

- Critical Care of the Trauma Patient: Concepts, Technology, and Problems. 2000 Jun;80(3):791-804. PMID: 10897261
13. Comerota AJ, Throm RC, Miller KA, Henry T, Chronos N, Laird J, Sequeira R, Kent CK, **Bacchetta M**, Goldman C, Salenius J-P, Schmieder FA, Pilsudski R. Naked plasmid DNA encoding fibroblast growth factor type 1 for the treatment of end-stage unreconstructible lower extremity ischemia: preliminary results of a phase I Trial. *J Vasc Surg*. 2002 May;35(5):930-6. PMID: 12021709
 14. **Bacchetta MD**, Ko W, Girardi LN, Mack CA, Krieger KH, Isom OW, Lee LY. Outcomes of cardiac surgery in nonagenarians: a 10-year experience. *Ann Thorac Surg*. 2003 Apr;75(4):1215-20. PMID: 12683566
 15. Port JL, Kent MS, Korst RJ, **Bacchetta M**, Altorki NK. Thoracic esophageal perforations: a decade of experience. *Ann Thorac Surg*. 2003 Apr;75(4):1071-4. PMID: 12683539
 16. **Bacchetta MD**, Korst RJ, Altorki NK, Port JL, Isom OW, Mack CA. Resection of a symptomatic pericardial cyst using the computer-enhanced da Vinci Surgical System. *Ann Thorac Surg*. 2003 Jun;75(6):1953-5. PMID: 12822644
 17. Lee BS, Eachempati SR, **Bacchetta MD**, Levine MR, Barie PS. Survival after a documented 19-story fall: a case report. *J Trauma*. 2003 Nov;55(5):869-72. PMID: 14608159
 18. Park BJ, **Bacchetta M**, Bains MS, Downey RJ, Flores RJ, Rusch VW, Girardi LN. Surgical management of thoracic malignancies invading the heart or great vessels. *Ann Thorac Surg*. 2004 Sep;78(3):1024-30. PMID: 15337042
 19. **Bacchetta MD**, Girardi LN, Southard EJ, Mack CA, Ko W, Tortolani AJ, Krieger KH, Isom OW, Lee LY. Comparison of open versus bedside percutaneous dilatational tracheostomy in the cardiothoracic surgical patient: outcomes and financial analysis. *Ann Thorac Surg*. 2005 Jun;79(6):1879-85. PMID: 15919277
 20. **Bacchetta MD**, Eachempati SR, Fins JJ, Hydo L, Barie PS. Factors influencing do-not-resuscitate decision-making in a surgical intensive care unit. *J Am Coll Surg*. 2006 Jun;202(6):995-1000. PMID: 16735215
 21. Al-Naamani N, Maarouf OH, Wilt JS, **Bacchetta M**, D'Ovidio F, Sonett JR, Arcasoy SM, Lederer DJ, Nickolas TL, Kawut SM. The modification of diet in renal disease (MDRD) and the prediction of kidney outcomes after lung transplantation. *J Heart Lung Transplant*. 2008 Nov;27(11):1191-7. PMID: 18971090
 22. Iribarne A, Russo MJ, Davies RR, Hong KN, Gelijns AC, **Bacchetta MD**, D'Ovidio F, Arcasoy S, Sonett JR. Despite decreased wait-list times for lung transplantation, lung allocation scores continue to increase. *Chest*. 2009 Apr;135(4):923-928. PMID: 19017874
 23. **Bacchetta MD**, Salemi A, Milla F, Hong MK, Tio F, Zhou Y, Chen R, Southard E, Lee LY, Mack CA, Krieger KH, Isom OW, Ko W, Borer JS, Catanzaro DF. Low-dose spironolactone: effects on artery-to-artery vein grafts and percutaneous coronary intervention sites. *Am J Ther*. May-Jun 2009;16(3):204-14. PMID: 19454859
 24. Wei B, Takayama H, **Bacchetta MD**. Pulmonary lobectomy in a patient with a left ventricular

- assist device. *Ann Thorac Surg*. 2009 Jun;87(6):1934-6. PMID: 19463629
25. Celik MR, Lederer DJ, Wilt J, Eser D, **Bacchetta M**, D'Ovidio F, Sonett JR, Arcasoy SM. Tacrolimus and azathioprine versus cyclosporine and mycophenolate mofetil after lung transplantation: a retrospective cohort study. *J Heart Lung Transplant*. 2009 Jul;28(7):697-703. PMID: 19560698
 26. Lederer DJ, Wilt JS, D'Ovidio F, **Bacchetta MD**, Shah L, Ravichandran S, Lenoir J, Klein B, Sonett JR, Arcasoy SM. Obesity and underweight are associated with an increased risk of death after lung transplantation. *Am J Respir Crit Care Med*. 2009 Nov 1;180(9):887-95. PMID: 19608717 | PMCID: PMC2773915
 27. Dizon JM, Chen K, **Bacchetta M**, Argenziano M, Mancini D, Biviano A, Sonett J, Garan H. A comparison of atrial arrhythmias after heart or double-lung transplantation at a single center: insights into the mechanism of post-operative atrial fibrillation. *J Am Coll Cardiol*. 2009 Nov 24; 54(22):2043-8. PMID: 19926011
 28. Russo MJ, Davies RR, Hong KN, Iribarne A, Kawut S, **Bacchetta M**, D'Ovidio F, Arcasoy S, Sonett JR. Who is the high-risk recipient? Predicting mortality after lung transplantation using pre-transplant risk factors. *J Thorac Cardiovasc Surg*. 2009 Nov;138(5):1234-1238. PMID: 19837222 | PMCID: PMC3073984
 29. George I, Shah JN, **Bacchetta M**, Stewart A. Stentless bioprosthesis in a valved conduit: implications for pulmonary reconstruction. *Ann Thorac Surg*. 2009 Dec;88(6):2022-4. PMID: 19932287
 30. Wei B, Takayama H, **Bacchetta MD**. Urinothorax: An uncommon cause of pleural effusion. *Respiratory Medicine CME*. 2009;2(4):179-180.
 31. Wei B, Steijlen KL, Stewart AS, **Bacchetta MD**. Simultaneous pulmonary embolectomy and aortic root replacement. *Thorac Cardiovasc Surg*. 2009 Dec;57(8):501-3. PMID: 20013631
 32. Russo MJ, Iribarne A, Hong KN, Davies RR, Xydas S, Takayama H, Ibrahimiye A, Gelijns A, **Bacchetta MD**, D'Ovidio F, Arcasoy S, Sonett JR. High lung allocation score is associated with increased morbidity and mortality following transplantation. *Chest*. 2010 Mar;137(3):651-7. PMID: 19820072 | PMCID: PMC2832864
 33. Xydas S, Wei B, Takayama H, Russo M, **Bacchetta M**, Smith CR, Stewart A. Use of carotid-subclavian arterial bypass and thoracic endovascular aortic repair to minimize cerebral ischemia in total aortic arch reconstruction. *J Thorac Cardiovasc Surg*. 2010 Mar;139(3):717-22. PMID: 20080269
 34. Mongero LB, Brodie D, Cunningham J, Ventetuolo C, Kim H, Sylvan E, **Bacchetta MD**. Extracorporeal membrane oxygenation for diffuse alveolar hemorrhage and severe hypoxemic respiratory failure from silicone embolism. *Perfusion*. 2010 Jul;25(4):249-52. PMID: 20566586
 35. Javidfar J, Wang D, Zwischenberger JB, Costa J, Mongero L, Sonett J, **Bacchetta M**. Insertion of bicaval dual lumen ECMO catheter with image guidance. *ASAIO J*. May-Jun 2011; 57(3):203-5. PMID: 21499077

36. Javidfar J, Brodie D, Wang D, Ibrahimiyeh AN, Yang J, Zwischenberger JB, Sonett J, **Bacchetta M**. Use of bicaval dual-lumen catheter for adult venovenous extracorporeal membrane oxygenation. *Ann Thorac Surg*. 2011 Jun;91(6):1763-8. PMID: 21619973
37. **Bacchetta M**, Javidfar J, Sonett J, Kim H, Zwischenberger J, Wang D. Ease of conversion from venovenous ECMO to cardiopulmonary bypass and venoarterial ECMO with a bicaval dual lumen catheter. *ASAIO J*. Jul-Aug 2011; 57(4):283-5. PMID: 21705860
38. Javidfar J, Brodie D, Takayama H, Mongero L, Zwischenberger J, Sonett J, **Bacchetta M**. Safe transport of critically ill adult patients on extracorporeal membrane oxygenation support to a regional ECMO center. *ASAIO J*. Sep-Oct 2011;57(5):421-5. PMID: 21869618
39. Brodie D, **Bacchetta M**. Extracorporeal membrane oxygenation for ARDS in Adults. *N Engl J Med*. 2011 Nov 17;365(20):1905-14. PMID: 22087681
40. Combes A, **Bacchetta M**, Brodie D, Muller T, Pellegrino V. Extracorporeal membrane oxygenation for respiratory failure in adults. *Curr Opin Crit Care*. 2012 Feb;18(1):99-104. PMID: 22186218
41. Brodie D, **Bacchetta M**. Extracorporeal membrane oxygenation for ARDS in Adults – Reply. *N Engl J Med*. 2012;575-576.
42. Javidfar J, Brodie D, Sonett J, **Bacchetta M**. Venovenous extracorporeal membrane oxygenation using a single cannula in patients with pulmonary hypertension and atrial septal defects. *J Thorac Cardiovasc Surg*. 2012 Apr;143(4):982-4. PMID: 22137803
43. Javidfar J, **Bacchetta M**, Yang J, Miller J, D’Ovidio F, Ginsburg ME, Gorenstein LA, Bessler M, Sonett JR. The use of a tailored surgical technique for minimally invasive esophagectomy. *J Thorac Cardiovasc Surg*. 2012 May;143(5):1125-9. PMID: 22500593
44. Javidfar J, Brodie D, Iribarne A, Jurado J, LaVelle M, Brenner K, Arcasoy S, Sonett J, **Bacchetta M**. Extracorporeal membrane oxygenation as a bridge to lung transplantation and recovery. *J Thorac Cardiovasc Surg*. 2012 Sep;144(3):716-21. PMID: 22795457
45. Javidfar J, Brodie D, Costa J, Miller J, Jurrado J, LaVelle M, Newmark A, Takayama H, Sonett JR, **Bacchetta M**. Subclavian artery cannulation for venoarterial extracorporeal membrane oxygenation. *ASAIO J*. Sep-Oct 2012;58(5):494-8. PMID: 22929897
46. Javidfar J, **Bacchetta M**. Bridge to lung transplantation with extracorporeal membrane oxygenation support. *Curr Opin Organ Transplant*. 2012 Oct;17(5):496-502. PMID: 22941324
47. Rosner GF, Green P, **Bacchetta M**, Pearson GD, Marboe CC, Schwartz A. Asymptomatic left ventricular mass: prepare for the worst, hope for the best. *J Am Coll Cardiol*. 2012 Oct 30;60(18):e33. PMID: 23099219 | PMCID: PMC5718191
48. Gallos G, Townsend E, Yim P, Virag L, Zhang Y, Xu D, **Bacchetta M**, Emala CW. Airway epithelium is a predominant source of endogenous airway GABA and contributes to relaxation of airway smooth muscle tone. *Am J Physiol Lung Cell Mol Physiol*. 2013 Feb 1;304(3):L191-7. PMID: 23204068 | PMCID: PMC3567364

49. Wilson KL, Schenarts PJ, **Bacchetta MD**, Rai PR, Nakayama DK. Pediatric trauma experience in a combat support hospital in eastern Afghanistan over 10 Months, 2010 - 2011. *Am Surg*. 2013 Mar;79(3):257-60. PMID: 23461950
50. Havalad V, **Bacchetta M**, Wang DY, Cabreriza SE, Aponte-Patel L, Cheng B, Spotnitz HM. Cardiac pacing: a novel approach to right ventricle failure during pulmonary thromboendarterectomy. *J Thorac Cardiovasc Surg*. 2013 Apr;145(4):1141-1143. PMID: 23321544 | PMCID: PMC6996052
51. Abrams DC, Brodie D, Rosenzweig EB*, Burkart KM, Agerstrand CL, **Bacchetta MD***. Upper-body extracorporeal membrane oxygenation as a strategy in decompensated pulmonary arterial hypertension. *Pulm Circ*. 2013 Apr;3(2):432-5. PMID: 24015346 | PMCID: PMC3757840 *Co-PI
52. Lee DC, Ramirez SA, **Bacchetta M**, Borer JS, Wilson K. Off-pump versus on-pump coronary bypass in octogenarians: comparison of short-term outcomes and long-term survival. *Cardiology*. 2013;125(3):164-9. PMID: 23751867
53. Armstrong HF, Schulze PC, Kato TS, **Bacchetta M**, Thirapatarapong W, Bartels MN. Right ventricular stroke work index as a negative predictor of mortality and initial hospital stay after lung transplantation. *J Heart Lung Transplant*. 2013 Jun;32(6):603-8. PMID: 23566545 | PMCID: PMC4945758
54. Abrams D, Thomashow BT, Burkart K, Agarstrand C, Brenner K, **Bacchetta M***, Brodie D. Pilot study of extracorporeal carbon dioxide removal to facilitate extubation and ambulation in exacerbations of COPD. *Ann Am Thorac Soc*. 2013 Aug;10(4):307-14. PMID: 23952848 *Co-PI
55. Alves C, Chen J-T, Patel N, Abrams D, Figueiredo P, Santos L, Sarmiento A, Paiva JA, **Bacchetta M**, Wilgus M-L, Roncon-Albuquerque R, Brodie D. Extracorporeal membrane oxygenation for refractory acute respiratory distress syndrome in severe malaria. *Malar J*. 2013 Aug 31;12:306. PMID: 24127739 | PMCID: PMC3766204
56. O'Neill JD, Anfang R, Anandappa A, Costa J, Javidfar JJ, Wobma HM, Singh G, Freytes DO, **Bacchetta MD**, Sonett JR, Vunjak-Novakovic G. Decellularization of human and porcine lung tissues for pulmonary tissue engineering. *Ann Thorac Surg*. 2013 Sep;96(3):1046-56. PMID: 23870827 | PMCID: PMC4033908
57. Jurado J, Saqi A, Maxfield R, Newmark A, Lavelle M, **Bacchetta M**, Gorenstein L, D'Ovidio F, Ginsburg ME, Sonett J, Bulman W. The efficacy of EBUS-guided transbronchial needle aspiration for molecular testing in lung adenocarcinoma. *Ann Thorac Surg*. 2013 Oct;96(4):1196-1202. PMID: 23972930
58. Costa J, D'Ovidio F, **Bacchetta M**, LaVelle M, Singh G, Sonett JR. Physician assistant model for lung procurements: A paradigm worth considering. *Ann Thorac Surg*. 2013 Dec;96(6):2033-7. PMID: 24090582
59. Weinberg RL, Bouchard NC, Abrams DC, Dzerba AL, **Bacchetta M**, Burkart KM, Brodie D. Venoarterial extracorporeal membrane oxygenation for the management of massive amlodipine overdose. *Perfusion*. 2014 Jan;29(1):53-6. PMID: 23863493 | PMCID: PMC4277114

60. Rosenzweig EB, Brodie D, Abrams DC, Agastrand CL, **Bacchetta M**. Extracorporeal membrane oxygenation as a novel bridging strategy for acute right heart failure in group 1 pulmonary arterial hypertension. *ASAIO J*. Jan-Feb 2014;60(1):129-33. PMID: 24299971
61. Ali AA, Downey P, Singh G, Qi W, George I, Takayama H, Kirtane A, Krishnan P, Zalewski A, Freed D, Large SR, Ashley EA, Leon MB, **Bacchetta M**, Ali ZA. Rat model of veno-arterial extracorporeal membrane oxygenation. *J Transl Med*. 2014 Feb 7;12:37. PMID: 24507588 | PMCID: PMC3925959
62. Abrams DC, Javidfar J, Farrand E, Mongero LB, Agerstrand CL, Ryan P, Zimmel D, Galuskin K, Morrone TM, Boerem P, **Bacchetta M***, Brodie D. Early mobilization of patients receiving extracorporeal membrane oxygenation: a retrospective cohort study. *Crit Care*. 2014 Feb 27;18(1):R38. PMID: 24571627 | PMCID: PMC4056162 ***Co-PI**
63. Biscotti M, Agerstrand C, Abrams D, Takayama H, Sonett J, Brodie D, **Bacchetta M**. Extracorporeal membrane oxygenation transport after traumatic aortic valve injury. *ASAIO J*. May-Jun 2014;60(3):353-4. PMID: 24658521
64. Agerstrand CL, **Bacchetta MD**, Brodie D. ECMO for adult respiratory failure: current use and evolving applications. *ASAIO J*. May-June 2014;60(3):255-62. PMID: 24625534
65. Armstrong HF, Schulze PC, **Bacchetta M**, Thirapatarapong W, Bartels MN. Impact of pulmonary hypertension on exercise performance in patients with interstitial lung disease undergoing evaluation for lung transplantation. *Respirology*. 2014 Jul;19(5):675-82. PMID: 24797365 | PMCID: PMC4065213
66. Whang W, Patel MR, Iyer V, Gambhir A, Biviano AB, Garan AR, Takayama H, **Bacchetta M**, Naka Y, Jorde UP, Garan H. Epicardial catheter ablation through subxiphoid surgical approach in a patient with implanted left ventricular assist device and cannula-related ventricular tachycardia. *Circ Heart Fail*. 2014 Sep;(5)7:868-9. PMID: 25228322
67. Biscotti M, Singh G, Downey P, **Bacchetta M**. A novel ECMO circuit using a SYNERGY CircuLite Pump in a swine model. *ASAIO J*. Sep-Oct 2014;60(5):519-23. PMID: 25000387
68. Biscotti M, **Bacchetta M**. The "sport model": Extracorporeal membrane oxygenation using the subclavian artery. *Ann Thorac Surg*. 2014 Oct;98(4):1487-9. PMID: 25282228
69. Singer JP, Peterson ER, Snyder ME, Katz PP, Golden JA, D'Ovidio F, **Bacchetta M**, Sonett JR, Kukreja J, Shah L, Robbins H, Van Horn K, Shah RJ, Diamond JM, Wickersham N, Sun L, Hays S, Arcasoy SM, Palmer SM, Ware LB, Christie JD, Lederer DJ. Body composition and mortality after adult lung transplantation in the United States. *Am J Respir Crit Care Med*. 2014 Nov 1;190(9):1012-21. PMID: 25233138 | PMCID: PMC4299586
70. Biscotti M, Yang J, Sonett J, **Bacchetta M**. Comparison of extracorporeal membrane oxygenation versus cardiopulmonary bypass for lung transplantation. *J Thorac Cardiovasc Surg*. 2014 Nov;148(5):2410-5. PMID: 25444203
71. Biscotti M, Vail E, Cook KE, Kachulis B, Rosenzweig EB, **Bacchetta M**. Extracorporeal membrane oxygenation with subclavian artery cannulation in awake patients with pulmonary hypertension.

- ASAIO J. Nov-Dec 2014;60(6):748-50. PMID: 25072554
72. Gutierrez A, Sauler M, Mitchell JM, Siegel MD, Trow TK, **Bacchetta M**, Fares WH. Unresolved pulmonary embolism leading to a diagnosis of pulmonary artery sarcoma. *Heart Lung*. Nov-Dec 2014;43(6):574-6. PMID: 24928184
 73. Biscotti M, Lee A, Basner RC, Agerstrand C, Abrams D, Brodie D, **Bacchetta M**. Hybrid configurations via percutaneous access for extracorporeal membrane oxygenation: a single center experience. *ASAIO J*. Nov-Dec 2014;60(6):635-42. PMID: 25232764
 74. Weinberg A, Miko B, Beck J, **Bacchetta M**, Mongero L. Is it safe to leave an ECMO circuit primed? *Perfusion*. 2015 Jan;30(1):47-9. PMID: 25114019
 75. Agerstrand CL, Burkart KM, Abrams DC, **Bacchetta MD**, Brodie D. Blood conservation in extracorporeal membrane oxygenation for acute respiratory distress syndrome. *Ann Thorac Surg*. 2015 Feb;99(2):590-5. PMID: 25499483
 76. Abrams D, Agerstrand CL, Biscotti M, Burkart KM, **Bacchetta M**, Brodie D. Extracorporeal membrane oxygenation in the management of diffuse alveolar hemorrhage. *ASAIO J*. Mar-Apr 2015;61(2):216–18. PMID: 25485559
 77. Dirnberger D, Fiser R, Harvey C, Lunz D, **Bacchetta M**, Frenckner B, Conrad S, Muller T, Biscotti M. Guidelines for ECMO Transport. ELSO. May 2015.
 78. Biscotti M, Gannon WD, Abrams D, Agerstrand C, Claassen J, Brodie D, **Bacchetta M**. Extracorporeal membrane oxygenation use in patients with traumatic brain injury. *Perfusion*. 2015 Jul;30(5):407-9. PMID: 25313096
 79. Biscotti M, Agerstrand C, Abrams D, Ginsburg M, Sonett J, Mongero L, Takayama H, Brodie D, **Bacchetta M**. One Hundred Transports on Extracorporeal Support to an Extracorporeal Membrane Oxygenation Center. *Ann Thorac Surg*. 2015 Jul;100(1):34-9. PMID: 25912741
 80. Kato TS, Armstrong HF, Schulze PC, Lippel M, Amano A, Farr M, **Bacchetta M**, Bartels MN, Di Tullio MR, Homma S, Mancini D. Left and Right Ventricular Functional Dynamics Determined by Echocardiograms Before and After Lung Transplantation. *Am J Cardiol*. 2015 Aug 15;116(4):652-9. PMID: 26089014 | PMCID: PMC4522196
 81. Kim J, O’Neill J, Dorrello NV, **Bacchetta M**, Vunjak-Novakovic G. Targeted delivery of liquid micro-volumes into the lung. *Proc Natl Acad Sci U S A*. 2015 Sep 15;112(37):11530-5. PMID: 26324893 | PMCID: PMC4577144
 82. Glick D, Dzierba AL, Abrams D, Muir J, Eisenberger A, Diuguid D, Abel E, Agerstrand C, **Bacchetta M**, Brodie D. Clinically suspected heparin-induced thrombocytopenia during extracorporeal membrane oxygenation. *J Crit Care*. 2015 Dec;30(6):1190-4. PMID: 26363901
 83. Singer JP, Diamond JM, Gries CJ, McDonnough J, Blanc PD, Shah R, Dean MY, Hersh B, Wolters PJ, Tokman S, Arcasoy SM, Ramphal K, Greenland JR, Smith N, Heffernan P, Shah L, Srestha P, Golden JA, Blumenthal NP, Huang D, Sonett J, Hays S, Oyster M, Katz PP, Robbins H, Brown M, Leard LE, Kukreja J, **Bacchetta M**, Bush E, D’Ovidio F, Rushefski M, Raza K, Christie JD, Lederer

- DJ. Frailty Phenotypes, Disability, and Outcomes in Adult Candidates for Lung Transplantation. *Am J Respir Crit Care Med*. 2015 Dec 1;192(11):1325-34. PMID: 26258797 | PMCID: PMC4731703
84. Mosca MS, Narotsky DL, Kiao M, Mochari-Greenberger H, Beck J, Mongero L, **Bacchetta M**. Survival following Venovenous Extracorporeal Membrane Oxygenation and Mortality in a Diverse Patient Population. *J Extra Corpor Technol*. 2015 Dec;47(4):217-22. PMID: 26834283 | PMCID: PMC4730164
 85. Biscotti M, Sonett J, **Bacchetta M**. ECMO as bridge to lung transplant. *Thorac Surg Clin*. 2015; 25(1):17-25. PMID: 25430426
 86. Shea NJ, Biscotti M, Singh G, Taubman AB, **Bacchetta M**. A Novel Oxygenator-Right Ventricular Assist Device Circuit Using the SYNERGY Micropump as Right Heart Support in a Swine Model of Pulmonary Hypertension. *IJOER*. 2016 Jan;2(1):136-143.
 87. Moffatt-Bruce S, **Bacchetta M**, Cypel M. Discussion of "Lung Transplantation and concomitant cardiac surgery: Is it ever justified?" *J Thorac Cardiovasc Surg*. 2016 Feb;151(2):566-7. PMID: 26621321.
 88. Sell JL, **Bacchetta M**, Goldfarb SB, Park H, Heffernan PV, Robbins HA, Shah L, Raza K, D'Ovidio F, Sonett JR, Arcasoy SM, Lederer DJ. Short stature and Access to Lung Transplantation in the United States: A Cohort Study. *Am J Respir Crit Care Med*. 2016 Mar 15;193(6):681-8. PMID: 26554631 | PMCID: PMC5440846
 89. Mosca MS, Narotsky DL, Mochari-Greenberger H, Liao M, Mongero L, Beck J, **Bacchetta M**. Duration of conventional cardiopulmonary resuscitation prior to extracorporeal cardiopulmonary resuscitation and survival among adult cardiac arrest patients. *Perfusion*. 2016 Apr;31(3):200-6. PMID: 26081930
 90. Abrams D, Baldwin MR, Champion M, Agerstrand C, Eisenberger A, **Bacchetta M**, Brodie D. Thrombocytopenia and extracorporeal membrane oxygenation in adults with acute respiratory failure: a cohort study. *Intensive Care Med*. 2016 May;42(5):844-52. PMID: 27007099 | PMCID: PMC5407307
 91. Singh G, Tsukashita M, Biscotti M, Costa J, Lambert D, **Bacchetta M**, Takayama H. Heart Procurement from a Donor on Venovenous ECMO Support. *ASAIO J*. May-Jun 2016;62(3):e24-6. PMID: 26536537
 92. Der Nigoghossian C, Dzierba AL, Etheridge J, Roberts R, Muir J, Brodie D, Shumaker G, **Bacchetta M**, Ruthazer R, Devlin JW. Effect of Extracorporeal Membrane Oxygenation Use on Sedative Requirements in Patients with Severe Acute Respiratory Distress Syndrome. *Pharmacotherapy*. 2016 Jun;36(6):607-16. PMID: 27130442
 93. Narotsky DL, Mosca MS, Mochari-Greenberger H, Beck J, Liao M, Mongero L, **Bacchetta M**. Short-term and longer-term survival after veno-arterial extracorporeal membrane oxygenation in an adult patient population: does older age matter? *Perfusion*. 2016 Jul;31(5):366-75. PMID: 26438527

94. Agerstrand C, Abrams D, Biscotti M, Morez L, Berman-Rosenzweig E, D'Alton M, Brodie D, **Bacchetta M**. Extracorporeal Membrane Oxygenation for Cardiopulmonary Failure during Pregnancy and Postpartum. *Ann Thorac Surg*. 2016 Sep;102(3):774-779. PMID: 27154158
95. Rosenzweig EB, Biscotti M, Cleary K, Smiley R, **Bacchetta MD**. Chronic thromboembolic pulmonary hypertension, pregnancy, and a pulmonary endarterectomy: a rare challenge. *Pulm Circ*. 2016 Sep;6(3):384-8. PMID: 27683616 | PMCID: PMC5019092
96. Rosenzweig EB, Chicotka S, **Bacchetta M**. Right ventricular assist device use in ventricular failure due to pulmonary arterial hypertension: Lessons learned. *J Heart Lung Transplant*. 2016 Oct; 35(10):1272-1274. PMID: 27569986
97. Dzierba AL, Brodie D, **Bacchetta M**, Muir J, Wasson L, Colabraro M, Gannon W, Connolly K, Biscotti M, Rietdijk W, Moitra V, Bakker J. Ketamine use in sedation management in patients receiving extracorporeal membrane oxygenation. *Intensive Care Med*. 2016 Nov;42(11):1822-1823. PMID: 27620291
98. Armstrong HF, Lederer DJ, **Bacchetta M**, Bartels MN. Primary graft dysfunction: Long-term physical function outcomes among lung transplant recipients. *Heart Lung*. Nov-Dec 2016; 45(6):544-549. PMID: 27593492.
99. O'Neill JD, Guenthart BA, Kim J, Chicotka S, Queen D, Fung K, Marboe C, Romanov A, Huang SXL, Chen Y-W, Snoeck H-W, **Bacchetta M***, Vunjak-Novakovic G. Cross-circulation for extracorporeal support and recovery of the lung. *Nat. Biomed. Eng*. 1, 0037 (2017):1-15.
***Co-corresponding author & PI.**
100. Diamond JM, Arcasoy S, McDonnough JA, Sonett JR, **Bacchetta M**, D'Ovidio F, Cantu E 3rd, Bermudez CA, McBurnie A, Rushefski M, Kalman LH, Oyster M, D'Errico C, Suzuki Y, Giles JT, Ferrante A, Lippel M, Singh G, Lederer DJ, Christie JD; Lung Transplant Body Composition Study. Adipose Gene Expression Profile Changes with Lung Allograft Reperfusion. *Am J Transplant*. 2017 Jan;17(1):239-245. PMID: 27421969 | PMCID: PMC5195853
101. Agerstrand C, Brodie D, **Bacchetta M**. Reply to "Differences Between Venovenous and Venoaerterial Extracorporeal Membrane Oxygenation in Pregnancies". *Ann Thorac Surg*. 2017 Jan;103(1):361-362. PMID: 28007241
102. Salna, M, **Bacchetta M**. Extracorporeal lung support. *Curr Opin Anaesthesiol*. 2017 Feb; 30(1):50-57. PMID: 27792078
103. Salna M, van Boxtel B, Rosenzweig EB, **Bacchetta M**. Modified Potts shunt in an Adult with Idiopathic Pulmonary Arterial Hypertension. *Ann Am Thor Soc*. 2017 Apr;14(4):607-609. PMID: 28362533
104. Meng M-L, **Bacchetta MD**, Spellman J. Anesthetic management of the patient with extracorporeal membrane oxygenator support. *Best Prac Res Clin Anaesthesiol*. 2017 Jun; 31(2);227-236. PMID: 29110795.
105. Diamond JM, Cantu E, Porteous MK, Suzuki Y, Meyer KC, Lederer DJ, Milewski RK, Arcasoy S, D'Ovidio F, **Bacchetta M**, Sonett JR, Singh G, Costa J, Tobias JW, Rodriguez H, Van Deerlin VM,

- Olthoff KM, Shaked A, Chang B-L, Christie JD for the Clinical Trials in Organ Transplantation Investigators (CTOT)-03. Peripheral Blood Gene Expression Changes Associated with Primary Graft Dysfunction after Lung Transplantation. *Am J Transplant*. 2017 Jul;17(7):1770-1777. PMID: 28117940 | PMCID: PMC5489369.
106. Chicotka S, Rosenzweig EB, Brodie D, **Bacchetta M**. The “Central Sport Model”: Extracorporeal Membrane Oxygenation Using the Innominate Artery for Smaller Patients as Bridge to Lung Transplantation. *ASAIO J*. Jul/Aug 2017;63(4):e39-e44. PMID: 27556148
107. Biscotti M, Gannon W, Agerstrand C, Abrams D, Sonett J, Brodie D, **Bacchetta M**. Awake Extracorporeal Membrane Oxygenation as a Bridge to Transplant: A Nine-year experience. *Ann Thorac Surg*. 2017 Aug;104(2):412-419. PMID: 28242078.
108. Baldwin MR, Singer JP, Huang D, Sell J, Gonzalez WC, Pollack LR, Maurer MS, D'Ovidio FF, **Bacchetta M**, Sonett JR, Arcasoy SM, Shah L, Robbins H, Hays SR, Kukreja J, Greenland JR, Shah RJ, Leard L, Morrell M, Gries C, Katz PP, Christie JD, Diamond JM, Lederer DJ. Refining Low Physical Activity Measurement Improves Frailty Assessment in Advanced Lung Disease and Survivors of Critical Illness. *Ann Am Thoracic Soc*. 2017 Aug;14(8):1270-1279. PMID: 28398076 | PMCID: PMC5566272
109. Dorrello NV, Guenthart B, O'Neill J, Kim J, Cunningham K, Chen Y-W, Biscotti M, Swayne T, Wobma H, Huang S, Snoeck H-W, **Bacchetta M**, Vunjak-Novakovic G. Functional vascularized lung grafts for lung bioengineering. *Sci Adv*. 2017 Aug;3(8): e1700521. PMID: 28875163 | PMCID: PMC5576878.
110. Zhao J, Wang D, Ballard-Croft C, Wang J, Hsu P-L, **Bacchetta M**, Zwischenberger JB. Hybrid Extracorporeal Membrane Oxgenation Using Avalon Elite Double Lumen Cannula Ensures Adequate Heart/Brain Oxygen Supply. *Ann Thorac Surg*. 2017 Sep;104(3):847-853. PMID: 28499654
111. Kim J, Guenthart B, O'Neill JD, Dorrello NV, **Bacchetta M**, Vunjak-Novakovic G. Controlled delivery and minimally invasive imaging of stem cells in the lung. *Sci Rep*. 2017 Oct 12;7(1):13082. PMID: 29026127 | PMCID: PMC5638808.
112. Downey P, Middlesworth W, **Bacchetta M**, Sonett J. Recurrent and congenital tracheoesophageal fistula in adults. *Eur J Cardiothorac Surg*. 2017 Dec 1;52(6):1218-1222. PMID: 28575191.
113. Rosenzweig EB, Abrams D, Biscotti M, Kerstein D, Drassinower D, Brodie D, **Bacchetta M**. Eisenmenger Syndrome and Pregnancy: Novel ECMO Configuration as a Bridge to Delivery and Recovery Utilizing a Multidisciplinary Team. *ASAIO J*. Jan/Feb 2018;64(1):e8-e10. PMID: 28195885
114. Agrawal A, Shah R, **Bacchetta MD**, Talwar A. Successful pulmonary thromboendarterectomy in a patient with sickle cell disease and associated resolution of a leg ulcer. *Lung India*. Jan-Feb 2018; 35(1):73-77. PMID: 29319041 | PMCID: PMC5760875
115. Salna M, Chicotka S, Biscotti M 3rd, Agerstrand C, Liou P, Ginsburg M, Oommen R, Sonett JR, Brodie D, **Bacchetta M**. Management of Surge in Extracorporeal Membrane Oxygenation

- Transport. *Ann Thorac Surg*. 2018 Feb;105(2):528-534. PMID: 29174776.
116. McLaughlin V, **Bacchetta M**, Badesh D, Benza R, Burger C, Chin K, Frantz R, Frost A, Hemnes A, Kim NH, Rosenzweig EB, Rubin L. Update on pulmonary hypertension research: proceedings from a meeting of experts. *Curr Med Res Opin*. 2018 Feb;34(2):263-273. PMID: 29132217
 117. Abrams D, **Bacchetta M**, Brodie D. When the momentum has gone: what will be the role of extracorporeal lung support in the future? *Curr Opin Crit Care*. 2018 Feb;24(1):23-28. PMID: 29140963
 118. Chicotka S, Burkhoff D, Dickstein ML, **Bacchetta M**. Extracorporeal Oxygenation for End-Stage Interstitial Lung Disease with Secondary Pulmonary Hypertension at Rest and Exercise: Insights from Simulation Modeling. *ASAIO J*. Mar/Apr 2018;64(2):203-210. PMID: 28863039
 119. Salna M, Chicotka S, Biscotti M, Agerstrand C, Liou P, Brodie D, **Bacchetta M**. Morbid obesity is not a contraindication to transport on extracorporeal support. *Eur J Cardiothorac Surg*. 2018 Apr 1;53(4):793-798. PMID: 29253111
 120. Shu CA, Grigg C, Chiuhan C, Garofano RF, Patel V, Hernandez S, Negri T, Sacher AG, Smith-Marrone S, Stoopler M, Gainor JF, Awad MM, D'Ovidio F, Sonett JR, **Bacchetta M**, Saqi A, Rizvi NA. Neoadjuvant atezolizumab + chemotherapy in resectable non-small cell lung cancer (NSCLC). *J Clin Onc*. 2018;36(15-suppl):8532.
 121. Benvenuto LJ, Anderson DR, Kim HP, Hook JL, Shah L, Robbins HY, D'Ovidio F, **Bacchetta M**, Sonett JR, Arcasoy SM. Geographic disparities in donor lung supply and lung transplant waitlist outcomes: A cohort study. *Am J Transplant*. 2018 Jun;18(6):1471-1480. PMID: 29266733.
 122. Gannon W, Lederer DJ, Biscotti M, Javaid A, Patel N, Brodie D, **Bacchetta M**, Baldwin M. Outcomes and mortality prediction model of critically ill adults with acute respiratory failure and interstitial lung disease. *Chest*. 2018 Jun;153(6):1387-1395. PMID: 29353024 | PMCID: PMC6026289
 123. Abrams D, Garan AR, Abelbary A, **Bacchetta M**, Bartlett RH, Beck J, Belohlavek J, Chen Y-S, Fan E, Ferguson ND, Fowles J, Fraser J, Gong M, Hassan IF, Hodgson C, Hou X, Hryniewicz K, Ichiba S, Jakobleff WA, Lorusso R, Maclaren G, McGuinness S, Mueller T, Park PK, Peek G, Pellegrino V, Price S, Rosenzweig EB, Sakamoto T, Salazar L, Schmidt M, Slutsky AS, Spaulding C, Takayama H, Takeda K, Vuylsteke A, Combes A, Brodie D. Position paper the organization of ECMO Programs for cardiac failure in adults. *Intensive Care Med*. 2018 Jun;44(6):717-729. PMID: 29450594
 124. Singer JP, Diamond JM, Anderson MR, Katz PP, Covinsky K, Oyster M, Blue T, Soong A, Kalman L, Shrestha P, Arcasoy SM, Greenland JR, Shah L, Kukreja J, Blumenthal NP, Easthausen I, Golden J, McBurnie A, Cantu E, Sonett J, Hays S, Robbins H, Raza K, **Bacchetta M**, Shah RJ, D'Ovidio F, Venado A, Christi JD, Lederer DJ. Frailty phenotypes and mortality after lung transplantation: a prospective cohort study. *Am J Transplant*. 2018 Aug;18(8):1995-2004. PMID: 29667786 | PMCID: PMC6105397
 125. Mohamed MAT, Maraqa T, **Bacchetta MD**, McShane M, Wilson KL. The Feasibility of Venovenous ECMO at Role-2 Facilities in Austere Military Environments. *Mil Medicine*. 2018 Sep 1;183(9-10):e644-e648. PMID: 29447407

126. Meng M-L, Fu A, Westhoff C, **Bacchetta M**, Rosenzweig EB, Landau R, Smiley R. Eisenmenger Syndrome in Pregnancy: When is it time for ECMO? A Case Report. *Anesthesia & Analgesia Prac.* 2018 Nov 15;11(10):270-272. PMID: 29894348
127. Chicotka S, Pedroso FE, Agerstrand CL, Rosenzweig EB, Abrams D, Benson T, Layton A, Burkhoff D, Brodie D, **Bacchetta MD**. Increasing Opportunity for Lung Transplantation in Interstitial Lung Disease with Pulmonary Hypertension. *Ann Thorac Surg.* 2018 Dec;106(6):1812-1819. PMID: 29852149
128. Guenthart BA, Chen Y-W, **Bacchetta M**. New insights and therapeutic targets: Lung injury and disease. *J Thorac Cardiovasc Surg.* 2019 Jan;157(1):416-420. PMID: 30557958
129. Guenthart BA, O'Neill JD, Kim J, Fung K, Vunjak-Novakovic G, **Bacchetta M**. Cell replacement in human lung bioengineering. *J Heart Lung Transplant.* 2019 Feb;38(2):215-224. PMID: 30529200 | PMCID: PMC6351169
130. Finn MT, Sethi S, Rambod M, **Bacchetta M**, Rosenzweig EB, Takeda K, Kertane A, Parikh S, Green P. A unique case of venothromboembolism treated with the AngioVac system. *J Am Coll Cardiol.* 2019 Mar;73(9)(Suppl 1):2174.
131. Snyder ME, Finlayson MO, Connors TJ, Dogra P, Senda T, Bush E, Carpenter D, Marboe C, Benvenuto L, Shah L, Robbins H, Hook JL, Sykes M, D'Ovidio F, **Bacchetta M**, Sonett JR, Lederer DJ, Arcasoy S, Sims PA, Farber DL. Generation and persistence of human tissue-resident memory T cells in lung transplantation. *Sci Immunol.* 2019 Mar 8;4(33). PMID: 30850393 | PMCID: PMC6435356
132. Tipograf Y, Liou P, Oommen R, Agerstrand C, Abrams D, Brodie D, **Bacchetta M**. A decade of interfacility extracorporeal membrane oxygenation transport. *J Thorac Cardiovasc Surg.* 2019 Apr;157(4):1696-1706. PMID: 30655061
133. Tipograf Y, Salna M, Minko E, Grogan EL, Agerstrand C, Sonett J, Brodie D, **Bacchetta M**. Outcomes of Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplantation. *Ann Thorac Surgery.* 2019 May;107(5):1456-1463. PMID: 30790550
134. Guenthart B, O'Neill JD, Kim J, Queen D, Chicotka S, Fung K, Simpson M, Donocoff R, Salna M, Marboe CC, Cunningham K, Halligan SP, Womba HM, Hozain AE, Romanov A, Vunjak-Novakovic G, **Bacchetta M**. Regeneration of severely damaged lungs using an interventional cross-circulation platform. *Nat. Comm.* 2019 May 7;10(1):1985. PMID: 31064987 | PMCID: PMC6504972
135. Rosenzweig EB, Ankola A, Krishnan U, Middlesworth W, Bacha E, **Bacchetta M**. A novel unidirectional-valved shunt approach for end-stage pulmonary arterial hypertension: Early experience in adolescents and adults. *J Thorac Cardiovasc Surg.* 2019 Nov 14;S0022-5223(19)32771-0. PMID: 31839227
136. Anderson MR, Udupa J, Edwin E, Diamond JM, Singer JP, Kukreja J, Hays SR, Greenland JR, Ferrante A, Lippel M, Blue T, McBurnie A, Oyster M, Kalman L, Rushefski M, Wu C, Pednekar G, Liu W, Arcasoy S, Sonett J, D'Ovidio F, **Bacchetta M**, Newell JD, Torigian D, Cantu E, Farber DL,

- Giles JT, Tong Y, Palmer S, Ware LB, Hancock WW, Christie JD, Lederer DJ. Adipose tissue quantification and primary graft dysfunction after lung transplantation: The Lung Transplantation Body Composition study. *J Heart Lung Transplant*. 2019 Dec;38(12):1246-1256. PMID: 31474492 | PMCID: PMC6883162
137. Rosenzweig EB, Gannon W, Madahar P, Agerstrand C, Abrams D, Liou P, Brodie D, **Bacchetta M**. Extracorporeal life support bridge for pulmonary hypertension: A high-volume single-center experience. *J Heart Lung Transplant*. 2019 Dec;38(12):1275-1285. PMID: 31582284
 138. Gannon WD, Stokes JW, **Bacchetta M**. Should patients with advanced lung disease be offered ECMO as a bridge to transplant if they have not yet been listed for transplant? Yes. Rebuttal for Point-counterpoint Debate Series. *Chest*. 2020;158(1):40-41. PMID: 32654713
 139. Verkerk BS, Dzierba AL, Muir J, Der-Nigoghossian C, Brodie D, **Bacchetta M**, Rietdijk W, Bakker J. Opioids and benzodiazepine requirements in obese adult patients receiving extracorporeal membrane oxygenation. *Ann Pharmacother*. 2020 Feb;54(2):144-150. PMID: 31452377
 140. Tipograf Y, Gannon W, Nealy NM, Hozain A, Ukita R, War Hoover M, McMaster WG, Nesbitt JC, Shah AS, **Bacchetta M**. A Novel Dual-lumen Bicaval Cannula for Venovenous Extracorporeal Membrane Oxygenation. *Ann Thorac Surg*. 2020 Apr;109(4):1047-1053. PMID: 31863760
 141. Hozain AE, Tipograf Y, Pinezich MR, Cunningham KM, Donocoff R, Queen D, Fung K, Marboe CC, Guenthart BA, O'Neill JD, Vunjak-Novakovic G, **Bacchetta M**. Multiday maintenance of extracorporeal lungs using a cross-circulation with conscious swine. *J Thorac Cardiovasc Surg*. 2020 Apr;159(4):1640-53. PMID: 31761338 | PMCID: PMC7094131
 142. Ukita R, Tipograf Y, Tumen A, Donocoff R, Stokes JW, Foley NM, Talackine J, Cardwell NL, Rosenzweig EB, Cook KE, **Bacchetta M**. Left Pulmonary Artery Ligation and Chronic Pulmonary Artery Banding Model for Inducing Right Ventricular-Pulmonary Hypertension in Sheep. *ASAIO J*. May 29, 2020 (Accepted) doi: 10.1097/MAT.0000000000001197
 143. Salna M, Tipograf Y, Liou P, Chicotka S, Biscotti M, Agerstrand C, Abrams D, Brodie D, **Bacchetta M**. Tracheostomy is Safe during Extracorporeal Membrane Oxygenation Support. *ASAIO J*. 2020 Jun;66(6):652-656. PMID: 31425269
 144. Shu CA, Gainor JF, Awad MM, Chiuzan C, Grigg CM, Pabani A, Garofano RF, Stoopler MB, Cheng SK, White A, Lanuti M, D'Ovidio F, **Bacchetta M**, Sonett JR, Saqi A, Rizvi NA. Neoadjuvant atezolizumab and chemotherapy in patients with resectable non-small-cell lung cancer: an open label, multicentre, single-arm, phase 2 trial. *Lancet Oncol*. 2020 Jun;21(6):786-795. PMID: 32386568
 145. Gannon WD, Tipograf Y, Stokes JW, Craig L, Semler MW, Rice TW, Shah AS, **Bacchetta M**. Rapid Training in Extracorporeal Membrane Oxygenation for a Large Health System. *ATS Scholar*. June 22, 2020 (Accepted) <https://doi.org/10.34197/ats-scholar.2020-0028IN>
 146. Gannon WD, Craig L, Netzel L, Mauldin C, Troutt A, War Hoover M, Tipograf Y, Hogrefe K, Rice T, Shah A, **Bacchetta M**. Curriculum to Introduce Critical Care Nurses to Extracorporeal Membrane Oxygenation. *Am J Crit Care*. 2020 Jul 1;29(4):262-269. PMID: 32607573

147. Hozain AE, O'Neill JD, Pinezich MR, Tipograf Y, Donocoff R, Cunningham KM, Tumen A, Fung K, Ukita R, Simpson MT, Reimer JA, Ruiz EC, Queen D, Stokes JW, Cardwell NL, Talackine J, Kim J, Snoeck H-W, Chen Y-W, Romanov A, Marboe CC, Griesemer AD, Guenthart BA, **Bacchetta M**, **Vunjak-Novakovic G**. * Xenogeneic cross-circulation for extracorporeal recovery of injured human lungs. *Nat Med*. 2020 Jul;26(7):1102-1113. PMID: 32661401.
***Co-principal Authors.**
148. Gannon WD, Stokes JW, **Bacchetta M**. POINT: Should Patients with Advanced Lung Disease be Offered ECMO as a Bridge to Transplant If They Have Not Yet Been Listed for Lung Transplant? Yes. Point-counterpoint Debate Series. *Chest*. 2020 Jul;158(1):35-38. PMID: 32654711
149. Ziogas IA, Johnson WR, Matsuoka LK, Rauf MA, Thurm C, Hall M, **Bacchetta M**, Godown J, Alexopoulos SP. Extracorporeal Membrane Oxygenation in Pediatric Liver Transplantation: A Multi-Center Linked Database Analysis and Systemic Review of the Literature. *Transplantation*. 2020 Aug 13. doi: 10.1097/TP.0000000000003414. Online ahead of print. PMID: 32804800
150. Wadowski BJ, **Bacchetta M**, Kon ZN. Beware the Deus Ex Machina of COVID-19. *Ann Thorac Surg*. 2020 Aug 29;S0003-4975(20)31424-7. PMID: 32871108
151. Stokes JW, Gannon WD, Tipograf Y, Ukita R, War Hoover M, Rice TD, Shah AS, **Bacchetta M**. Disposable Component Selection in Extracorporeal Life Support: A Cost Analysis. *ASAIO J*. (Accepted)
152. Gafford J, Galloway K, Webster S, Emerson M, Riojas K, Ropella D, Tumen A, Maldonado F, **Bacchetta M**, Barth EJ, Herrell SD, Webster III RJ. The Vanderbilt Open-Source Ventilator: From Napkin Sketch to Ready to Save Lives in 3 Weeks. *IEEE Robotics and Automation Magazine*. (Accepted)
153. Gannon WD, Stokes JW, Rice T, Semler MW, Armistead L, Sherril WH, **Bacchetta M**, Casey JD. Bleeding, Thromboembolism and Clinical Outcomes in Venovenous Extracorporeal Membrane Oxygenation. *Critical Care Explorations*. 2020. (Accepted)

CHAPTERS

1. Fins JJ and **Bacchetta MD**. The physician-assisted suicide and euthanasia debate: an annotated bibliography of representative articles. *J Clin Ethics*. Winter 1994;5(4):329-40. PMID: 7749180
2. Fins JJ and **Bacchetta MD**. Framing the physician-assisted suicide and voluntary active euthanasia debate: the role of deontology, consequentialism, and clinical pragmatism. *J Am Geriatr Soc*. 1995 May;43(5):563-8 PMID: 7730541
3. Reprinted in Caring for the Dying: Identification and Promotion of Physician Competency (Collection of Relevant Reprints) American Board of Internal Medicine. Philadelphia, 1996.
4. Fins JJ, **Bacchetta MD**, Miller FG. In Pragmatic Ethics (edited by Glen McGee). Vanderbilt University Press. 1999. (Part of the Classics in American Philosophy Series)
5. Miller FG, Fins JJ, **Bacchetta MD**. Clinical Pragmatism: John Dewey and Clinical Ethics. Frontiers in Bioethics: Essays dedicated to John C. Fletcher (edited by Franklin G. Miller). University

Publishing Group, Hagerstown, Maryland. 2000.

6. Barie, PS, **Bacchetta MD**, Fins JJ, Eachempati SR. Research in the Intensive Care Unit: Ethical and Methodological Issues. In Surgical Research: (Souba WW, Wilmore DW, eds). Academic Press, New York. 2001. pp:137-154.
7. Agerstrand C, Mongero L, Abrams D, **Bacchetta M**, Brodie D. Chapter 11: Crises in ECLS. In Extracorporeal Life Support for Patients with ARDS: (Schmidt G, editor). Springer. ISBN 978-1-4939-3005-0. 1st ed. 2016, XIII, 269 p.59 illus., 45 illus. in color.
8. Stokes JW, Gannon WD, **Bacchetta M**, Biscotti M. Extracorporeal Membrane Oxygenation for Patients with Traumatic Injury and Respiratory Failure. In Difficult Decisions in Trauma Surgery (Editors: Wilson K and Rogers SO). Springer. Pending publication.

ABSTRACTS/POSTER PRESENTATIONS

1. Wright R, **Bacchetta MD**, Ishitani MB, Bodily S, Caldwell SH, Stevenson WC, McCullough CS, Pruett TR, Dickson RC. HBV Liver Patients Achieve Quality of Life Comparable to HCV Liver Transplant Patients. Abstract and Poster for Meeting of AGA, AASLD at Digestive Disease Week, May 1995.
2. Suzman M, **Bacchetta MD**, DeRubertis B, Grillo JA, Barie PS. Safety and Efficacy of Once-Daily Aminoglycoside Therapy in Surgical Patients. Abstract and Poster for Meeting of Surgical Infection Society, April 1998.
3. **Bacchetta MD**, Fins JJ, Miller FG. Pragmatism in the Clinic: The Role of Decision and Financial Analysis in Hospital Based Ethics and End of Life Care. National Conference on the Ethics of Health Care Organizations. A New National Agenda: Organization Ethics in Health Care. University of Virginia, September 25-26, 1998.
4. Richter G. and **Bacchetta MD**. The Need for a New Classification of Interventions into the Human Genome in Regard to Ethical Analysis and Evaluation. The American Society for Bioethics and Humanities. Houston, TX, November 18-22, 1998.
5. **Bacchetta MD**, Hydo LJ, Heller DP, Eachempati SR, Barie PS. Factors Influencing Do-Not-Resuscitate (DNR) Decision Making in a Surgical Intensive Care Unit. Poster Presented. Society of Critical Care Medicine. 28th Educational & Scientific Symposium. San Francisco, CA, January 23-27, 1999.
6. **Bacchetta MD**, Ko W, Samy S, Isom OW, Hamawy A, Salemi A, Catanzaro DF. Gene Expression in Intimal Hyperplasia. 4th Annual Meeting of the American Society of Gene Therapy. Seattle, WA, 2001.
7. **Bacchetta MD**, Samy S, Ko W, Isom OW, Hamawy A, Salemi A, Phillips A, Catanzaro DF. Intimal hyperplasia in arterialized venous grafts in a canine model. American Heart Association Myocardial Ischemia Scientific Conference on Molecular, Integrative and Clinical Approaches to Myocardial Ischemia. Seattle, WA, August 2001.

8. **Bacchetta MD**, Moore MR, Levine DM, Parker TS, Gordon BR, Isom OW, Krieger KH, Girardi LN, Ko W, Saal SD. Elevated serum interleukin-6, has prognostic significance for postoperative outcome in patients undergoing cardiothoracic surgery. 51st Annual Scientific Session. American College of Cardiology, March 2002.
9. **Bacchetta MD**, Zhou, Y, Chen R, Samy SA, Salemi A, Hamawy A, Hu L, Krieger KH, Isom OW, Ko W, Catanzaro DF. DNA Microarray analysis of the progressive arterialization and intimal hyperplasia of venous grafts in a canine model. 51st Annual Scientific Session. American College of Cardiology, March 2002.
10. **Bacchetta M**, Aronis M, Janssen S, Uberoi R, Ko W. Off-pump CABG has lower troponin release and less morbidity than on-pump CABG. *Chest*. 2002;122:124S. Abstract presentation at the Chest 2002 Conference. San Diego, CA, November 2002.
11. Ko W, **Bacchetta M**, Uberoi R. Off-pump coronary artery bypass surgery in octogenarian patients. 13th World Congress of the International Society of Cardio-Thoracic Surgeons. San Diego, CA, November 2003.
12. Milla F, **Bacchetta MD**, Hong MK, Zhou Y, Chen R, Yu F, Southard E, Lee LY, Ko W, Mack CA, Krieger KH, Isom OW, Catanzaro DF. Low-dose spironolactone promotes adaptive arterialization of vein grafts but does not prevent restenosis of angioplastied coronary arteries. 6th Annual Conference on Arteriosclerosis, Thrombosis, and Vascular Biology. AHA. Washington, D.C., April 2005.
13. Biviano A, **Bacchetta MD**, Dizon J, Whang W, Cormilas J, Garan H, Wilt J, Sonett JR, Ehlert FA. American College of Cardiology 56th Annual Scientific Session. New Orleans, LA, March 2007.
14. Comas G, **Bacchetta MD**, Glithero K, Naseem T, Tizebucki A, Borczuk A, Ginsburg M. Endobronchial sclerosis of pulmonary parenchyma in rats. *Chest* 2007. Chicago, IL, October 2007.
15. Russo MJ, Davies RR, Hong KN, Moskowitz AJ, Gelijns AC, **Bacchetta M**, D'Ovidio F, Arcasoy SM, Sonett JR. Despite decreasing wait times for lung transplantation, lung allocation score continues to increase. ISHLT 28th Meeting and Scientific Sessions, April 2008.
16. **Bacchetta MD**, Biviano A, Ehlert FA, Garan H, Dizon J, Whang W, Cormilas J, Hickey K, Wilt J, D'Ovidio F, Arcasoy S, Sonett JR. Arrhythmias in Lung Transplantation. ISHLT 28th Meeting and Scientific Sessions, April 2008.
17. Russo MJ, Davies RR, Hong, KN, Kawut S, **Bacchetta M**, D'Ovidio F, Moskowitz A, Arcasoy S, Gelijns A, Sonett J. Who is the high-risk recipient? Predicting mortality after lung transplantation using pre-transplant risk factors. Western Thoracic Surgical Association. 34th Annual Meeting, June 2008.
18. Russo MJ, Hong KN, Iribarne A, Davies RR, Xydas S, **Bacchetta M**, D'Ovidio F, Arcasoy SM, Gelijns AC, Sonett JR. Elevated lung allocation score is associated with decreased survival and increased complications after lung transplantation. International Society of Heart and Lung Transplantation Scientific Sessions, Paris, France, 2009.
19. Wei B, Xydas S, **Bacchetta M**, Stewart A. Use of Subclavian-Carotid Bypass and Thoracic Stent

- Grafting to Minimize Cerebral Ischemia in Total Aortic Arch Reconstructions. American Association for Thoracic Surgery. 89th Annual Meeting. Boston, MA, May 2009.
20. Dizon JM, Chen K, **Bacchetta M**, Argenziano M, Mancini D, Biviano A, Whang W, Ehlert F, Coromilas J, Sonett J, Umann T, Naka Y, Garan H. A comparison of atrial arrhythmias after heart or double-lung transplantation at a single center: Insights into the mechanism of post-operative atrial fibrillation. Heart Rhythm 2009. Boston, MA, May 2009.
 21. Russo M, Hong K, Iribarne, A, Davies R, **Bacchetta M**, Gelijins A, D'Ovidio F, Arcasoy S, Sonett J. Post-lung transplantation for high-risk recipients is superior at high volume centers. Southern Thoracic Surgical Association 56th Annual Meeting. Marco Island, FL, November 2009.
 22. Ibrahimiye A, Singh G, Kim H, Iribarne A, Sladen R, Sonett J, **Bacchetta M**. Near-Infrared spectroscopy in lung transplant patients: correlation with invasive hemodynamic measurements. 2010 International Society of Heart and Lung Transplantation Scientific Sessions. Chicago, IL, April 2010.
 23. Wilson KL, **Bacchetta MD**, Vercruyssen GA, Danner OK, Matthews LR, Lynn Weaver WM, Robinson DW. The Surgical Management of Improvised Explosive Devices: Guidelines for a Complex Problem. Duke University, 2010.
 24. Ibrahimiye AN, Kim H, MD, Singh G, Brodie HD, Cunningham J, Burkart K, Sonett J, **Bacchetta MD**. Safe transport of critically ill patients on Extracorporeal Membrane Oxygenation support. ASAIO. Baltimore, MD, 2010.
 25. Ibrahimiye AN, Singh G, Lederer D, Wilt J, Arsasoy S, D'Ovidio F, Sonett J, **Bacchetta MD**. Retrospective analysis of veno-venous versus veno-arterial ECMO for treatment of post lung transplantation primary graft dysfunction. ASAIO. Baltimore, MD, 2010.
 26. Bouchard NC, Weinberg RL, Burkart KM, **Bacchetta MD**, Dzierba A, Story D, Livshits Z, Brodie D, Mulcare M, Kuah S, Farmer B, Prosser JM, Rao RB, Hoffman RS. Prolonged resuscitation for massive amlodipine overdose with maximal vasopressors, intralipids and VenoArtrial Extracorporeal Membrane (VA ECMO). NAACT. Denver, CO, 2010.
 27. Javidfar J, Singh G, Miller J, Yang J, Sonett J, Sladen R, **Bacchetta M**. Correlation between Near-infrared Spectroscopy and invasive hemodynamic measurements in lung transplant patients. American Society of Transplant Surgeons, 2011.
 28. Javidfar J, Miller J, Lederer D, Sonett J, Brodie HD, **Bacchetta M**. Extracorporeal Membrane Oxygenation as a Bridge to Transplantation and Recovery. American Thoracic Society International Meeting. Denver, CO, May 2011.
 29. Singh G, Javidfar J, Costa J, Guarrera JV, Miller J, Henry S, Jallerat Q, Freytes DO, Vnjak-Novakovic G, Sonett JR, **Bacchetta MD**. Perfusion/Decellularization of large animal lungs. ISHLT, 2011.
 30. Javidfar J, Takayama H, Costa J, Singh G, Miller J, Mongero L, Sonett J, **Bacchetta M**. Axillary artery cannulation for VA ECMO. ASAIO. Washington, D.C., 2011.
 31. Baldwin MR, **Bacchetta M**, Brodie HD, Brenner K, Agerstrand CL, Burkart KM, Bulman WA.

- Veno-venous extracorporeal membrane oxygenation with bi-caval dual lumen internal jugular catheter permits safe transport of adult patients with severe acute respiratory distress syndrome. American Thoracic Society International Meeting. Denver, CO, May 2011.
32. Brenner K, Baldwin MR, Agerstrand CL, Burkart KM, Bulman WA, **Bacchetta MD**, Brodie D. Improvements in dynamic compliance with a very low tidal volume ventilation strategy and extracorporeal membrane oxygenation for severe acute respiratory distress syndrome. American Thoracic Society International Meeting. Denver, CO, May 2011.
 33. Chen JT, Wilgus ML, **Bacchetta MD**, Jacoby SC, Brodie D, Patel N. A woman with severe ARDS secondary to Plasmodium vivax and ovale successfully bridged to recovery with venovenous extracorporeal membrane oxygenation (ECMO). American Thoracic Society International Meeting. Denver, CO, May 2011.
 34. Koeckert MS, Naka Y, LaVelle M, Miller J, Jorde UP, **Bacchetta MD**, Takayama H. The role of venoarterial extracorporeal membrane oxygenation (VA-ECMO) in the ventricular assist device era. International Society for Rotary Blood Pumps. Louisville, KY, 2011.
 35. Koeckert MS, Naka Y, LaVelle M, Miller J, Jorde UP, **Bacchetta MD**, Takayama H. Impella LP 2.5 for left ventricular unloading during VA-ECMO support. International Society for Rotary Blood Pumps. Louisville, KY, 2011.
 36. Jurado J, Bulman W, **Bacchetta M**, Sonett J. The Efficacy of EBUS-guided Transbronchial Aspirate in Molecular Testing in Adenocarcinoma. Southern Thoracic Surgical Association 2012. Naples, FL, November 2012.
 37. Abrams D, **Bacchetta M**, Brodie D, Berman-Rozenzweig E. Awake Upper Body Extracorporeal Membrane Oxygenation as a Novel and Emerging Strategy in Group 1 Pulmonary Arterial Hypertension. Chest, 2012.
 38. Jurado J, Brodie D, Sonett J, **Bacchetta M**. The Efficacy of Operating Veno-venous ECMO at Lower Flow Rates. Southern Thoracic Surgical Association. Naples, FL, November 2012.
 39. Abrams D, Brodie D, Berman-Rosenzweig E, **Bacchetta MD**. Extracorporeal Membrane Oxygenation as a Novel and Emerging Bridging Strategy in Idiopathic Pulmonary Hypertension(IPAH)/Associated Pulmonary Hypertension(APAH). 5th World Symposium on Pulmonary Hypertension. Nice, France, 2013.
 40. Lederer DJ, Sonett JR, Philip NA, Larkin M, Peterson ER, Desai A, Sanyal S, Shah L, Robbins HA, Raza K, Reilly G, D'Ovidio F, **Bacchetta M**, Arcasoy S. Frailty and Early Mortality after Lung Transplantation: Preliminary Results. ISHLT 33rd Annual Meeting and Scientific Sessions. Montreal, Canada, April 26, 2013.
 41. Kato T, Armstrong H, Schultze P, Lippel M, Farr M, **Bacchetta M**, Bartels M, DiTuillo M, Homma S, Mancini D. Changes in left and right ventricular function before and after lung transplantation: Serial echocardiographic assessment. ISHLT 34rd Annual Meeting and Scientific Sessions. San Diego, CA, April 2014.
 42. Dickstein M, **Bacchetta M**. The Impact of VA ECMO on LV function. ISHLT 34rd Annual Meeting

and Scientific Sessions. San Diego, CA, April 2014.

43. Costa J, Sonett J, Singh G, **Bacchetta M**, LaVelle M, Shah L, Lederer D, Robbins H, Arcasoy S, D'Ovidio F. Lung transplantation using allografts from donation after cardiac death. ISHLT 34th Annual Meeting and Scientific Sessions, San Diego, CA, April 2014.
44. Biscotti M, Yang J, Sonett J, **Bacchetta M**. Comparison of Extracorporeal Membrane Oxygenation versus Cardiopulmonary Bypass for Lung Transplantation. AATS Annual Meeting. Toronto, Canada, April 2014.
45. Biscotti M, Mongero L, Abrams D, Agerstrand C, Sonett J, Ginsburg M, Brodie D, **Bacchetta M**. One hundred Safe Transports on Extracorporeal Life Support to a Regional ECMO Center. Southern Thoracic Surgical Association, November 8, 2014.
46. Dorrello NV, **Bacchetta M**, O'Neill J, Vunjak-Novakovic GV. Lung decellularization in a rodent veno-arterial extracorporeal membrane oxygenation (ECMO) model. 2015 Critical Care Congress. Phoenix, AZ, January 2015.
47. Biscotti M, Berman-Rosenzweig E, Takayama H, Naka Y, **Bacchetta M**. Partial Pulmonary-Right Heart Oxygenator (PROxy) Support System: A Novel Strategy for Management of Severe Pulmonary Hypertension. ISHLT. Nice, France, April 2015.
48. Biscotti M, Yang J, Sonett J, **Bacchetta M**. Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplantation Based on Intent to Treat: A Single-Center Experience. ISHLT. Nice, France, April 2015.
49. Singer JP, Diamond JM, Gries CJ, McDonnough J, Blanc PD, Shah R, Dean MY, Hersch B, Dolan J, Arcasoy S, Greenland JR, Smith N, Patterson S, Shah L, Golden JA, Blumenthal N, Sonett J, Hays S, Oyster M, D'Ovidio F, Katz PP, Robbins H, Brown M, Leard LE, Kukreja J, **Bacchetta M**, Rushefski M, Raza K, Christie JD, Lederer DJ. Frailty is Associated With Pre-Operative Delisting and Death in Lung Transplant Candidates. ISHLT. Nice, France, April 2015.
50. Chen JT, Yip N, Bulman W, Berman-Rosenzweig E, **Bacchetta M**, Abrams D, Brodie D. Endobronchial Ultrasound for Diagnosis of Massive Pulmonary Embolism in an Intubated Patient Requiring Extracorporeal Membrane Oxygenation. American Thoracic Society. Denver, CO, May 2015.
51. Costa J, Singh G, LaVelle M, Sreekanth S, **Bacchetta M**, Sonett JR, D'Ovidio F. Donors with a prior history of cardiac surgery are a viable source of lung allografts. 23rd European Conference on General Thoracic Surgery. Lisbon, Portugal, June 2015.
52. Shea N, Biscotti M, Singh G, Taubmann A, **Bacchetta M**. A Novel OxyRVAD Circuit Using the SYNERGY Micropump as Right Heart Support in a Swine Model of Pulmonary Hypertension. ASAIO. Chicago, IL, June 27, 2015.
53. Berman-Rosenzweig E, Sladen R, **Bacchetta M**. Implementation of a post-operative protocol for management CTEPH patients following PTE in the CTICU. National Proceedings: CTEPH 2016. La Jolla, CA, February 2016.

54. Downey P, Middlesworth W, **Bacchetta M**, Ginsburg M, Sonett J. Congenital Tracheo-esophageal Fistula in Adults. European Society of Thoracic Surgeons. Naples, Italy, May 30, 2016.
55. Demarest CT, Ukita R, Do-Nguyen C, Lai A, Bandecca A, Carleton N, **Bacchetta M**, Cook KE. Clot formation and functional changes in the CardioHelp Oxygenator over time. American Society of Artificial Internal Organs (ASAIO), 62nd Annual Conference. San Francisco, CA, June 17, 2016.
56. Demarest CT, Ukita R, Do-Nguyen C, Lai A, Bandecca A, Carleton N, **Bacchetta M**, Cook KE. Determination of the optimal nitric oxide dose for oxygenator sweep gas. American Society of Artificial Internal Organs (ASAIO), 62nd Annual Conference. San Francisco, CA, June 17, 2016.
57. Singh G, Lamber D, Vandenberg J, **Bacchetta M**, Gorenstein L, Ginsburg M, Sonett J. Non Myasthenic Autoimmune Diseases Associated with Thymoma — A Single Institutional Experience. 7th International Thymic Malignancy Interest Group Annual Meeting. San Francisco, CA, September 15-17, 2016.
58. Guenthart B, Kim J, O'Neill JD, Dorrello NV, **Bacchetta M**, Vunjak-Novakovic G. A Stem Cell-Seeded Porous Hydrogel Patch for Treatment of Alveolar Air Leaks. Biomedical Engineering Society. Minneapolis, MN, October 5-8, 2016.
59. Kim J, O'Neill JD, Dorrello NV, Guenthart B, **Bacchetta M**, Vunjak-Novakovic G. Controlled Delivery of Therapeutic Cells and Microparticles into Target Lung Airways. Biomedical Engineering Society. Minneapolis, MN, October 5-8, 2016.
60. Kim J, O'Neill J, Guenthart B, Dorrello, N, **Bacchetta M**, Vunjak-Novakovic G. Minimally Invasive In-situ imaging of Intra-tracheally Administered Therapeutic Stem Cells in the Lung. OSA Biophotonics Congress: Optics in the Life Sciences. April 5, 2017.
61. Guenthart B, O'Neill JD, Kim J, Vunjak-Novakovic G, **Bacchetta M**. Advanced Theranostics in *Ex Vivo* Lung Bioengineering. ISHLT. April 2017.
62. Guenthart B, O'Neill JD, Kim J, Vunjak-Novakovic G, **Bacchetta M**. Targeted Cell Replacement in Human Lung Bioengineering. AATS. May 1, 2017.
63. Kim J, O'Neill JD, Guenthart B, **Bacchetta M**, Vunjak-Novakovic. Minimally invasive delivery and imaging of therapeutic stem cells in the lung. BMES/FDA Frontiers in Medical Devices Conference. College Park, Maryland, May 16-18, 2017.
64. Kim J, Guenthart B, O'Neill JD, Ma S, Cheerharan M, **Bacchetta M**, Vunjak-Novakovic. Machine Vision Guided Spatially Targeted Drug Delivery in Lungs. BMES 2017 Annual Meeting. Phoenix, AZ, October 2017.
65. Parikh K, Torres A, Green P, **Bacchetta M**, Rosenzweig EB, Kirtane A. BPA in recurrent CTEPH after initially successful PTE. National Proceedings of CTEPH. November 9, 2017.
66. Synder ME, Connors T, Benvenuto L, Shah L, Robbins H, Hook J, D'Ovidio F, **Bacchetta M**, Sonett JR, Arcasoy S, Farber DL. Impact of Primary Graft Dysfunction on Allograft T Cell Chimerism Following Lung Transplantation. ISHLT. Nice, France, April 11, 2018.

67. Tipograf Y, Guenthart BA, Hozain A, Berman Rosenzweig E, **Bacchetta M**. Central VA ECMO for Severe Pulmonary arterial Hypertension: A Novel Cannulation Strategy. ISHLT. Nice, France, April 12, 2018.
68. Guenthart BA, O'Neill J, Hozain A, Tipograf Y, Vunjak-Novakovic G, **Bacchetta M**. Cell Recovery and Regeneration in Severely Damaged Lungs on Cross-Circulation. ISHLT. Nice, France, April 12, 2018.
69. Benvenuto L, Anderson DR, Kim HP, Hook JL, Shah L, Robbins H, D'Ovidio F, **Bacchetta M**, Sonett JR, Arcasoy SM. Geographic Disparities in Donor Lung Availability Impact Waitlist Outcome in Lung Transplant Candidates: A Retrospective Cohort Study. ISHLT. Nice, France, April 12, 2018.
70. Chicotka S, Liou P, Tipograf Y, Garan R, Shames S, Rosenzweig EB, Benson T, Burkhoff D, **Bacchetta M**. Exercise response to veno-arterial ECMO in pulmonary hypertension. AATS. San Diego, CA, April 29, 2018.
71. Demarest CT, Skoog DJ, **Bacchetta M**, Cook KE. *In vitro* resistance and gas transfer properties of the pulmonary assist device. AATS 98th Annual Meeting. San Diego, CA, April 2018.
72. O'Neill JD, Guenthart BA, Hozain, A, Vunjak-Novakovic G, **Bacchetta M**. Strategies for removal and replacement of pulmonary epithelium in extracorporeal lungs on cross-circulation support. AATS. San Diego, CA, May 1, 2018.
73. Tipograf Y, Liou P, **Bacchetta M**, Agerstrand C. Interfacility transport of patients requiring Extracorporeal Membrane Oxygenation support: Single center model and experience. AATS. San Diego, CA, May 1, 2018.
74. Rudym D, Pham T, Dzierba A, Agerstrand C, Abrams D, Louh I, **Bacchetta M**, Brodie D. Morbidity and Mortality in Extremely Obese Patients with Acute Respiratory Distress Syndrome Receiving Extracorporeal Membrane Oxygenation. American Thoracic Society. May 18, 2018.
75. Kim J, O'Neill J, Dorrello NV, Hozain A, Pinezich M, **Bacchetta M**, Vunjak-Novakovic G. Image-Guided Selective Replacement of Airway Epithelium for Donor Lung Regeneration. BMES. Atlanta, GA, October 17-20, 2018.
76. Parikh K, Rosenzweig EB, Kirtane AJ, Sethi S, XXX, **Bacchetta M**, XXX Karpaliotis D. BPA in Patients with High Risk vs Post Initially Successful PTE. TCT. San Diego, CA, September 21, 2018.
77. Sethi S, Green P, Kirtane AJ, Rosenzweig EB, **Bacchetta M**, Fall K, XXX, Torres AJ, Karpaliotis D, Parikh K, Maehara A. Feasibility of Chronic Total Occlusion Recanalization During Balloon Pulmonary Angioplasty. TCT. San Diego, CA, September 22, 2018.
78. Rudym D, Benvenuto L, Kim H, Shah L, Aversa M, Robbins H, Hook J, D'Ovidio F, **Bacchetta M**, Sonett J, Arcasoy S. Morbidity and Mortality in Hospitalized versus Outpatient Lung Transplant Recipients. International Society of Heart and Lung Transplantation. Orlando, FL, April 4, 2019.
79. Rosenzweig EB, Gannon W, Agerstrand C, Abrams D, Brodie D, **Bacchetta MD**. Medical and Surgical Management of ECLS as Bridge to Recovery and Transplantation for Pulmonary Hypertension: A Large Single Center Experience. International Society of Heart and Lung

- Transplantation. Orlando, FL, April 6, 2019.
80. Hozain A, Tipograf Y, O'Neill JD, Guenthart B, Pinezich M, Vunjak-Novakovic G, **Bacchetta M**. Normothermic maintenance of extracorporeal lungs for 4 days using cross-circulation with a conscious swine host. AATS. Toronto, Canada, May 2019.
***Recipient of the 2019 C. Walton Lillehei Award**
 81. Kim J, O'Neill J, Guenthart B, Hozain A, Tipograf Y, Pinezich M, **Bacchetta M**, Vunjak-Novakovic G. Donor Lung Regeneration Through Selective Replacement of Damaged Airway Epithelium. ATS. Dallas, TX, May 20, 2019.
***Recipient of the 2019 Science and Innovation Center Abstract Award**
 82. Tipograf Y, Gannon W, McMaster W, Foley NM, War Hoover M, **Bacchetta M**. Initial experience using a new single-site dual-lumen bicaval cannula for venovenous extracorporeal membrane oxygenation. EuroELSO. Barcelona, Spain, April 11, 2019.
 83. Tipograf Y, Gannon W, ...**Bacchetta M**. A Standardized Approach to ECMO Cannulation and Training. ASAIO. San Francisco, CA, June 28, 2019.
 84. Ukita R, Tipograf Y, Foley NM, Donocoff R, Rosenzweig EB, Cook K, **Bacchetta M**. Left Pulmonary Artery Ligation and Progressive Adjustable Pulmonary Artery Banding for Induction of Pulmonary Hypertension in Large Sheep. AATS Mechanical Support for Heart and Lung Symposium. Houston, TX, September 20-21, 2019.
 85. Pinezich M, Hozain A, Tipograf Y, O'Neill J, Guenthart B, Cunningham K, Donocoff R, Kim J, **Bacchetta M**, Vunjak-Novakovic G. Extracorporeal Bioengineering of the Lung Using a Cross-Circulation Bioreactor. BMES. Philadelphia, PA, October 16-19, 2019.
 86. Dubois, R, Shu C, XX XX D'Ovidio, **Bacchetta M**, Sonett JS. Surgical Outcomes of Combined Neoadjuvant Atezolizumab and Chemotherapy in Resectable Non-Small Cell Lung Cancer. STSA 66th Annual Meeting. Marco Island, FL, November 2019.
 87. Ukita R, Tumen A, Stokes J, Tipograf Y, Donocof R, Rosenzweig EB, Cook K, **Bacchetta M**. Determining the optimal mode of cardiopulmonary support for right heart recovery: the effects of veno-venous configuration. STS/EATS Latin America Cardiovascular Surgery Conference. Cancun, Mexico, November 22-24, 2019.
 88. Hozain A, O'Neill J, Pinezich M, Tipograf Y, Cunningham K, Liou P, Simpson M, Donocoff R, Reimer J, Tumen A, Fedoriv I, Fung K, Guenthart B, Lee M, Griesemer A, Vunjak-Novakovic G, **Bacchetta M**. Cross-circulation for normothermic Perfusion of extracorporeal livers. American Society of Transplant Surgeons. Miami, FL, January 9-12, 2020.
 89. Ukita R, Tipograf Y, Foley NM, Donocoff R, Berman-Rosenzweig E, Cook KE, **Bacchetta M**. Left Pulmonary Artery Ligation and Progressive and Adjustable Pulmonary Artery Banding for Induction of Pulmonary Hypertension in Large Sheep. AATS Mechanical Support for the Heart and Lung Symposium. Houston, TX, February 14-15, 2020. **Recipient of Best Scientific Poster**
 90. Hozain A, Tipograf Y, Pinezich M, O'Neill J, Vunjak-Novakovic G, **Bacchetta M**. Therapeutic Strategies Enabled in Extracorporeal Lungs on Multi-day Cross-Circulation Support. AATS. April

27, 2020.

91. Giannis Y, ... **Bacchetta M**, Alexopoulos SP. The utilization of extracorporeal membrane oxygenation in pediatric liver transplantation. 2020 ILTS Joint International Joint Congress of the ILTS, ELITA and LICAGE. Istanbul, Turkey, May 6, 2020. **Recipient of Travel Award*
92. Tumen A, Ukita R, Stokes JW, Alexopoulos SP, **Bacchetta M**. Cross-Circulation for Multivisceral Support and Extracorporeal Liver Perfusion. ASAIO, 66th Annual Conference. Chicago, IL, June 10-13, 2020.
93. McKinney MM, Finnie K, Ukita R, Talackine J, Pinelli C, **Bacchetta M**, Jones CP. Truperella pyogenes-associated Surgical Site Infection in Dorset Sheep (*Ovis aries*). American Association for Laboratory Animal Science 71st Annual Meeting. (Virtual: COVID-related). October 25, 2020.

INVITED LECTURES

1. Critical Care in a War Zone: Lessons from the Iraq War. Critical Care Grand Rounds, Columbia University Medical Center. New York, NY, March 2008.
2. Trauma Surgery in Iraq. Surefire Antiterrorism Conference 2008. New York, NY, May 2008.
3. Mini-ECMO: Implications for Respiratory Support in Critically Ill Patients. NYPH/Columbia 5th Annual Nurse's Symposium. New York, NY, October 2009.
4. Alternative Strategies for Non-ventilator Support for Lung Injury and Pulmonary Thromboendarterectomy for Chronic Thromboembolic Pulmonary Hypertension. Winthrop University Hospital. Mineola, NY, November 2009.
5. Patient Cases in the CTICU. Tissue Oxygenation (StO₂): Guiding Resuscitation Decisions, A Seminar for Trauma, Critical Care, & Emergency Department Physicians. New York, NY, February 2010.
6. ECMO in the Postoperative Cardiothoracic Surgery Patient. Greater New York Hospital Association Symposium on Postoperative Cardiac Care. New York Academy of Medicine, March 12, 2010.
7. Role of ECMO in Cardiogenic Shock. CATCH-UP: Cutting Edge Advances in Percutaneous and Surgically Applied Cardiovascular Device Technology. Columbia University College of Physicians & Surgeons. New York, NY, April 8, 2010.
8. Respiratory Management in ARDS and ECMO. First International Congress on ECMO Therapy. Harrisburg, PA, May 26, 2010.
9. Novel H1N1 Influenza in the intensive care unit and ECMO. First International Congress on ECMO Therapy. Harrisburg, PA, May 26, 2010.
10. Panel discussion with FDA, ASAIO, and invited lecturers regarding regulatory issues related to ECMO. First International Congress on ECMO Therapy. Harrisburg, PA, May 26, 2010.

11. Results, pearls, and pitfalls in double lumen catheter insertion in ECLS. Toronto General Hospital, University of Toronto. Toronto, Canada, July 16, 2010.
12. Use of VV ECMO in adults with Cystic Fibrosis: Can we avoid deconditioning? 21st Annual ELSO Conference in conjunction with the AmSECT Pediatric Perfusion Conference. St. Petersburg, FL, October 2, 2010.
13. Lung Volume Reduction Surgery for Emphysema. The 7th Annual Thoracic Symposium: Advances in Treatment of Lung Cancer and Benign Thoracic Disease. New York Hospital Queens. New York, NY, November 9, 2010.
14. Advanced Support and ECMO for Respiratory Failure. AATS. Philadelphia, PA, May 7, 2011.
15. The Role of Venovenous ECMO in Lung Transplantation. The International Conference on ECMO. Paris, France, June 30, 2011.
16. Thoracic Surgical Skills for Combat Surgery. American Association for Thoracic Surgery 92nd Annual Meeting. San Francisco, CA, April 28, 2012.
17. How to start a VV ECMO Program. Euro-ELSO (Extracorporeal Life Support Organization): 1st Congress. Rome, Italy, May 12, 2012.
18. Bleeding on ECMO: Causes and management. Euro-ELSO (Extracorporeal Life Support Organization): 1st Congress. Rome, Italy, May 14, 2012.
19. Ambulatory ECMO. American College of Cardiovascular Perfusion. 34th Annual Seminar. Los Angeles, CA, January 26, 2013.
20. Cannulation and anticoagulation for Extracorporeal Membrane Oxygenation. STS University Courses. The Society of Thoracic Surgeons: 49th Annual Meeting. Los Angeles, CA, January 30, 2013.
21. Left ventricular venting to unload the left ventricle during ECMO – When and How? Euro ELSO (Extracorporeal Life Support Organization) 2013. Stockholm, Sweden, May 10, 2013.
22. Right ventricular failure/infarction – weaning strategies with iNO, Sildenafil and Iloprost? Euro ELSO (Extracorporeal Life Support Organization). Stockholm, Sweden, May 10, 2013.
23. Pulmonary hypertension: Surgical considerations and approaches to treatment. STS Symposium: Mechanical Circulatory Support for Advanced Cardiopulmonary Disease. Chicago, IL, September 20, 2013.
24. ECMO in the Trauma Patient: When is it indicated and when is it not? ELSO. Philadelphia, PA, September 22, 2013.
25. Long Range ECMO/ECLS Transport: Local, Regional, and International. STS. Orlando, FL, January 25, 2014.
26. ECMO for Lung Transplantation: Who, When & How. EuroELSO 2014. Paris, France, May 24,

- 2014.
27. STS ECMO Symposium: ECMO for Adult Heart and Lung Support. May 29-30, 2014.
 28. ECMO: Current Applications. NSLIJ 5th Annual Arthur Beil Department of Surgery and CTS Grand Rounds. Manhasset, NY, June 4, 2014.
 29. ECMO for Lung Transplantation: Who, When & How? American College of Surgeons. San Francisco, CA, October 27, 2014.
 30. Treatment of Acute Exacerbations of ILD with ECMO: Unconventional or Unreasonable? Chest. Austin, TX, October 29, 2014.
 31. Strategies for Pulmonary Failure. STS/AATS Tech Con 2015. STS 51st Annual Meeting. San Diego, CA, January 26, 2015.
 32. ECMO to Salvage Otherwise Fatal Massive PE. American College of Cardiology. San Diego, CA, March 16, 2015.
 33. Weaning & Decannulation in ECMO. ELSO Course in Adult Critical Care. Houston, TX, April 18, 2015.
 34. Venous-arterial ECMO. ELSO Course in Adult Critical Care. Houston, TX, April 18, 2015.
 35. What can engineering do for End Stage Lung Disease. National Academy of Engineering – Regional Symposium. New York, NY, April 22, 2015.
 36. Challenging cases: When the right heart misbehaves. CATCH UP: Heart failure, Devices, and Interventions. New York, NY, April 24, 2015.
 37. Hub and Spoke Systems and Transport. American Association for Thoracic Surgery 95th Annual Meeting. Seattle, WA, April 25, 2015.
 38. Outcomes of ECMO for Respiratory Failure. American Association for Thoracic Surgery 95th Annual Meeting. Seattle, WA, April 25, 2015.
 39. Weaning Strategies for VV ECMO. Co-Chair Session IV. ASAIO 61st Annual Conference, June 24, 2015. Chicago, IL.
 40. Co-Chair Session. Pulmonary 2 – ECMO Simulation & Physiologic Modeling pulmonary and right heart failure. ASAIO 61st Annual Conference, June 25, 2015. Chicago, IL.
 41. Co-Chair Session. Pulmonary 5 – Practical / Clinical Applications of ECCO2R & ECMO. ASAIO 61st Annual Conference, June 25, 2015. Chicago, IL.
 42. Chronic Thromboembolic Pulmonary Hypertension (CTEPH): Frequency and Approaches to Management. Transcatheter Cardiovascular Therapeutics (TCT) 2015. San Francisco, CA, October 11, 2015.

43. Management of Chronic Thromboembolic Pulmonary Hypertension. Grand Rounds for Department of Medicine. Saint Barnabas Medical Center. Livingston, NJ, October 21, 2015.
44. Lung Repair, Regeneration and Replacement. 13th Hallym-Columbia-Weill Cornell-NYP International Symposium. Seoul, South Korea, September 30, 2016.
45. ECMO – A Primer on Current Devices and Configurations. Transcatheter Cardiovascular Therapeutics (TCT). Washington, D.C., October 30, 2016.
46. Surgical Therapy for CTEPH – Does it work? Transcatheter Cardiovascular Therapeutics (TCT). Washington, D.C., October 30, 2016.
47. Surgical Pulmonary Embolectomy for Pulmonary Emboli. Transcatheter Cardiovascular Therapeutics (TCT). Washington, D.C., October 30, 2016.
48. ECLS Transportation. Society of Thoracic Surgeons – ELSO Management Symposium. Tampa Bay, FL, March 10–12, 2017.
49. Patient Management for Venovenous ECMO. Society of Thoracic Surgeons – ELSO Management Symposium. Tampa Bay, FL, March 10-12, 2017.
50. Pushing the Limits with ECMO in Trauma for the Civilian and Military Population. Adult ECMO Symposium, University of Pennsylvania. Philadelphia, PA, March 31, 2017.
51. Cannulation Strategies for Cardiac and Respiratory Support. Adult ECMO Symposium, University of Pennsylvania. Philadelphia, PA, March 31, 2017.
52. ECMO BTT for Lung Transplantation: Cannulation and Configuration (Understanding the How and Why). American Association for Thoracic Surgery. Boston, MA, April 29, 2017.
53. The Use of ECMO in Trauma. American Association for Thoracic Surgery. Boston, MA, May 2, 2017.
54. Keynote Address: ECMO as a Bridge to Lung Transplant. University of Minnesota ECMO Symposium: Advanced Management of the Failing Lung or Heart. Minneapolis, MN, October 6, 2017.
55. ECMO Transport. University of Minnesota ECMO Symposium: Advanced Management of the Failing Lung or Heart. Minneapolis, MN, October 6, 2017.
56. Surgical Therapy for Chronic Thromboembolic Pulmonary Hypertension. Grand Rounds for Lenox Hill Hospital. New York, NY, October 18, 2017.
57. RV Advanced Circulatory Support. US Research Day for Pulmonary Hypertension. New York, NY, December 2, 2017.
58. Bioengineering of the lung. Columbia Engineering in Medicine Research Symposium. Columbia University School of Engineering. New York, NY, February 22, 2018.
59. Cross circulation ECMO for Organ Recovery, Biohybrid lung, & New Devices. (Plenary Session).

- AATS Mechanical Circulatory Support Symposium. Houston, TX, March 8, 2018.
60. Weaning from ECLS: When & How? (for Duane Davis, MD). AATS Mechanical Circulatory Support Symposium. Houston, TX, March 8, 2018.
 61. Uncommon Life Saving Indications for ECLS (Trauma, Hypothermia, Airway Obstruction). AATS Mechanical Circulatory Support Symposium. Houston, TX, March 8, 2018.
 62. ECMO Transport Program: Design and Conquer. American Association for Thoracic Surgery. San Diego, CA, April 28, 2018.
 63. Indications and Contraindications for VV ECMO: Scoring Systems, Outcomes, When is Managing pCO₂ Sufficient. American Association for Thoracic Surgery. April 29, 2018.
 64. New Indications for ECMO in Non-ARDS Respiratory Failure Patients. University of Pennsylvania Symposium on Adult ECMO. May 11, 2018.
 65. ECMO and Trauma. University of Pennsylvania Symposium on Adult ECMO. May 11, 2018.
 66. America, The Land of Opportunities. European ELSO Annual Meeting. Prague, CZ, May 25, 2018.
 67. ECMO for Critical Pulmonary Hypertension. European ELSO Annual Meeting 2018. Prague, CZ, May 25, 2018.
 68. Lung Transplantation Bridge to Transplant: Pro. (Pro vs. Con Debate). European ELSO Annual Meeting 2018. Prague, CZ, May 25, 2018.
 69. When and how to trach an ECMO patient. ELSO Annual Meeting. Scottsdale, AZ, September 15, 2018.
 70. Cross Circulation ECMO for organ recovery. ELSO Annual Meeting. Scottsdale, AZ, September 15, 2018.
 71. Management of Pulmonary Embolism. American College of Surgeons. Boston, MA, October 22, 2018.
 72. Moderator: Extracorporeal Membrane Oxygenation (ECMO) in the Care of the Critically Ill Surgical Patient. American College of Surgeons. Boston, MA, October 24, 2018.
 73. Cross Circulation for Organ Recovery, Biohybrid Lungs and New Devices for End Stage Lung Disease. Vanderbilt Institute for Surgery and Engineering (VISE) Seminar. January 24, 2019.
 74. Surgical Approaches to Pulmonary Hypertension. Cardiology Update: New Therapies, Technologies, and Best Practices. Sponsored by Vanderbilt Heart. February 15, 2019.
 75. Organ Recovery and Transplantation in Animal Research. Biomedical Research Awareness Day (BRAD) Lecture. Sponsored by AMA and Vanderbilt University. Nashville, TN, April 18, 2019.
 76. Transport of the ECLS Patient: How I Do It. American Association of Thoracic Surgery. Toronto,

Canada, May 7, 2019.

77. Long-term VV ECMO Support and Defining Futility. Society of Thoracic Surgeons. New Orleans, LA, January 27, 2020.
78. Moderator for Session: Pushing the Boundaries: Novel Indications for ECLS. American Association for Thoracic Surgery - Mechanical Support for the Heart and Lung Symposium: New Devices and Techniques. Houston, TX, February 14-15, 2020.
79. Remote ECLS Cannulation and Transportation. American Association for Thoracic Surgery - Mechanical Support for the Heart and Lung Symposium: New Devices and Techniques. Houston, TX, February 14-15, 2020.
80. Cross Circulation for Extended Support of the Ex Vivo Lung. American Association for Thoracic Surgery - Mechanical Support for the Heart and Lung Symposium: New Devices and Techniques. Houston, TX, February 14-15, 2020.
81. New Pumps, Membranes and Catheters. American Association for Thoracic Surgery - Mechanical Support for the Heart and Lung Symposium: New Devices and Techniques. Houston, TX, February 14-15, 2020.
82. Right Ventricular Assist Device for Temporary Cardiopulmonary Support (CardioDyme). Transcatheter Cardiovascular Therapeutics (TCT) 2020. San Francisco, CA (Remote recorded September 14, 2020).