# CURRICULUM VITAE

Bartley P. Griffith, M.D., FACS, FRCS

The Thomas E. and Alice Marie Hales

Distinguished Professor in Transplantation

Professor of Surgery with Tenure

University of Maryland School of Medicine

Founder of Breethe, Inc.

Updated: June 8, 2022

Personal Information

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| **Business Address** | Division of Cardiac Surgery  110 S. Paca Street, 7th Floor  Baltimore, MD 21201 |
| **Business Phone** | 410-328-5842 |
| **Business Fax** | 410-328-2750 |
| **e-mail** | [bgriffith@som.umaryland.edu](mailto:bgriffith@som.umaryland.edu) |

Education

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| --- | --- | --- |
| B.S. Biology | Bucknell University | 1970 |
| M.D. Medicine | Jefferson Medical College  (Sidney Kimmel Medical College) | 1974 |

Post Graduate Education

University of Pittsburgh School of Medicine, Pittsburgh, PA

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| --- | --- |
| Intern in Surgery | 1974-1975 |
| Resident in General & Cardiothoracic Surgery | 7/1975 to 7/1977 |
| Research Fellow | 7/1977 to 7/1978 |
| Resident in General & Cardiothoracic Surgery | 7/1978 to 12/1979 |
| Chief Resident in Cardiothoracic Surgery | 12/1979 to 6/1981 |

Certifications

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| --- | --- |
| Diplomat, American Board of Thoracic Surgery  Recertification No. 3984 | 2012-2023 |
| Diplomat, American Board of Thoracic Surgery  Recertification No. 3984 | 2002-2013 |
| Diplomat, American Board of Thoracic Surgery  Recertification No. 3984 | 1992-2003 |
| Diplomat, American Board of Thoracic Surgery  Recertification No. 3984 | 1983-1992 |
| Diplomat, American Board of Thoracic Surgery  Recertification No. 3984 | 2021-2033 |
| Diplomat, American Board of Surgery  Certification No. 27932 | 1982 |

Medical Licensures

|  |  |
| --- | --- |
| Commonwealth of Pennsylvania | 1975 |
| State of Maryland | 2001 |

Employment History

University of Pittsburgh School of Medicine, Pittsburgh, PA

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| --- | --- |
| Assistant Professor of Surgery | 6/l981 - 6/l986 |
| Associate Professor of Surgery | 7/l986 - 5/l988 |
| Professor of Surgery | 6/l988 - 11/2001 |
| The Henry T. Bahnson Professor of Surgery | 1990 - 2001 |
| Chief, Division of Cardiothoracic Surgery | 6/1990 – 11/2001 |
| Director, McGowan Center for Organ Development | 6/1992 - 7/2001 |
| Vice Chair, Department of Surgery | 6/1996 - 11/2001 |
| Medical Director, Mcgowan Center for Regenerative Medicine | 7/2001 - 11/2001 |

University of Maryland School of Medicine, Baltimore, MD

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| --- | --- |
| Professor of Surgery with Tenure | 11/2001 - present |
| Chief, Division of Cardiac Surgery | 11/2001 - 6/2012 |
| Director, Cardiopulmonary Transplantation | 11/ 2001 - 5/2013 |
| Director, Cardiopulmonary Transplantation | 6/2017 – 1/2020 |
| Director, Cardiothoracic Residency Program | 11/2001 – 09/2019 |
| The Thomas E. and Alice Marie Hales Distinguished Professor | 10/2008 - present |

Professional Memberships

|  |  |
| --- | --- |
| Harbison Surgical Society, University of Pittsburgh SOM | 1974 - 2002 |
| Pittsburgh Academy of Medicine | 1982 - 1990 |
| The Pittsburgh Thoracic Surgical Society | 1982 - 1990 |
| International Society for Heart Transplantation | 1982 - present |
| The Transplantation Society | 1983 - 2002 |
| Association for Academic Surgery | 1983 - 2002 |
| American Society for Artificial Internal Organs | 1983 - 2004 |
| Pennsylvania Medical Society | 1983 - 1987 |
| Allegheny County Medical Society | 1983 - 1990 |
| American Medical Association | 1984 - 1990 |
| The Society of Thoracic Surgeons | 1984 - present |
| Fellow, American College of Surgeons | 1984 - present |
| The Society of University Surgeons | 1985 - present |
| The American Association for Thoracic Surgery | 1985 - present |
| American Surgical Association | 1988 |
| The Pennsylvania Association for Thoracic Surgery | 1989 - 1998 |
| The Society of Clinical Surgery | 1989 |
| Association for Clinical Cardiac Surgeons | 1996 - |
| The Pittsburgh Surgical Society | 1998 - 2001 |
| American Society of Transplant Surgeons | 2001 |
| Cardiac Surgery Biology Club | 2002 - 2009 |
| Southern Thoracic Surgical Association | 2002 - present |
| Alpha Omega Alpha | 2008 - present |
| Baltimore Monthly Medical Reunion | 2009- 2020 |

Honors

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| --- | --- | --- |
| 1977 | American Heart Association | Research Fellowship Award |
| 1978 | Southwestern Pennsylvania Chapter of the American College of Surgeons  Award for Best Resident Research Presentation | *Extracorporeal Oxygenation, An Artificial Lung for Support of Neonates* |
| 1980 | Pittsburgh Academy of Medicine Best Research Award | *Static and Dynamic Computed Tomography of Normal and Injured Lung: Regional Ventilation Measurements* |
| 1983 | 33rd Howard Lilienthal Memorial Lecture, New York |  |
| 1986 | Bucknell University | Distinguished Alumnus in Chosen Profession |
| 1987 | University of Pittsburgh | Aaron Brown Lecture: *Progress with the Artificial Heart* |
| 1987 | Pittsburgh Academy of Medicine | Man of the Year Award |
| 1987 | Vectors/Pittsburgh | Man of the Year/Sciences |
| 1990 | Evarts A. Graham Memorial | Chairman, Travelling Fellowship Committee |
| 1991 | Provost's Inaugural Lecture | *The Stricken Heart: If It Is Broken, Why Not Replace It?* |
| 1992 | Dedication of Biology Building, Bucknell University | *Perspectives in Undergraduate Research* |
| 1992 | The Fred Brand Jr. Visiting Professor Lectureship, Allegheny General Hospital | *Progress in Pulmonary Transplantation* |
| 1992 | Argentine Society of Cardiology | Corresponding Member |
| 1993 | Bucknell University | Alumni Athletic Achievement Award |
| 1993 | University of Pittsburgh | McEllroy Award for outstanding former resident |
| 1994 | The Ormand C. Julian Visiting Professorship, Rush-Presbyterian-St. Luke's Medical Center, Chicago, Ill. | *Thoracic Lung Transplantation* |
| 1994 | The Chautauqua Institute, Chautauqua, N.Y. | *Lewis Thomas, M.D*. |
| 1996 | Shadyside Hospital, Pittsburgh, PA, The William B. Ford Lecture in Cardiac Surgery | *Cardiopulmonary Transplantation* |
| 1997 | Honoring past participants in collegiate lacrosse for outstanding career accomplishments and contributions to society | Men’s recipient of the Rolex Achievement Award |
| 1997 | Listed in The Best Doctors in America 1996-97 |  |
| 1998 | Harbin Medical University, Harbin, China | Honorary Professor |
| 1998 | Edinburgh, Scotland, United Kingdom | Induction into the Royal College of Surgeons |
| 1999 | Inducted intoWestern Pennsylvania 7th Annual History Makers Museum | Award for Medicine and Health |
| 1999 | The 14th Annual Dennison Young Memorial Symposium, Cell Biology and Management of Congestive Heart Failure TheAlbert Einstein College of Medicine, New York, NY | *Surgical Strategies: The Batista Operation and Left Ventricular Assist Devices* |
| 2000 | Tom Williams Lecture, University of Alberta, Edmonton, Alberta, Canada | *Lung Replacement: Dreams and More Dreams* |
| 2003 | Visiting Professor - 4th Annual Multi-Organ Transplantation Symposium, Evolving Clinical Strategies, St. Vincent Medical Center, Multi-Organ Transplant Center. Pasadena, Calif. | *Current Status of Total Artificial Heart & Left Ventricular Devices as Destination Therapy* |
| 2004 | The Daily Record, Baltimore, MD | 2004 Health Care Heroes Award for Advancements in Health Care |
| 2005 | The Annual William S. Pierce Lecture, Hershey Medical Center, Hershey, PA | *How the Heart Heals* |
| 2005 | ASAIO, Washington, DC, The Hastings Lecture | *How Do We Learn?* |
| 2006 | R. Adams Cowley Shock Trauma Hero | Award for Dedication & Outstanding Contribution to Saving Lives |
| 2008 | University of Maryland Baltimore, Board of Regents Faculty | Award for Research, Scholarship, Creative Activity |
| 2008 | University of Maryland School of Medicine Thomas E. and Alice Marie Hales | Distinguished Professor |
| 2009 | R. Adams Cawley Shock Trauma Hero Award | Dedication & Outstanding Contribution to Saving Lives |
| 2009 | Latner Lecture, University of Toronto | *Development of the Artificial Lung* |
| 2009 | Amelia Island, FL, Invited Speaker 3rd Annual James A. Magovern Memorial Lecture | *New Inspiration for Artificial Respiration* |
| 2010 | University of Maryland, Founders Week Award | Faculty Research Lecturer of the Year |
| 2013 | R. Adams Cowley Shock Trauma Hero Award | Dedication & Outstanding Contribution to Saving Lives |
| 2015 | Author of featured landmark article (Annals of Thoracic Surgery 1987;43 6-16) in the Annals of Thoracic Surgery | October 2015 issue. Commentary by Joel D. Cooper, M.D. (Annals of Thoracic Surgery 2015;100-1151-4) |
| 2016 | University of Maryland School of Medicine Surgical Grand Rounds. Dr. Robert W. Buxton Lecture & Symposium – June 23, 2016 | *Hickory Dickory Doc – Returning to a Beginner’s Mind* |
| 2017 | University of Maryland School of Medicine | Entrepreneur of the Year |
| 2019 | Annual Henry T. Bahnson Lecture, University of Pittsburgh Medical Center, Pittsburgh, PA May 14, 2019 | *Hank Bahnson: A Gatherer and Enabler of Genius.* |
| 2020 | Lillehei Lecture, Society of Thoracic Surgeons Annual Meeting, New Orleans, LA  January 28, 2020 | *Bumper Car Innovation of Heart Pumps and Mechanical Lungs* |
| 2020 | Innovation Award in Mechanical Circulatory Support,American Association for Thoracic Surgery Symposium, Houston, TX. February 14-15, 2020 | *Mechanical Support for the Heart and Lungs. New Devices and Techniques: Implantable Artificial Lung* |
| 2021 | Thomas D. Gordon Visiting Professorship, Cedars-Sinai Medical Center, Los Angeles, CA | *Current Progress for Xenotransplant of the Heart: Will It Be a Clinical Reality Soon?* |

***2022***

*Xenotransplantation* Cardiothoracic Surgery Grand Rounds, Duke University (virtual) January 12, 2022

*Cardiac Xenotransplantation* Department of Surgery Grand Rounds *Special Event*, University of Maryland School of Medicine January 20, 2022

*Genetically Modified Xenotransplantation: The Future is now.* Society of Thoracic Surgeons New Frontiers in Transplantation (virtual) January 30, 2022

*Cardiac Xenotransplantation* University of Maryland Baltimore, Board of Trustees Meeting March 3, 2022

*Recognition of Xenotransplantation* University of Maryland Medical Center*,* Board of Directors, March 22, 2022

*Is the Future Here and Now? Celebrating a Medical Breakthrough: Xenotransplantation.* Mass General Brigham, Boston, MA April 30, 2022

*Xenotransplantation Is Not Around theCorner Anymore: The First Pig-to-Human Heart Transplant.* Keynote Lecture on Innovation*.* Plenary Session, American Association for Thoracic Surgery, Boston, MA May 15, 2022

Administrative Service

Institutional Appointments

|  |  |
| --- | --- |
| 1981-11/2001 | Presbyterian University Hospital (now UPMC) |
| 1981-11/2001 | Children's Hospital of Pittsburgh (now UPMC) |
| 1985-11/2001 | Montefiore University Hospital (now UPMC) |
| 1988-11/2001 | Shadyside Hospital (now UPMC Shadyside) |
| 1990-11/2001 | Veteran's Affairs Medical Center |
| 1993-1996 | Westmoreland Regional Hospital |
| 1995-11/2001 | UPMC St. Margaret |
| 2001 - present | University of Maryland Medical Center |
| 2013 - 2020 | St. Joseph Medical Center (UMSJMC) |
| 4/30/03 – 5/1/07 | Bioengineering Graduate Faculty, University of Maryland, College Park |
| 9/07 – 10/21/09  01/28/21-12/31/22 | Adjunct Professor, Bioengineering, University of Maryland, College Park  Adjunct Professor in the Fischell Department of Bioengineering, University of Maryland, College Park |

Institutional Service

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| --- | --- | --- |
| 1982-1988 | Presbyterian-University Hospital | Hospital Infection Committee |
| 1982 | Presbyterian-University Hospital | Patient Care Committee |
| 1985-1986 | Family House, Inc. | Chairman, Long-Range Planning Committee |
| 1985-1986 | Presbyterian-University Hospital | Cardiology Planning Committee |
| 1985-1986 | Presbyterian-University Hospital | Transfusion Committee |
| 1986-2001 | Family House, Inc. | Executive Director |
| 1982-1987 | Children's Hospital of Pittsburgh | Infectious Disease Committee |
| 1982-1987 | Children's Hospital of Pittsburgh | Patient Care Committee |
| 1988-1990 | Shadyside Hospital | Interdisc Cardiovasc Disease Comm |
| 1992-1993 | Dean's Applicant Interview Committee | Member |
| 1993-2001 | University of Pittsburgh Medical Center | ICU Committee Ad hoc Member |
| 1995-2001 | University of Pittsburgh Medical Center | Co-Medical Director – CSIC |
| 1986-2001 | University of Pittsburgh Surgical Research Laboratory | Director |
| 1987-1999 | University Surgical Associates Board of Directors | Member |
| 1988-1990 | Shadyside Hospital Cardiothoracic Division | Chief |
| 1989-1995 | University of Pittsburgh, Pulmonary Transplant Program | Director |
| 1990-2001 | University of Pittsburgh CT, Training Program | Director |
| 1991-1998 | University of Pittsburgh Heart Institute | Co-Director |
| 1992-1994 | University of Pittsburgh Comprehensive Lung Center | Co-Director |
| 2002-2019 | University of Maryland CT Residency Training Program | Director |
| 2002-2007 | Admissions: University of Maryland School of Medicine | Member |
| 2002-2012 | Heart Center, University of Maryland Medical Center | Co-Director |
| 2002-2006 | University of Maryland SOM Council | Member |

National Service

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| --- | --- | --- |
| 1986-88 | Health Research and Services Foundation Board of Directors | Member |
| 1988-89 | International Heart Transplantation Society | Councilor |
| 1989-90 | ASAIO Program Committee | Member |
| 1990-91 | Evarts A. Graham Memorial Traveling Fellowship Committee | Chairman/Director |
| 1991 | The Society of Thoracic Surgeons - Ad Hoc Committee to Analyze Circulatory Assist Devices | Member |
| 1993 | Thoracic Surgery Directors Association, Curriculum Committee: Transplantation | Member |
| 1993-97 | NIH - Surgery, Anesthesiology and Trauma Study Section Division of Research Grants | Member |
| 1993-94 | ASAIO Federal Affairs Committee | Member |
| 1994 | The Third International Conference on Circulatory | Co-Director Support Devices for Severe Cardiac Failure Pittsburgh, PA |
| 1995 | Honorary Board of Directors, Transplant Recipients | Member International Organization (TRIO) |
| 1998 | NHLBI Board of Scientific Counselors | Ad hoc Member |
| 1998 | Immunosuppressant Drugs Subcommittee of the Standing | Consultant Antiviral Drugs Advisory Committee |
| 1998 | NIH Special Emphasis Panel for Review of RFA: HL-98-077: Specialized Centers of Research in Ischemic Heart Disease | Consultant |
| 1998-2001 | Research Committee | Chairman: Thoracic Surgery Foundation for Research and Education |
| 1999 | ISHLT Annual Meeting, San Francisco | Co-Chair |
| April 2000 | NIH/NHLBI Scientific Frontiers in Cardiothoracic Surgery Bethesda, MD | Participant |
| 2/7-9/01 | NIH Special Emphasis Panel for RFA AI-00-013: Immunopathogenesis of Chronic Rejection | Chairman |
| 2001-02 | HHS Advisory Committee on Organ Transplantation | Member |
| 2002 | AATS Ad Hoc Research Advisory Committee | Member |
| 2002-07 | Bucknell University Board of Trustees | Member |
| 2002 | MD Health Care Commission Steering Committee Advisory Committees: | Member1) Outcome Assessment in Cardiovascular Care2) Interventional Cardiology Subcommittee |
| 2002 | STS Workforce on End-Stage Cardiopulmonary Disease | Member |
| 2003 | Thoracic Surgery Directors Association Leadership Group | Counselor |
| 2004 | NIH Special Emphasis Panel for Bioengineering Research Partnership Applications PAR-03-032 | Reviewer |
| 2004 | NIH Special Emphasis Panel for SRA, Hypertension & Microcirculation Study Section 1 R01 HL080501-01 | Reviewer |
| 2005 | NIH Special Emphasis Panel | Reviewer |
| 2005 | Bucknell University, Board of Trustees Educational Policy Committee –2005 | Chair |
| 2006 | International Society for Heart and Lung Transplantation | Program Committee |
| 2006 | NHLBI Strategic Planning Process – Cardiovascular Program | MemberTheme #7: Working Group: Emerging & Evolving Technologies |
| 2006 | PinnacleCare Medical Advisory Board | Member |
| 2007 | AATS Scientific Affairs and Government Relations Committee | Member |
| 2007 | NIH Biomaterials & Biointerfaces Study Section 1 R01 HL092166-01 | Reviewer |
| 2009-11 | AATS Scientific Affairs and Government Relations Committee | Chair |
| 2009 | NIH College of CSR Reviewers | Member |
| 2010-12 | Cardiac Surgery Biology Club | Program Chair |
| 2013 | NIH Biomaterials & Biointerfaces Study Section 2 R01 HL 120975-01 & 1 R01 HL 121057-01 |  |
|  | CSR Reviewer (2) |  |
| 2014 | NIH Bioengineering, Technology, and Surgical Sciences (BTSS) | CSR Reviewer (4) |
| 2014 | ACC 2014 Young Investigator Awards Competition | Judge |
| 2015 | NIH Special Emphasis Panel: Translational Programs in Lung Diseases (tPPG) | CSR Reviewer |
| 2017 | NHLBI Review: RFA HL-17-015 Bold New Bioengineering Methods and Approaches | CSR Reviewer (4) |
| 2017 | NIH Special Emphasis Panel/Scientific Review Group 2017/05/ ZRG1 CVRS-Q (11) | CSR Reviewer (5) |
| 2017 | AATS/NHLBI 2017 Workshop June 25-27, 2017, Bethesda, MD Identifying Collaborative Clinical Research Priorities in Lung Transplant | Reviewer |
| 2018 | NIH Small Business Applications: Cardiovascular Respiratory Sciences (ZRG1 CVRS-Q 11 B) | CSR Reviewer |
| 2018-2019  11/12-13/20  9/24/2020- 11/15/2021 | NHLBI Data & Safety Monitoring Board (DSMB) for the Prevention of Lung Transplant Injury with Regadenoson  NIH Cardiovascular SBIR/STTR Grant Review Panel  United Network of Organ Sharing (UNOS)  Heart Transplant Program, UMMC | Member  Reviewer  Surgical Director |

Advisory Boards, etc.

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| 1998-2001 | UPMC Health Plan, Inc. | Medical Consultant |
| 1997-98 | Cardiac Assist Technologies Scientific Advisory Board | Consultant |
| 2002-03 | BioSet |  |
| 2004-05 | Iken Tissue Therapeutics | Consultant |
| 2005-13 | CircuLite, Inc. | Consultant |
| 2005-07 | ABIOMED, Inc. | Consultant |
| 2005-07 | Paracor Medical, Inc. | Consultant |
| 2007-08 | TransMedics | Medical Monitor |
| 2008-09 | TransMedics, U.S. Pivotal Trial Steering Committee | Consultant |
| May 2012-to present | Medtronic, Inc., Surgical Advisory Board | Consultant |
| 2013 to 2020 | ABIOMED, Inc. | Consultant |
| 2016 to present | Edwards Lifesciences LLC | Consultant |
| July 6, 2020- present | ABIOMED, Inc. | Master Physician Consultant |

May 2014, Founder of Breethe, Inc.

Editorial Boards

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| --- | --- |
| 1989 | Clinical Transplantation |
| 1992 | Journal for Cardiovascular Surgery |
| 1993-2002 | Annals of Thoracic Surgery |
| 1994 | Journal of Cardiac Surgery |
| 1995 | MVP Video Journal of Cardiothoracic Surgery |
| 1996 | Seminars in Thoracic and Cardiovascular Surgery,  Adult Heart Transplantation, Guest Editor |
| 1997-98 | Transplantation |
| 1999 | Graft |
| 1999 | Journal of Heart and Lung Transplantation |
| 2000-2003 | American Journal of Transplantation, Associate Editor |
| 2000 | Advances in Cardiac Surgery, Vol 13 |
| 2002 | Transplantation Proceedings |
| 2003 | Circulation, Surgical Supplement, Guest Editor |
| 2003-2010 | Journal of Thoracic and Cardiovascular Surgery |
| 2005 | Biomedcentral: Journal of Cardiothoracic Surgery |

Journal Referring

* Scanning Electron Microscopy
* Chest
* Journal of the American Medical Association
* Artificial Organs
* Circulation
* Transactions--American Society for Artificial Internal Organs
* Digestive Diseases and Sciences

Teaching Responsibilities

University of Pittsburgh – mentored 16 clinical transplant fellows 1988 through 2001

University of Pittsburgh – mentored 34 cardiothoracic residents 1984 through 2001

University of Maryland – mentored 5 clinical transplant fellows 2005-present

University of Maryland – mentored 46 cardiothoracic residents 2002 – present

GRANTS

Current Grant Support

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| --- | --- |
| 01/2020-05/30/2025 | Total Award: NIAID/NIH/Mass General Hospital $3,237,950  **Sub-award to UMB**: $674,946 U19: NIH 2U19AI090959-12  **Genetically Engineered Pig Organ Transplantation in Baboons: Immunological and Functional Studies**  David Cooper, MD, Principal Investigator  Muhammad Mohiuddin, MD, Principal Investigator  Bartley P. Griffith, MD, Co Investigator |
| 4/21/17-12/31/24 | Total Award: $23,900,000 United Therapeutics, sponsor  **Capital Expenditures for Cardiac Xenotransplant Study**  Lung Biotechnology PBC  Bartley P. Griffith, MD, Principal Investigator (eff. 03/25/19).  Zhongun Wu, PhD, Co-Investigator  Mohammad M. Muhiuddin, MD, Co-Investigator |
| 04/2021-09/2023  02/2019-02/2022  07/2019-08/2022  10/2019-10/2023  06/2020-06/2023  09/2016-08/2023 | Total Award: $2,336,663 United Therapeutics Corporation  **Allogeneic Recellularized Lung Orthotopic (ARLO) Research**  Bartley P. Griffith, MD, Principal Investigator  Total Award: $190,697 Lung Bioengineering, Inc. Pro#EVP-DEV-LTX-301  **Increasing Lung Transplant Availability Using Normothermic *Ex-Vivo* Lung Perfusion**  Bartley P. Griffith, MD, PD/PI  Total Award: $548,490 EDWARDS LIFESCIENCES LLC  **Prospective Non-Randomized Single Arm Multicenter** **Evaluation of the Durability of Aortic Bioprostheses/Vales with RESILIA Tissue in Subjects Under 65 (RESILIENCE Trial)**  Bartley P. Griffith, MD, PD/PI  Total Award: $576,071 Breath Therapeutics, Inc.  **A Phase III, Prospetive, Multicenter, Randomized, Controlled Clinical Trial to Demonstrate the Effectiveness and Safety of Liposomal Cyclosporine A (L-Csa) Inhalation Solution Delivered via the PARI**  Bartley P. Griffith, MD, PD/PI  Total Award: $1,155,258.82 Breath Therapeutics, Inc.  **A Phase III, Multicenter, Open-Label, Extension Clinical Trial to Demonstrate the Effectiveness and Safety of Liposomal Cyclosoporine A (L-CsA) Inhalation Solution Delivered via the PARI Investigation**  Bartley P. Griffith, MD, PD/PI  Total Award: $443,394 Medtronic, Inc.  **Medtronic Low-Risk TAVR**  Bartley P. Griffith, MD, PD/PI |
| 04/12/18-03/31/23 | Total Award: $2,859,840 NIH 1R01HL 141817-03  **Development and Pre-Clinical Trial Qualification of a Pediatric Pump-Lung System for Children**  Bartley P. Griffith, MD, Co-Principal Investigator  Zhongjun Wu, Co-Principal Investigator |
| 07/01/20-05/31/24 | Total Award: $2,892,555 NIH/NHLBI 2R01HL 118372-06  **Enhancement of an Artificial Lung for Ambulatory Respiratory Support**.  Bartley P. Griffith, MD (contact), Co-Principal Investigator,  Zhongjun Wu, PhD, Co-Principal Investigator |
| 2018 – present | Total Award: $136,000 Center for Maryland Advanced Ventures  **Bi-directional Cannula for Arterial Access for Extracorporeal Life Support**  Bartley P. Griffith, MD, Principal Investigator |
| 04/2013-05/2025 | Total Award: $5,164,952 Edwards Life Sciences LLC  **Prospective, non-randomized, multicenter evaluation of the Edwards Pericardial Aortic Bioprosthesis Model 11000A** (COMMENCE Trial)  Bartley P. Griffith, MD, PD/PI |
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Previous Grant Support

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| --- | --- | --- |
| 1977-1978 | $5,000 Western Pennsylvania Heart Association **Thrombo-resistance for Microchannel Membrane Oxygenation** Bartley P. Griffith, Post-Doctoral Fellow Robert L. Hardesty, Sponsor | |
| 1979-1980 | $4,000 Western Pennsylvania Heart Association **Membrane Oxygenation for Respiratory Support** Robert L. Hardesty, Principal Investigator Bartley P. Griffith, Collaborating Investigator | |
| 1982-1984 | $27,000 Health Research and Services Foundation **The Detection of Microvascular Immune Injury by Multi­tracer Methods in Primate Heart-Lung Transplants** Bartley P. Griffith, Principal Investigator | |
| 1982-1984 | $10,000 Western Pennsylvania Heart Association **Twelve Hour *Ex-Vivo* Heart and Lung Preservation** Bartley P. Griffith, Principal Investigator | |
| 1982-1983 | $10,000 Human Research Committee Award, Children's Hospital of Pittsburgh **Development of Ventricular Assist System for Children** Bartley P. Griffith, Principal Investigator | |
| 1982-1983 | $6,000 Human Rights Committee Award, Children's Hospital of Pittsburgh **Development of a System for Extracorporeal Carbon Dioxide Removal and Apneic Oxygenation for Respiratory Failure** Bartley P. Griffith, Principal Investigator | |
| 1983-1984 | $10,000 Western Pennsylvania Heart Association **Organ Preservation for Combined Heart-Lung Transplantation** Bartley P. Griffith, Principal Investigator | |
| 1983-1984 | $9,812 American Heart Association **Cyclosporine A Kinetics in Heart Transplant Patients** Raman Venkataramanan, Principal Investigator Bartley P. Griffith, Collaborating Investigator | |
| 1983-1984 | $35,000 Ben Franklin Partnership Board, Small Business Research Grants Program **Single Catheter System for Automatic Implantable Car­dioverter Defibrillator** Principal Investigators: Stanley M. Bach Jr., Richard N. Fogoros, Robert L. Hardesty, Bartley P. Griffith, and Robert L. Bernstein | |
| 1984-1985 | $9,890 American Heart Association **Skeletal Muscle Allograft Biopsy for Diagnosis of Heart Rejection** Bartley P. Griffith, Principal Investigator | |
| 1984-1985 | $10,000 Western Pennsylvania Heart Association **Heart-Lung Hypothermic Preservation *In-Situ*** Robert L. Hardesty, Principal Investigator Bartley P. Griffith, Collaborating Investigator | |
| 1985-1986 | $9,890 Western Pennsylvania Heart Association **Autoperfusion Method for Ex-Vivo Heart-Lung Preservation** Bartley P. Griffith, Principal Investigator | |
| 1986-1987 | $15,675 Western Pennsylvania Heart Association **Biomechanics of Acute Cardiac Transplantation Rejection** Bartley P. Griffith, Principal Investigator | |
| 1986-1987 | $16,500 American Lung Association of Pennsylvania **Role of Bronchoalveolar Lavage After Heart-Lung Preserva­tion** Irvin L. Paradis, Principal Investigator Bartley P. Griffith, Collaborating Investigator | |
| 1986-1989 | $72,500 Ben Franklin Partnership **Advanced Implantable Cardiac Assist Device** Bartley P. Griffith, Project Director Mr. S. A. Kolenik, President, VASCOR, Inc. | |
| 1986-1987 | $18,000 Western Pennsylvania Heart Association **Biomechanical Characteristics of the Rejecting and Non-Rejection Transplanted Heart of the Dog** Robert L. Kormos, Principal Investigator Bartley P. Griffith, Collaborating Investigator | |
| 1986-1989 | $325,219 Department of Health and Human Services **Lymphocyte Analysis in Human Heart-Lung Transplant Rejection** Rene J. Duquesnoy, Principal Investigator Bartley P. Griffith, Collaborating Investigator | |
| 1987-1988 | $15,400 American Heart Association **Evaluation of Prostaglandin El for Heart-Lung Preservation** Robert L. Hardesty, Principal Investigator Bartley P. Griffith, Collaborating Investigator | |
| 1987-1988 | $16,940 Western Pennsylvania Heart Association **The Diagnosis of Rejection in the Canine Lung Transplant** Bartley P. Griffith, Principal Investigator | |
| 1987-1988 | $14,637 Competitive Medical Research Fund, Presbyterian-University Hospital **Diagnosis of Pulmonary Rejection Using Bronchoalveolar Lavage** Bartley P. Griffith, Principal Investigator | |
| 1987-1990 | $298,290 National Institute of Health **Cerebral Blood Flow and Neurological Function in Heart Transplant Patients** Walter D. Obrist, Principal Investigator Bartley P. Griffith, Co-Investigator | |
| 1988-1989 | $17,820 American Heart Association **The Role of LDL Metabolism in the Development of Accelerated Atherosclerosis of Transplanted Arterial Tissue** Samuel J. Durham, Principal Investigator Bartley P. Griffith, Co-principal Investigator | |
| 1988-1990 | $16,750 American Lung Association **Diagnosis of Pulmonary Rejection Using Bronchoalveolar Lavage** Robert L. Kormos, Principal Investigator Bartley P. Griffith, Collaborating Investigator | |
| 1989-1990 | $22,000 American Heart Association **Evaluation of Inhalation of Cyclosporine for Local Immunosuppression** Bartley P. Griffith, Principal Investigator | |
| 1989- 1992 | $437,022 National Institutes of Health **Trauma, Infection, and Prosthetic Biomaterials** Richard L. Simmons, Principal Investigator Bartley P. Griffith, Co-Principal Investigator | |
| 1990-1992 | $34,997 American Lung Association **Aerosolized Cyclosporine in Lung Transplantation** Bartley P. Griffith, Principal Investigator | |
| 1990-1995 | $1,634,481 NIH NHLBI HV- 89-10 (withdrawn by NIH)  **Clinical Centers for the Evaluation of Implantable Ventricular Assist Systems for Human Subjects with Chronic Refractory Heart Failure** Bartley P. Griffith, Principal Investigator | |
| 1991-1994 | $96,864 Food and Drug Administration FD-R-000673-01-3 **Aerosolized Cyclosporine for Rejection in Lung Transplant Recipients**  Bartley P. Griffith, Principal Investigator | |
| 1990-1995 | $845,561 National Institutes of Health **Lymphocyte Analysis in Human Heart Transplants** Rene J. Duquesnoy, Principal Investigator Bartley P. Griffith, Co-Investigator | |
| 1992-1995 | $529,118 National Institutes of Health 1RO1 HL48091-01 **Effects of Local Delivery of CsA on Pulmonary Rejection** Bartley P. Griffith, Principal Investigator | |
| 1992-1994 | $219,672 NIH 2R44-HL42701-02 SBIR **Chronic VAS Utilizing Axial Flow Blood Pump - Phase II** Bartley P. Griffith, Principal Investigator (Pitt) Kenneth Butler, Principal Investigator (Nimbus) | |
| 4/1/94-11/30/94 | $18,998 NHLBI/NIH SBIR Phase I Award R43 HL51667-01 **Pediatric Blood Pump Development** Kenneth C. Butler, Principal Investigator (Nimbus) Bartley P. Griffith, Co-Investigator (Pitt) | |
| 1988 - 1997 | $124,900 VA Merit Review Grant Application  **Clinical and Physiological Impact of Pulmonary and Lower Airway Denervation**  Mark H. Sanders, Principal Investigator Bartley P. Griffith, Co-Investigator | |
| 6/1/95-11/30/95 | $10,500 NHLBI/NIH SBIR Phase I 1R 43 HL 54349-01 **Wearable Controller for Implanted Rotary Blood Pump** Kenneth C. Butler, Principal Investigator (Nimbus) Bartley P. Griffith, Co-Investigator (Pitt) | |
| 1994-1995 | $19,189 NHLBI/NIH SBIR Phase I Award R43 HL53131-01 **Pulsatile Pediatric Blood Pump Development** Kenneth C. Butler, Principal Investigator (Nimbus) Bartley P. Griffith, Co-Investigator (Pitt) | |
| 1994-1995 | $25,000 NIH SBIR Phase I 1R 43 HL 54295-01 **Axial Flow Blood Pump with Simplified Bearings** Kenneth C. Butler, PI (Nimbus) & Bartley P. Griffith, Co-PI (Pitt) | |
| 1995-1996 | $29,411 NHLBI/NIH SBIR 1R 43 HL 54412 **Integrated Blood Pump Oxygenator for Neonatal Use** Kenneth C. Butler, Principal Investigator (Nimbus) Bartley P. Griffith, Co-Principal Investigator (Pitt) | |
| 1995-1997 | $748,954 The Whitaker Foundation: Biomedical Engineering Special Opportunity Award **Program Enhancement in Bioengineering—Clinical Cardiovascular Bioengineering** Harvey S. Borovetz, Ph.D., Principal Investigator Bartley P. Griffith, Co-Investigator | |
| 1995-1997 | $22,643 Department of Health and Human Services SBIR Phase II **Pediatric Blood Pump Development - Phase II** Kenneth C. Butler, Principal Investigator (Nimbus) Bartley P. Griffith, Co-Principal Investigator (Pitt) | |
| 4/1/96-3/31/98 | $304,198 NHLBI/NIH R44 HL 61667 SBIR  **Pediatric Blood Pump Development - Phase II** Kenneth C. Butler, Principal Investigator (Nimbus Medical, Inc.) Bartley P. Griffith, Co-Principal Investigator (Pitt) | |
| 4/2/96-2/28/98 | $361,113 NHLBI/NIH R44 HL 54295 SBIR **Axial Flow Blood Pump with Simplified Bearings - Phase II** Kenneth C. Butler, Principal Investigator (Nimbus Medical, Inc.)  Bartley P. Griffith, Co-Principal Investigator (Pitt) | |
| 1996-1998 | $319,498 NHLBI/NIH R44 HL 53131-02 *(Award made but withdrawn when Nimbus no longer qualified as an eligible applicant organization)*  **Pulsatile Pediatric Blood Pump Development - Phase II** Kenneth C. Butler, Principal Investigator (Nimbus Medical, Inc.) Bartley P. Griffith, Co-Principal Investigator (Pitt) | |
| 1995-9/30/99 | $4,807,768 NIH RFP NHLBI-HV-58155 **Development of an Innovative Ventricular Assist System** Kenneth C. Butler, Principal Investigator (Nimbus) Bartley P. Griffith, Co-Principal Investigator (Pitt) | |
| 1996-2001 | $278,610 AI 40329-02  **Combined Bone Marrow and Organ Transplantation in Humans** John J. Fung, Principal Investigator Bartley P. Griffith, Co-Investigator | |
| 4/1/98 to 3/31/02 | $1,697,200 NIH/NHLBI 1RO1 HL 59490-01A1 **Aerosol Cyclosporine for Prevention of Acute Lung Rejection** Bartley P. Griffith, Principal Investigator Aldo Iacono, Co-Principal Investigator | |
| 3/1/99 to 2/28/02 | $196,884 NIH 1RO1 HL62324-01 **P-Glycoprotein in lung allografts** Gilbert J. Burckart, Principal Investigator Bartley P. Griffith, Faculty Consultant | |
| 3/2/99 – 2/28/02 | $1,328,381 NHLBI R01 HL065740 02 **Development of a Chronic Artificial Lung** Bartley P. Griffith, Principal Investigator Zhongjun Wu, PhD, Co-Investigator University of Pittsburgh, Pittsburgh, PA | |
| 07/01/00-05/31/02 | $1,000,000 Commonwealth of Pennsylvania **Development of Artificial Organs and Related Products** Bartley P. Griffith, PI | |
| 4/1/00 to 3/31/04 | $1,281,813 NIH 1RO1 HL 64950-01 **Bioengineering-Biologic Study of Non-Pulsatile Perfusion** Bartley P. Griffith, Principal Investigator | |
| 7/01/00-3/31/05 | $1,993,453 NIH/NHLBI 1R01HL60740 **Development of a Chronic Artificial Lung** Bartley P. Griffith, Principal Investigator | |
| 7/1/01 to 6/30/02 | $50,000 Pittsburgh Tissue Engineering Initiative, Inc. **Cell Therapy for Congestive HF Using Skeletal Muscle-Derived Stem Cells** Bartley P. Griffith, Principal Investigator | |
| 01/01/05 to 01/01/07 | $165,000 William G. McGowan Charitable Fund, Inc. **Effect of Assisted Healing of the Heart After Myocardial Infarction** Bartley P. Griffith, Principal Investigator | |
| 04/01/06 to 03/31/2007 | Total cost: $266,988 ($101,613 to U of Maryland) NHLBI/NIH STTR R41 HL084807-01 **Integrated Maglev Pump Oxygenator for Respiratory Support** Kurt A. Dasse, Zhongjun Wu, Principal Investigators Bartley P. Griffith, Co-Investigator | |
| 02/01/06-01/31/07 | Total cost: $200,046 ($100,309 to U of Maryland) NIH R41 STTR HL083621-01  **Impeller Optimization for a Combined Pump-Oxygenator** Bartley P. Griffith, Co-Principal Investigator Biancucci/MC3, University of Maryland subcontract | |
| 7/26/05-6/30/08 | $36,097 Jarvik Heart, Inc. Multi-center Trial **Clinical Protocol for Evaluation of the Jarvik 2000 Heart Assist System** Bartley P. Griffith, Principal Investigator | |
| 9/1/07-8/31/08 | $36,775 UMB-UMCP Seed Grant Competition Study Section **Molecular Imprinted Polymer Coatings to Enhance the Biocompatibility of Artificial Lungs** Bartley P. Griffith, Principal Investigator (UMB) Trevor Snyder, Ph.D., Research Associate | |
| 4/01/2004 to 3/31/2009 | $1,590,984 BAA NHLBI-HV-04-01 HHSN268200448190C  (Total Cost: $5,100,000)  **Pediatric Circulatory Support** Robert Jarvik, MD, Principal Investigator  Bartley P. Griffith, MD, Co-Principal Investigator | |
| 1/1/06-6/30/09 | $45,605 Thoratec Corporation **Clinical Evaluation of the HeartMate II LVAS** Bartley P. Griffith, Principal Investigator | |
| 07/01/07-6/30/09 | $275,000 (direct) R21 AG029565-01A1 (Percentile: 0.3%) **Predicting Heart Failure: Gene Profiling of Amplified RNA from Human LV Biopsies** Meredith Bond, Principal Investigator Bartley P. Griffith, Consultant | |
| 07/01/07-06/30/2012 | $3,543,552 NIH 1R01 HL086918-01A1 **Identifying and Facilitating Ventricular Recovery on Mechanical Support** John Gorcsan, Principal Investigator Bartley P. Griffith, Co-Investigator | |
| 09/01/10-8/31/12 | $152,250 RFA HL 10-016 (R34)  **Ex-vivo Human Lung Perfusion to Improve Quantity & Quality for Lung Tx** Thomas Egan, PI (U of North Carolina)  Bartley P. Griffith, Co-PI | |
| 04/01/06 to 03/31/2013 | $3,541,678 PA-02-011 NIH/NHLBI R01 HL081106-01A1 **Strain Controlled LVAD Unloading and Post MI Remodeling** Bartley P. Griffith, Principal Investigator | |
| 05/01/09-04/30/13 | $330,000 William G. McGowan Charitable Fund, Inc. **Engineering Cardiac Stem Cells for Heart Repair** Bartley P. Griffith, Principal Investigator | |
| 07/15/09-06/31/13 | $2,943,568 ($834,000 to U of Maryland) NIH/NHLBI 1R44 STTR HL096214-01 **Circulite’s Circulatory Support System in Children and Infants** Gail Farnan, Principal Investigator Bartley P. Griffith, Subcontract PI | |
| 09/01/08-5/31/2014 | $1,461,500 (NCE) NIH 1 R01 HL088100-01 02S209 **Linking Multi-scale Dynamics of Shear-Induced Blood Damage to CFD Modeling** Zhongjun Wu, Principal Investigator Bartley P. Griffith, Co-Investigator | |
| 05/07/07 to 4/30/14 | $3,575,860 (NCE) 1R01 HL082631-01A1 NIH/Bioengineering Research Partnership  **Development of an Artificial Pump-Lung for Respiratory Failure** Bartley P. Griffith, PI | |
| 06/28/12-06/27/15 | $689,958  Maryland Stem Cell Research Fund  **Improving MSC Engraftment in the Ischemic Heart** Bartley P. Griffith, PI | |
| 01/15/10-01/14/14 | $6,853,583 NIH/NHLBI-HV-09-14 HHSN268201000014C **Pumps for Kids, Infants and Neonates (PumpKIN) Pre-Clinical Program** Bartley P Griffith, Principal Investigator | |
| 01/15/10-01/14/14 | $6,853,583 Total Award; $1,031,842-UMB NIH/NHLBI-HV-09-14 HHSN268201000013C **Clinical Readiness of the Small Jarvik 2000 Heart for Kids, Infants and Neonates** Robert Jarvik, PI and Bartley P Griffith, PI (UMB) | |
| 06/28/12-06/27/14 | Total Cost: $689,958.00 MD Stem Cell Research Fund Improving MSC **Engraftment in The Ischemic Heart**  Bartley P Griffith, PI | |
| 07/05/13-03/31/2020 | Total Cost: $4,946,992 NIH/NHLBI 1R01HL118372-01  **First-In-Human Use of an Artificial Lung for Ambulatory Respirator Support** Bartley P. Griffith, Co-Principal Investigator Zhongjun Wu, Co-Principal Investigator | |
| 04/20/2014-03/31/2021  04/20/2014-08/31/2021 | Total Cost: $2,119,944 NIH/NHLBI 1R01 HL 124170-01A1  **Shear-Induced Hemostatic Dysfunction and Bleeding in CF-VAD**  **Recipients**  Zhongjun Wu, PhD, Co-Principal Investigator  Bartley P. Griffith, MD, Co-Principal Investigator  Total Award: $492,564 NIH 2R01HL 118491-06A1  **Mechanism of Transplanted Neonatal Cardiac Progenitor Cells to Repair Ischemic Myocardium**  Sunjay Kaushal, MD, Principal Investigator  Bartley P. Griffith, MD, Co-Investigator |

**Issued Patents**

1. Integrated centrifugal blood pump-oxygenator, an extracorporeal life support system and a method of a method of de-bubbling and priming an extracorporeal life support system. US Patent 8,496,874 B2, July 30, 2013.
2. Integrated centrifugal blood pump-oxygenator, an extracorporeal life support system and a method of a method of de-bubbling and priming an extracorporeal life support system. US Patent 9,278,168 B2, March 8, 2016.
3. Integrated centrifugal blood pump-oxygenator, an extracorporeal life support system and a method of a method of de-bubbling and priming an extracorporeal life support system. US Patent 10,258,729 B2, April 16, 2019.
4. Blood oxygenator. US Patent 10,188,788 B2. Jan. 29, 2019.
5. An oxygen supply unit for use with a blood oxygenator comprises an oxygen concentrator and a carbon dioxide scrubber. Artificial Lung System and its Methods of Use; US Patent 10,413,655 B2 Sept 17, 2019
6. Self-Sealing Cannula. System for blood draining and/or infusion from and to the circulatory system, and methods of use of such systems. US Patent 10,695,483 B2; June 30, 2020
7. Self-Expanding Cannula. ZW-2013-085, US Patent 10,912,920B2, filed February 9, 2021

**Applications for Patent (pending)**

1. Blood Pump-Oxygenator System. US patent application filed on September 13, 2004. US Patent Application Publication No.: US 2007/0249888 A1. October 25, 2007.
2. Biocompatible Coating Compositions. US Patent Application PCT/US2014/010391, filed on January 7, 2014. US Patent Application Publication US2015/0352265 A1
3. Self-Seal Double Lumen Cannula. US Patent Application PCT/US2015/060127, filed on November 13, 2015.
4. An Artificial Lung System and Its Methods of Use. US Patent Application PCT/US2015/061214, filed on November 18, 2015.
5. Dual Chamber Gas Exchanger for Respiratory Support and Method of Using.  US Provisional Patent Application Number: 62/545,512, filed on August 15, 2017.
6. Graded Stiffness Guidewire 16/256,499, filed on January 24, 2019.
7. System for Control of a Blood Gas Exchanger. US Provisional Patent Application Number: 62/687,484, filed on June 20, 2018. US Patent Appl #: 17/253,673 filed 12/18/20.

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**1978**

1. Borovetz HS, **Griffith BP**, Phillips LV, Haubold AD, Hercules DM, Hung T-K, and Hardesty RL: Scanning electron microscopic and surface analytical study of isotopic vapor-deposited carbon film on microporous membran­es. Scan Electron Microsc, 2:85-94, 1978
2. **Griffith BP**, Hardesty RL, Borovetz HS, Hung T-K, and Bahnson HT: Arteriovenous extracorporeal membrane oxygenation for respiratory support. Surg Forum, 29:192-194, 1978
3. Borovetz HS, **Griffith BP**, Hung T-K, Hardesty RL, and Weissman MH: Arteriovenous perfusion with the pulmonary assist membrane oxygenat­or. Int J Artif Organs, 1:232-238, 1978

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1. **Griffith BP**, Borovetz HS, Hardesty RL, Hung T-K, and Bahnson HT: Arteriovenous ECMO for neonatal respiratory support--a study in periges­tational lambs. J Thorac Cardiovasc Surg, 77:595-601, 1979
2. **Griffith BP**, Carroll RG, Hardesty RL, Peel RL, and Borovetz HS: Selected lobar injury following infusion of oleic acid. J Appl Physiol 47:706, 1979
3. Gur D, Drayer BP, Borovetz HS, **Griffith BP**, Hardesty RL, and Wolfson SK: Dynamic computed tomography of the lung: Regional ventilation measure­ments. J Comput Assist Tomog 3(6):749-753, 1979

**1980**

1. Deeb GM, Borovetz HS, **Griffith BP**, and Hardesty RL: Thromboresis­tant surface coatings for the measurement of cardiac output through continuous low flow peripheral A-V shunts. Ann Surg, 191:114-116, 1980
2. **Griffith BP**, Borovetz HS, Hardesty RL, Hung T-K, and Bahnson HT: Cardiopulmonary dynamics during arteriovenous perfusion: Cardiac output, pulmonary arterial resistance, and right ventricular stroke work. Ann Thorac Surg, 29:49-56, 1980
3. Hardesty RL, Deeb GM, **Griffith BP**, Debski RF, Siewers RD, Borovetz HS, and Bahnson HT: Clinical experience with the travenol TMOR membrane oxygenator for profound hypothermia. Arch Surg, 115:1355-1358, 1980
4. Debski RF, Borovetz HS, Murphy JJ, Levine G, **Griffith BP**, and Hardesty RL: Pulmonary capillary permeability following selective oleic acid infusion. Surg Forum, 31:239-241, 1980
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1. Hardesty RL, **Griffith BP**, Debski RF, Jefferies MR, and Borovetz HS: Extracorporeal membrane oxygenation: Successful treatment of persistent fetal circulation following repair of congenital diaphrag­matic hernia. J Thorac Cardiovasc Surg, 81:556-563, 1981
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5. Mancini MC, **Griffith BP**, Borovetz HS, and Hardesty RL: Static lung preservation in a canine model. J Heart Transplant, 2:3:175-180, 1983
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7. **Griffith BP**, Hardesty RL, Thompson ME, Dummer JS, and Bahnson HT: Cardiac transplantation with cyclosporine: The Pittsburgh ex­perience. J Heart Transplant, 2:4:251-256, 1983
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14. Dummer JS, Bahnson HT, **Griffith BP**, Hardesty RL, Thompson ME, and Ho M: Infections in patients on cyclosporine and prednisone following cardiac transplantation. Transplant Proc, 15:4:2779-2781, 1983
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2. Roh M, Siewers RD, Bahnson HT, Hardesty RL, and **Griffith B**. Blalock shunt: Procedure of choice in infants. J Cardiovasc Surg, 25:1:1-4, 1984
3. **Griffith BP**, Hardesty RL, Thompson ME, Dummer JS, and Bahnson HT: Cardiac transplantation with cyclosporine: The Pittsburgh ex­perience. J Heart Transplant, 2:4:251-256, 1983
4. Starzl TE, Nalesnik MA, Porter KA, Ho M, Iwatsuki S, **Griffith BP**, Rosenthal JT, Hakala TR, Shaw BW, Hardesty RL, Atchison RW, Jaffe R, and Bahnson HT: Reversibility of lymphomas and lymphoproliferative lesions developing under cyclosporine steroid therapy. Lancet, 1:583-587, 1984
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**Major Invited Lectures**

**1978**

"Arteriovenous Extracorporeal Membrane Oxygenation" University Surgical Residents' Conference, Lexington, KY

"Continuous Cardiac Output Determination by Indocyanine Green Determination" Surgical Forum, San Francisco, CA

"Extracorporeal Oxygenation, An Artificial Lung for Support of Neonates" Southwestern PA Chapter of the American College of Surgeons, Pittsburgh, PA

**1979**

"Selected Lobar Injury Following Infusion of Oleic Acid" Society of University Surgeons Residents' Conference, Salt Lake City, UT

"Discrete Subvalvular Aortic Stenosis--An Operative Approach" PA Thoracic Surgical Association, Seven Springs, PA

**1980**

"Static and Dynamic Computed Tomography of Normal and Injured Lung: Regional Ventilation Measurements" Pittsburgh Academy of Medicine, Pittsburgh, PA, and Society of University Surgeons Residents' Conference, Houston, TX

"Clinical Experience at Children's Hospital of Pittsburgh With Neonatal ECMO for Diaphragmatic Hernia With Persistent Fetal Circulation" Pennsylvania Association for Thoracic Surgery

"Cardiac Transplantation in Pittsburgh--Seminar For Practicing Physicians" Division of Continuing Education, University of Pittsburgh, Pittsburgh, PA

**1981**

"Cardiac Transplantation With Cyclosporine A and Low-Dose Prednisone" American Surgical Association, Boston, MA

"Heart Transplantation and Cyclosporine" Jefferson County Medical Society, Dubois

"Organ Transplantation" Eighth Annual Symposium for Nurse Anesthetists, Pittsburgh

"Cardiac Transplantation" Allegheny Community College, North Community Educational Services Department, Sewickley, PA

"Heart Transplantation and Cyclosporine" Western Pennsylvania Society of Hospital Pharmacists and Allegheny Pharmaceutical Association, Pittsburgh, PA

**1982**

"ECMO--The Pittsburgh Experience, ECMO Symposium, University of Michigan, Ann Arbor

"Cardiac Transplantation" Medical College of Ohio, Department of Medicine, Toledo

"Cardiac Transplants with Cyclosporine A and Low-Dose Prednisone: Histologic Graduation of Rejection" Ninth International Congress of the Transplantation Society, Brighton, England

"Current Status of Cardiac and Lung Transplantation" l5th World Congress on Diseases of the Chest, Toronto, Ontario, Canada

"Current Status of Heart-Lung Transplantation" Allegheny General Hospital, Pittsburgh, PA

"Cardiac Transplantation" Third Annual Cardiovascular Symposium, St. Vincent Health Center, Erie, PA

"Cardiopulmonary Physiology" Outreach Program, McKeesport Hospital, McKeesport, PA

"Cardiac Transplantation--The Pittsburgh Experience" Lenox Hill Hospital, New York,

**1983**

"Organ Transplantation and Immunosuppressive Therapy" Pennsylvania Society of Hospital Pharmacists, Pittsburgh, PA

"Powerful But Limited Immunosuppression for Cardiac Transplantation With Cyclosporine A and Low-Dose Steroid" American Association for Thoracic Surgery, Atlanta, GA

"Heart-Lung Transplantation" 33rd Howard Lilienthal Lecture, Scientific Program, New York State Chapter, American College of Chest Physicians, Port Chester, NY

"Cardiac Transplantation--The Pittsburgh Experience" Koret Visiting Professor Program, San Francisco, CA

"Heart-Lung Transplantation" Association of Surgical Technologists, Inc., Pittsburgh, PA

"Cardiac Transplantation" Medical Center of Beaver County, Beaver, PA

"Tetralogy of Fallot" Clinical Correlations Conference, Pittsburgh, PA

"Heart-Lung Transplantation" Pulmonary Physiology and Medicine, Monroeville, PA

"Combined Heart-Lung Transplantation--The Pittsburgh Experience" PA Association for Thoracic Surgery, Clymer, NY

"Heart-Lung Transplantation" American College of Physicians, Pittsburgh, PA

"Heart and Heart-Lung Transplantation Using Cyclosporine, Low-Dose Prednisone, and Rescue Antithymocyte Globulin" Regional Red Cross Blood Bank--Groningen Drenthe Symposium, Amsterdam, Holland

"Cardiac Transplantation" American Heart Association--56th Scientific Sessions, Anaheim, CA

"ECMO--Past, Present, and Future" The American Society of Extracorporeal Technology, Philadelphia, PA

**1984**

"Building a Cardiac Transplant Program: Lessons Learned in Pittsburgh" Co-Director of Seminar, University of Pittsburgh, Pittsburgh, PA

Primary discussant for paper entitled, "Heart-Lung Transplantation for Irreversible Pulmonary Hypertension" by S. Jamieson, et al The Society of Thoracic Surgeons, San Antonio, TX

"Heart-Lung Transplantation for Combined Cardiopulmonary Failure" Emergency Medical Service Institute, Monroeville, PA

"Heart and Heart-Lung Transplantation: The Pittsburgh Experience" 20th Annual Workshop in Medicine--Cardiology l984, Pittsburgh, PA

"Excellent Survival in Morbidly Ill Cardiac Transplant Recipients Supported by Intravenous Drips and Intra-aortic Balloon" American College of Cardiology, Dallas

"Heart-Lung Transplantation" Sarasota National Conference on Pediatric Lung Diseases, Sarasota, FL

"Current Clinical Status of Cardiac Transplantation" VA Medical Center and State University of New York, Buffalo, NY

"Heart-Lung Transplantation Today" St. Vincent Charity Hospital and Health Center, Cleveland, OH

"Targeted Cyclosporine Blood Levels for Cardiac Transplantation" American Association for Thoracic Surgery, New York, NY

"Heart-Lung Transplantation and Cystic Fibrosis" Current Research in Cystic Fibrosis--Conference, Minneapolis, Minn.

"Heart and Heart-Lung Transplantation" Interurban Club Meeting, Pittsburgh, PA

"Transplantation" Symposium, American College of Chest Physicians, Dallas, TX

"Present Status of Cardiac Transplantation" American College of Surgeons, San Francisco, CA

"Present Status of Cardiac Transplantation" Lakewood Hospital, Cleveland, OH

**1985**

"Asynchronous Rejection of Heart and Lungs Following Cardiopulmonary Transplan­tation" The Society of Thoracic Surgeons, Phoenix, AZ

"Significance of Donor-Transmitted Disease in Cardiac Transplantation" International Society for Heart Transplantation, Anaheim, CA

"Heart and Heart-Lung Transplantation" Central Blood Bank, Pittsburgh, PA

"Animal Experimentation in Transplantation" Humane Forum, Carnegie Museum, Pittsburgh, PA

"Evolution of Cardiac Transplantation" Humana Heart Institute, Louisville, KY

"Current Status of Cardiac/Cardiopulmonary Retrieval and Transplantation" Midwest Organ Bank, Kansas City, MO

"Heart-Lung Transplantation, Challenges for the Future" l5th World Congress on Diseases of the Chest, Sidney, Australia

"Cardiopulmonary Transplantation Experience in Pittsburgh" l5th Annual Symposium of the Texas Heart Institute, Houston, TX

"The Current State of Heart Transplantation" l985 Autumn Symposium Co-sponsored by American Bentley and American Edwards, Orange County, CA

"Heart and Lung Transplantation, Present Status" Seminar, Reid Memorial Hospital, Richmond, IN

"Combined Heart-Lung Transplantation and Unilateral Lung Transplantation" American College of Chest Physicians, 5lst Annual Scientific Assembly, New Orleans, LA

"Cardiac Transplantation" American Heart Association, 58th Annual Scientific Sessions, Co-Chairman with Dr. Robert Karp, Washington, DC

**1986**

"Heart-Lung Transplantation: Lessons Learned, Future Hopes" Society of Thoracic Surgeons, 22nd Annual Meeting, Washington, DC

"Current Status of Cardiac Transplantation" American College of Cardiology, Annual Scientific Session, Atlanta, GA

"Cardiac Transplantation--Emerging From an Experiment to a Service" American Surgical Association, Homestead, VA

"Mechanical Cardiac Support" Grand Rounds, Med College of Virginia, Richmond, VA

"Cardiac Transplant Symposium" American Society of Transplant Physicians, Chicago, IL

"Heart-Lung Transplantation--Hope, Promise, Reality" International Symposium, New Horizons in Children's Congenital Heart Disease, The Hospital for Sick Children, Toronto, Ontario, Canada

"Heart-Lung Transplantation" Symposium, Methodist Hospital of Indiana, Indianapolis, IN

"The Pittsburgh Experience with Heart Lung Transplantation" 52nd Annual Scientific Assembly, American College of Chest Physicians, San Francisco, CA

"The Artificial Heart: Bridge to Cardiac Transplantation" Eurotransplant Foundation, Leiden, The Netherlands

"Heart Transplantation" University Hospital, Louvain, Belgium

"Artificial Heart Implantation and Heart Transplantation in the Failing Heart" l6th Annual Cardiology Symposium, Borgess Medical Center, Kalamazoo, MI

"Jarvik-7 Total Artificial Heart" Emergency Medical Service Institute, Pittsburgh

"Cardiac Transplantation--Medical Management and Long-Term Follow-up" Plenary Sessions of 59th Annual Scientific Sessions, American Heart Association, Dallas, TX

**1987**

"Heart and Heart-Lung Transplantation" International Heart Valve Replacement Symposium, Lanzarote, Canary Islands, Spain

"Immunosuppressive Regimens in Heart Transplantation" University of Arizona, Tucson, AZ

"Heart-Lung Transplantation" 7th Annual Scientific Session, International Society for Heart Transplantation, New Orleans, LA

"Current Status and Results of Cardiac and Heart-Lung Transplantation" 36th Annual Scientific Session, American College of Cardiology, New Orleans, LA

"Heart-Lung Transplantation" University of Utah, Salt Lake City, UT

"Transplant and Circulatory Support--Results in Pittsburgh" Sarns/3M Technical Excellence Ceremony, Detroit, MI

"Heart-Lung Transplantation" Conference on Transplantation: Pathology and Host Responses, Pittsburgh, PA

"Cardiac Transplantation-l987" American College of Cardiology, Hilton Head, SC

"Futuristic Possibilities: From CPR and Cardiopulmonary Bypass to Artificial Heart and Transplantation" International Resuscitation Research Symposium, University of Pittsburgh, Pittsburgh, PA

"Jarvik-7 Total Artificial Heart" Lutheran Hospital, Fort Wayne, IN

"Approaches to Lung Transplantation in Europe and North America" American Thoracic Society, New Orleans, LA

"Bridge to Heart Transplantation" 33rd Annual Meeting of ASAIO, New York, NY

"Heart-Lung Transplantation" Eastern Surgical Society, Pittsburgh, PA

"Cardiopulmonary Transplantation--Growing Pains" Cardiac Transplant Con­ference, Henry Ford Hospital, Detroit, MI

"Total Artificial Heart as a Bridge to Transplantation" Heart and Vascular Institute Rounds, Henry Ford Hospital, Detroit, MI

"Changing Face of Cardiac Transplantation" New England Deaconess Hosp, Boston, MA

"Lung Transplantation" Fourteenth Annual Seminar in Pulmonary Physiology and Medicine, Pittsburgh, PA

"The Artificial Heart: Infection-Related Morbidity and Its Effect on Trans­plan­tation" 23rd Annual Meeting, Society of Thoracic Surgeons, Toronto, Canada

"Mechanical Support as a Bridge to Transplantation" Heart Assist Devices and Heart Replacement Conference, Minneapolis Heart Institute, Min­neapolis, MN

"Current Status of Cardiac Transplantation" Latrobe Area Hospital, Latrobe, PA

"Patient Selection and Organ Preservation" 53rd Annual Scientific Assembly, American College of Chest Physicians, Atlanta, GA

Speaker - American Heart Association, 60th Scientific Sessions, Anaheim, CA

Visiting Professorship - Cardiothoracic Surgery Grand Rounds, UCLA School of Medicine, Los Angeles, CA

Speaker - Grand Rounds, Johns Hopkins Hospital, Baltimore, MD

**1988**

"Heart and Lung Transplant: The Jarvik Conduit" "Commentary on Mitral Valvuloplasty" l9th Annual Cardiovascular Conference, American College of Cardiology, Snowmass, CO

Speaker - Circulatory Assist l988, Society of Thoracic Surgeons, St. Louis, MO

"Heart-Lung and Lung Transplantation" Thoracic Organ Transplantation Con­ference, Tucson, AZ

"Infectious Complications in the Management of the Pulmonary Patient" Lenox Hill Hospital, New York, NY

Speaker - 8th Annual Meeting, International Society for Heart Transplantation, Los Angeles, CA

"Cardiac Transplantation and the Artificial Heart" Osaka University Medical School, Osaka, Japan

"Immunologically Mediated Disease of the Airways After Pulmonary Transplanta­tion" American Surgical Association Annual Meeting, San Francisco, CA

"New Developments in Transplantation--Heart and Lung" 1st Canadian Conference on Cardiac Transplantation, Ottawa, Ontario, Canada

"Lung and Heart-Lung Transplantation--Hope, Promise, Reality" New York Society for Thoracic Surgery, Scientific Session, New York, NY

"Cardiac Transplantation" l988 Scientific and Educational Symposium of the Society of Critical Care Medicine, Orlando, FL

"Cardiac Transplantation at the University of Pittsburgh" Cardiostim, Monaco

"Heart Transplants" 39th Annual Meeting of Forsyth County Heart Association, Winston-Salem, NC

"The Pittsburgh Experience" American College of Surgeons, l988 Clinical Congress, Chicago, IL

**1989**

"Use of Artificial Devices for Bridging Patients to Cardiac Transplantation" SEOPF Heart and Lung Transplantation Symposium, New Orleans, LA

"Coronary Occlusive Disease Following Cardiac Transplantation" & "Long-Term Mechanical Circulatory Support--Status l989" 20th Annual Cardiovascular Conference, Snowmass, CO

"Transplant Updates: Heart-Lung, Lung" & "Infection in Mechanical Support" Thoracic Organ Transplantation Conference, Tucson, AZ

"Artificial Heart and Cardiac Transplantation" 53rd Annual Scientific Meeting of the Japanese Circulation Society, Nagoya, Japan

“American Surgical Association” Colorado Springs, CO

Discussion of paper entitled: "Evaluation of Heart-Lung Transplant Recipients with Prospective Serial Transbronchial Biopsies and Pulmonary Function Studies" by V.A. Starnes, M.D. Annual Meeting of the American Association For Thoracic Surgery, Boston, MA

"Cardiopulmonary Transplantation: Actual Experience at the University of Pittsburgh" 3rd International Symposium on Cardiac Surgery, Rome, Italy

Seminar: Thrombosis in Cardiac Assist Devices, University of Pittsburgh, Co-Director

"Lung and Heart-Lung Transplantation" Conference on Management of End-stage Cardiac and Pulmonary Diseases, University of Wisconsin, Madison, WI

Participant in workshop entitled: "Clinical Results of Internal and External Mechanical Bridging Before Cardiac Transplantation" Second International Workshop Meeting on Total Artificial Heart and Other Mechanical Circulatory Support Systems, Foundation Bullukian, Lyon, France

"Transplantation & Medical Assist Devices: What's Hot & What's Not!" Greater Miami Cardiology Mtg, American Heart Association, Miami, FL

Participant in the 62nd Scientific Sessions of the American Heart Association, New Orleans, LA

"Univentricular Support for Mortally Ill Transplant Candidates With Biventricular Failure" Cardiovascular Science and Technology Conference, Louisville, KY

"Organ Transplantation in the 1990s" The Carolinas Heart Institute Physician Holiday Conference, Charlotte, NC

**1990**

"Heart and Heart-lung Transplantation: Present and Prospective" Transplantation Symposium, Paris France

"Special Considerations in Lung Transplantation" Thoracic Organ Transplantation Conference, Tucson, AZ

"Experience with Univentricular Support in Mortally Ill Cardiac Transplant Candidates" 3rd International Symposium on Artificial Heart & Assist Devices, Tokyo, Japan

"Univentricular Support of Biventricular Failure as a Bridge to Transplant" Pathophysiology and Techniques of Cardiopulmonary Bypass Symposium, San Diego, CA

International Society for Heart Transplantation, Ft. Lauderdale, FL

American Heart Association, Salisbury on the Green, NY

Lung Transplant Seminar, Toronto, Ontario, Canada

"Current Results of Heart Transplantation" "Use of An Assist Device As a Bridge to Transplantation" "Current Results and Long-Term Complications of Heart-Lung Transplantation" First International Symposium in Japan

"Heart Transplantation Overview" The Annual Cardiac Residents Program on Cardiovascular Surgery, Irvine, CA

"Cardiopulmonary Transplantation - Indications and Techniques" Postgraduate Course on Thoracic Surgery, American College of Surgeons, San Francisco, CA

"Latest Developments in Heart and Heart-Lung Transplantation" First Annual Cardiac Surgery Fellows Symposium, Minneapolis, MN

**1991**

Westmoreland Hospital Grand Rounds, Greensburg, PA

"Current Choices of Mechanical Circulatory Support" and "Current Status of Heart and Lung Transplantation: Comments on New Immunosuppressive Agents" 22nd Annual Cardiovascular Conference at Snowmass, CO

"Clinical Effects of New Drugs in Cardiothoracic Transplantation" Thoracic Organ Transplantation Symposium - 1991, Tucson, AZ

Chairman: Postoperative Care Panel Discussion: "Immunosuppression: Considerations & Technique" "Surveillance Techniques" Recipients Panel Discussion Techniques Panel Discussion Donors Presentation and Panel Discussion: "Donor Procurement" Immediate Postoperative Care Panel Discussion Lung Transplant Symposium, Cedars-Sinai Medical Center, Laguna Niguel, CA

"Recent Advances in Ventricular Assist Devices II" and Chairman of "Industry Speaks" ASAIO Annual Meeting, Chicago, IL

"Donor Procurement" **Heart Surgery 1991**, 4th International Symposium on Cardiac Surgery, Rome, ITALY

Program Director: Myocardial Assist Techniques Seminar I Round Table Discussions: "Device Selection" and "All Devices" Washington, D.C.

"Four Topics in Acute Coronary Care" University of Pittsburgh Medical Center, Pittsburgh, PA:

Course Director: Lung Transplantation, University of Pittsburgh School of Medicine and Medical Center, Pittsburgh, PA

Circulatory Support 1991, presentations: Panel III: Infections - Prophylaxis and Treatment; Right Heart Management During LVAD

"Progress in Pulmonary Transplantation and in the Artificial Heart" "Heart and Lung Transplantation" New York Cardiovascular Symposium, Major Topics in Cardiology Today and Progress Towards the Turn of the Century

**1992**

"Current Results: Heart-Lung Transplantation" American College of Cardiology 41st Annual Scientific Session, Dallas TX

"Pediatric Pulmonary Transplantation: 1985-1991 and the Clinical Trial of FK 506" American Association for Thoracic Surgery, Los Angeles, California

"Recent Developments in Heart-Lung and Lung Transplantation" 10th Collaborative Transplant Study and 100,000 CTS Transplants Symposium, Heidelberg, Germany

"Infection in the Bionic Man" FDA Infection Control Symposium, Bethesda, MD

**1993**

"Decade of Lung Transplantation—University of Pittsburgh" "Progress in Mechanical Circulatory Support—Insights of the Future" Medical College of Wisconsin, Milwaukee, Wisconsin

"How Do We Learn? Lessons From Lung Transplantation" Surgical Grand Rounds, University of Wisconsin Madison, Wisconsin

"How Do We Learn? Lessons From Lung Transplantation" Surgical Grand Rounds, University of Pittsburgh

"Decade of Lung Transplantation at the University of Pittsburgh" Surgical Grand Rounds, University of Wisconsin Madison, Wisconsin

"Post-Lymphoproliferative Disease" and "FK 506 Clinical Experience" Thoracic Organ Transplantation Meeting: Late Problems Following Heart Transplantation and Horizons in Cardiac Transplantation Tucson, Arizona

"Physician/Surgeon Perspective" ATS Workshop/Socio-economic Implications of Lung Transplantation, Session II: Centers of Excellence in Lung Transplantation Bethesda, MD

"A Decade of Lung Transplantation" American Surgical Association Baltimore, MD

"Anastomotic Pitfalls in Lung Transplantation" American Association for Thoracic Surgeons Chicago, Illinois

"Novacor—Current Long-term Use and Its Future Implications" World Symposium on Cardiomyoplasty and Biomechanical Assist Paris, France

"Heart Lung Transplantation: Indications and Technical Problems" Heart Surgery 1993 Rome, Italy

"Future Aspects of Lung Transplantation" Lung Transplant Seminar, Pittsburgh, PA

"Recent Advances in Lung Transplantation" Japanese Association for Thoracic Surgery, Sapporo, Japan

"Decision Process for Prosthetic Valve Selection" "University of Pittsburgh Experience with the St. Jude Medical Valve" Sapporo, Japan

"Heart Transplantation" Gunma Transplant Society, Gunma, Japan

"Progress in Transplantation and the Artificial Heart" 26th Annual New York Cardiovascular Symposium New York City

**1994**

"Heroic Revascularization in End-Stage Coronary Artery Disease" "Left Ventricular Assist Devices and Heart, Heart/Lung, and Lung Transplants" American College of Cardiology Cardiovascular Conference, Snowmass, Colorado

"Heart and Heart Lung Transplantation" Society of Critical Care Medicine, Orlando, Florida

"High-Risk Cardiac Surgery" Passavant Hospital, Pittsburgh, PA

"Pulmonary vs. Cardiopulmonary Transplant for Pulmonary Hypertension" “Irreversible Heart Failure: Indication for Artificial Heart and/or Transplant" International Symposium, Cardiology for the Consultant of Latin America Buenos Aires, Argentina September

"Ventricular Assist Beyond Intra-Aortic Balloon Pumping" Cardiac Residents' Program on Cardiovascular Surgery, Newport Beach, California

"Coronary Artery Bypass in High-Risk Patients" Cardiac Surgery: Current Issues Symposium, St. Thomas, Virgin Islands

"Return to the Reptilian Heart" Surgical Grand Rounds, University of Pittsburgh, Pittsburgh, PA

"Thoracic Organ Transplantation" Surgical Grand Rounds, Rush-Presbyterian/St. Luke's Medical Center, Chicago, Illinois December

**1995**

"Future Direction in Cardiac Replacement" Grand Rounds, University of Ottawa Heart Institute, Ottawa, Ontario, Canada January

"New Observations on Transmyocardial Revascularization Utilizing the Laser" "Current Status of Mechanical Circulatory Support and Long-Term Left Ventricular Assistance" Cardiovascular Conference at Snowmass, Colorado January

Moderator for Workshop VI "Bridge to Transplantation" Society of Thoracic Surgeons, Palm Springs, California January

"The Need for Accurate Risk-Adjusted Measures of Outcome in Surgery: Lessons Learned Through Coronary Artery Bypass" American Surgical Association, Chicago, Illinois April

"Comparison Between Tacrolimus and Cyclosporine-Based Immunosuppression in Clinical Cardiac Transplantation" American Society of Transplant Surgeons, Chicago, Illinois May

"Thoracic Organ Replacement—New Trends" Surgical Grand Rounds, Mt. Sinai Hospital, New York City May

"Experience With New Forms of Immunosuppression Following Thoracic Transplantation: FK506, Tolerance Induction" Rome, Italy May

"Thoracic Organ Replacement" Surgical Grand Rounds, Duke University Medical Center, Durham, N.C. September

"Short- and Long-term Care of the Cardiac Transplant Patient" and "Transmyocardial Lasers" Critical Care Update Meeting Orlando, Florida November

"ECMO Support for Failing Pulmonary Function" Cybercongress: Transplantation in the Next Millennium November

"Lung Transplantation--Triumphs and Travails" Surgical Grand Rounds, Cornell Medical Center, New York City December

**1996**

"Keyhole Cardiac Surgery" St. Francis Medical Center, Pittsburgh, PA January

"Trying to Catch our Breath" National Pediatric Cardiology Study Group, Telluride, Colorado February

Return to the Reptilian Heart--Transmyocardial Revascularization" 4th Annual Pacific Northwest Cardiovascular Symposium, Providence Seattle Medical Center, Seattle, Washington June

“Minimally Invasive Coronary Artery Surgery” Conference: State of the Art Treatment of Ischemic Heart

Disease, UPMC Station Square, Pittsburgh, PA September

“Lung Transplantation” Conference: Pulmonary Update, The Union Medical Hospital, University of Baltimore, MD October

“Cardiopulmonary Transplantation” The William B. Ford Memorial Lecture in Cardiac Surgery, Shadyside Hospital, Pittsburgh, PA November

“Minimally Invasive Cardiac Surgery: Today and in the Future” University of Colorado Health Sciences Center December

“FK506" Surgical Grand Rounds, University of Colorado, Colorado December

“The Tin Man Meets the Wizard” Surgical Grand Rounds, University of Chicago, Illinois December

**1997**

“Heart and Lung Retransplantation: Should it Be Done?” Debate at 17th annual scientific meeting of the International Society for Heart and Lung Transplantation - London, England April

“New Horizons in Cardiac Transplantation” Russian Embassy Debate, Washington, D.C. April

“Redo Cardiac Surgery in Relation to Cardiac Transplantation” Redo Cardiac Surgery in Adults Symposium - Washington, D.C. May

“Robotics and Surgery” 5th Congress of the International Society for Rotary Blood Pumps, Marseilles, France September

“Patient Management and Device Selection for Long-term Support” Member of Panel, Session 5, Society of Thoracic Surgeons’ 4th International Conference on Circulatory Support Conference, Houston, TX October

**1998**

“Treatment of Ischemic Cardiomyopathy: Revascularization or Transplantation” Meet the Experts Session of annual meeting of the Society of Thoracic Surgeons - New Orleans, La. January

“Current Status of Heart and Lung Transplantation in the United States” Organ Transplantation Forum, Tokyo, Japan February

18th Annual meeting and scientific sessions of the International Society of Heart and Lung Transplantation April

Primary discussant of paper entitled “Thirty Years of Cardiac Transplantation at Stanford University” by R.C. Robbins, M.D., at the annual meeting of the American Association for Thoracic Surgery, Boston, Mass. May

International Society for Minimally Invasive Cardiac Surgery Minneapolis, Minn. June

“Update on Minimally Invasive Coronary Artery Surgery” Guest Lecturer, Cardiology Lecture Series, UPMC Shadyside Pittsburgh, PA September

**1999**

“Can We Make CPB Systems Less Invasive? Evolving Techniques and Technologies in Minimally Invasive Cardiac Surgery” San Antonio, TX January

“Early Studies in Coarctation: The Bahnson Connection” National Pediatric Cardiology Study Group, Crested Butte, Colo. February

Invited Professor, Harbin Medical University, Harbin, Beijing, China February

“Heart Preservation: Short-term Implantable Devices as a Bridge to Transplantation” Debate on Organ Allocation-National & Permanent Implantable Devices Conference: Thoracic Transplantation 1999: Into the Next Millennium Vail, Colo. March

“Surgical Strategies: The Batista Operation and Left Ventricular Assist Devices” The Albert Einstein College of Medicine, New York, N.Y. April

PA Senate Public Health and Welfare Committee, Public Hearing on the Tobacco Settlement June

House of Representatives, Commonwealth of PA Health and Human Services Committee, Economic Development through the Tobacco Settlement Hearings June

Pitt Mini-Medical School: “The Beat Goes On: The Cardiovascular System and Circulatory Physiology” Pittsburgh, PA October

**2000**

“The Role of Minimally Invasive Cardiac Surgery in Today’s Practice” UPMC St. Margaret, Pittsburgh, PA March

“Are Two Lungs Better Than One” (con) Transplant 2000 Sunrise Symposium II Chicago, Ill. May

“Updating the Pittsburgh Experience on the Use of Tacrolimus” Current Perspectives in Cardiac Transplant Immunosuppression Roundtable, American College of Cardiology, Washington, DC June

“HeartMate II & III” Circulatory Support 2000, New York City September

Beginning 2001: Grand Rounds presentations to audiences consisting of faculty, residents, interns, and medical students at UMMC and regional hospitals, including St. Agnes, North Arundel, and Mercy, and national venues.

**2001**

“Cardiac Transplantation” “Artificial Heart and Lung” “Obliterative Bronchiolitis for Chronic Lung Rejection” 3rd Vail Conference: Cardiothoracic Transplantation: An International Update” Vail, Colorado February

“Towards ‘Tolerance’ by Bone Marrow After Heart and Lung Transplantation” American Society of TransplantationWinter Symposium Kohala Coast, Hawaii February

“Bioengineering from Didactics to Bedside . . . Lessons Learned Developing an Artificial Heart” Biomedical Engineering Seminar Series, Bucknell University, Lewisburg, PA April

“Artificial Heart and Lung” Bioartificial Organs Symposia, American Society of Transplantation Chicago, Il. May

“What’s New in Transplant Circulatory Support and Regenerative Cardiac Medicine” Cardiology Grand Rounds, UMMC, Baltimore, MD December

**2002**

*New Perfusion Technology*, STS/AATS TECH-CON 2002, Myocardial Revascularization Session, Ft. Lauderdale, Florida January

*Viral Problems in Cardiothoracic Transplant Patient*, Issues in Thoracic Surgery Transplantation Session, 38th Annual Meeting of the Society of Thoracic Surgeons, Ft. Lauderdale, Florida January

*Surgical Approaches to Congestive Heart Failure*, Medical Grand Rounds, Mercy Medical Center, Baltimore, MD April

*Review of Clinical Protocols*, Workshop #3 Tolerance: An Update, 22nd Annual Meeting and Scientific Sessions, ISHLT, Washington, DC April

*Ventricular Assist Devices in the Therapy of Advanced Cardiomyopathy*, Congestive Heart Failure Conference entitled “The Latest Advances in the Management of CHF” Hartford Hospital, Hartford, Connecticut. April

*Aspects of New Cardiac Surgery at University of Maryland*, Coronary Care Conference, North Arundel Hospital, Glen Burnie, MD April

*Cardiopulmonary Bypass*, Surgical Grand Rounds, University of Maryland, Baltimore, MD May

*New Era in Cardiac Surgical Care*, University of Maryland School of Medicine, Board of Visitors May

*Surgical Treatment of Congestive Heart Failure*, Medical Grand Rounds, St. Agnes Hospital, Baltimore, MD October

*Newer Options for End-stage Heart Failure,* Medical Grand Rounds, University of Maryland, Baltimore, MD October

*Progress in Surgical Treatment of Coronary Artery Disease,,* Medical Grand Rounds, Mercy Medical Center, Baltimore, MD November

*Mechanical Circulatory Support,* Anesthesia Grand Rounds, University of Maryland, Baltimore, MD December

**2003**

*Will implantable artificial lungs solve the problems of lung transplantation?*Symposium: Cardiac Surgery in the Future – What can be Expected, Munich, Germany January

*Toward an Implantable Lung*. American Society of Transplantation, Winter Symposium. Naples, Fla. February

*Tolerance Models in Non-Human Primates* and *Progress Towards Artificial Lungs as a Bridge or Alternative to Lung Transplantation* 4th Vail Conference: Cardiothoracic Transplantation 2003 Vail Colo. February

*Current Status of Total Artificial Heart & Left Ventricular Devices as Destination Therapy* Fourth Annual Multi-Organ Transplantation Symposium Evolving Clinical Strategies National Institute of Transplantation Los Angeles Heart Institute, St. Vincent Medical Center, Pasadena Calif. April

*Advances in the Treatment of Heart Failure* Symposium: Gibbon and his Heart/Lung Machine 50 Years and Beyond, Jefferson Medical College, Philadelphia, PA May

*The Future of the Treatment of Heart Disease: Surgical Perspective.* Gibbon and his Heart/Lung Machine 50 Years and Beyond, Jefferson Medical College, Philadelphia, PA May

*Strategies for Surgical Treatment of Heart Failure* Annual Coastal Cardiac Confrence sponsored by Peninsula Regional Medical Center, Ocean City, MD September

*Designing for Complication-Free VADs* Gordon Research Conference, Big Sky, Montana September

*Small Format VADs as Destination Therapy for Congestive Heart Failure* Controversies in Adult Cardiac Surgery Cedars-Sinai Heart Center, Santa Monica, Calif. October

*State of the Art in Cardiac Imaging* University of Maryland Medicine, Cambridge, MD October

*Cardiac Transplantation* No Bouondaries: State-of-the-Art Medical/Surgical Approaches to Advanced Heart Failure American College of Cardiology Foundation Uncasville, Conn. November

*Cardiac Repair, Mechanical Support, and Replacement* Cardiology Education Conference, Peninsula Regional Medical Center, Salisbury, MD November

**2004**

*Small Format VADs – Toward a Less Invasive Bridge and Destination Therapy.* Advanced Cardiac Techniques in Surgery (ACTS) 2004. Lenox Hill Hospital, New York, New York April

*A Surgeon’s View of the Future of Ventricular Assistance* Symposium: The Implantable Left Ventricular Assist Device: From Concept to Reality. Texas Heart Institute, Houston, TX May

*Ventricular assist devices – Pulsatile* General Session: The Past, Present and Future of Cardiac Support and Replacement Devices,ASAIO Conference, Washington, DC June

Development of mechanical circulatory support programmes for the UK: a consensus conference*. Co Chairman of Session 2 (Short-term Circulatory Support) Presenter in Session 4: Long-term treatment of heart failure.* Title*: The REMATCH and INTRePID trials.* Sponsored by the British Society for Heart Failure, Said Business School, Oxford, UK July

*Mitral Valve Repair for the Failing Heart: How Low is Too Low?* 3rd Annual Cardiology/Cardiac Surgery Conference: Heart Valve Symposium, Baltimore, MD October

**2005**

*The Artificial Lung: Progress Toward Ambulatory Artificial Lungs,*  25th Scientific Sessions of International Society of Heart and Lung Transplantation, Philadelphia, PA April

How Do You Mend a Broken Heart – Guest Speaker, American Heart Association, 9th Annual Research Roundtable Luncheon, San Diego, Calif. April

*How the Heart Heals* The Annual William S. Pierce Lecture, Hershey Medical Center, Hershey, PA May

*How Do We Learn?* The Hastings Lecture, ASAIO, Washington, DC June

*New Devices* LVADs Beyond REMATCH – Panel, 9th Annual Scientific Meeting, Heart Failure Society, Boca Raton, Fla. September

*Ventricular Assist Devices for Chronic Heart Failure – Destination and Bridge to Recovery* – TCT Interventional Heart Failure: Recent Developments and New Directions, Washington, DC October

*Evaluating Mechanical Support – VADs for Catheter Docs* – TCT ATI Satellite Symposium, Washington, DC October

**2006**

*Work in Progress: Healing the Heart at UMM –* Surgery Grand Rounds, University of Maryland School of Medicine, Baltimore, MD January

*How Little Do We Need and of What?* Satellite Symposium 5 – The Future: Low Flow Micro Devices for Advanced Heart Failure. ISHLT, Madrid Spain, April

*Post MI Remodeling: Molecular Insights to Best Surgical Therapy* Cardiac Surgery Biology Club, Philadelphia, PA April

*Progress Toward an Artificial Lung* World Transplant Congress, Boston, Mass. July

*The Next Generation of Left Ventricular Assist Devices* Modern Heart Failure: Medical, Device and Surgical Innovations, Allegheny General Hospital, Pittsburgh, PA September

*Innovations in Cardiac and Lung Transplant* Advances in Transplantation, Washington, DC October

*VentrAssist* Contemporary Clinical Experience with Newer Pumps 21st Century Treatment of Heart Failure: Synchronizing Surgical and Medical Therapies for Better Outcomes, Cleveland Clinic, Cleveland, Ohio October

*Surgical Approach to Coronary Artery Disease: What Radiologists Need to Know* American College of Radiology, Reston, VA October

*Novel Promising Technology in Pediatric Cardiac Support*  1st European Mechanical Circulatory Support Summit of la Pitie-Salpetriere and Heart Center NRW at Bad Oeynhausen, Germany December

**2007**

*Continuous Flow Devices: Impella* Satellite Symposium I: New Mechanical Circulatory Support (MCS Technology International Society for Heart and Lung Transplantation, San Francisco, CA April

*Management of Advanced Heart Failure and Pulmonary Hypertension: Where is the Paradigm Now?* Advanced Heart Failure/Pulmonary Hypertension Symposium, University of Maryland Medical Center, Baltimore, MD May

*Infant and Child-Size Jarvik 2000 Hearts* Third International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion Hershey, PA May

*Cardiogenic Shock: Therapies to Improve Survival* Advances in Cardiac & Endovascular Therapies Symposium Session: LVAD Implantation and Transplantation. New York City October

*Options for the Non-Revascularizable Patient/Interventions for CHF – Drugs and Devices* Advances in Cardiac & Endovascular Therapies Symposium Session: Ultimate Intervention: Cardiac Transplantation New York City, October

*Novel Epicardial Patch for Angiogenesis: Initial Clinical Observations* Transcatheter Cardiovascular Therapeutics Symposium Washington, DC October

*A minimally Invasive Micro-Assist Technology for Class III and Early Class IV Congestive Heart Failure: Circulite* Transcatheter Cardiovascular Therapeutics Symposium Washington DC October

**2008**

*Preservation Systems for Organ Transplantation* ISHLT, Boston, MA April

*Minimally Invasive Assist Device, CardioLite* ISMICS 2008 – State of the Art Session Boston, MA June

*New Ventricular Assist Devices* 12th Annual Scientific Meeting, Heart Failure Society of America, Toronto, Ontario, Canada September

*Decisions to Make in Your Career: What Makes a Difference* Keynote Speaker 31st Annual Medical Student Research Day, University of Maryland Baltimore September

*1) Tricuspid Regurgitation: When and How to Treat*; *2) Impella 6.0 Cardiogenic Shock and 3) Review of Surgical Ventricular Assist Devices: Present and Future* Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics (TCT), Washington, DC October

*STS Database/Surgical Atrial Fibrillation* Clinical Applications and Beyond, New York City, December

**2009**

*Ventricular Assist Devices: Practical Update on Difficult Case Management (Panel; 2) Pumping the Donor Heart; 3) Use of Campath to Limit Immunosuppression in Lung Tranplant Recipients; 4) Device Development (Heart, Lung, Pediatric); 5) Xenotransplanation* 7th Cardiothoracic Transplantation Conference, February

*New Inspiration for Artificial Respiration* Invited Speaker 3rd Annual James A. Magovern Memorial Lecture, Amelia Island, FL, February

*Grant Writing Workshop, AATS*, Bethesda, MD March

*Development of the Artificial Lung* Latner Lecture, University of Toronto, Toronto, Ontario, Canada, April

*Cell Therapy in Post-Infarction Remodeling* International Society for Heart Research, 2009 North American Section Meeting, Baltimore, MD May

Moderator: *Cardiovascular Stem Cells.* 2009 World Stem Cell summit, Baltimore, MD September

*Progress in Artificial Respiration.* NortheastCardiothoracic Surgical Society, East Madison, NH, October

**2010**

*Bridge Over Troubled Waters: ECMO to Lung Transplantation* American Society of Transplant Surgeons, 10th Annual State of the Art Winter Symposium, Fort Lauderdale, FL, January

*What’s Hot! Best Abstracts from Mechanical Circulotory Support, Heart Transplantation, Lung Transplantation*

30th Annual Meeting, International Society for Heart and Lung Transplantation, Chicago, IL, April

*ECMO from Heart-Lung Machine to Therapeutic Tool: Historical Overview* and *ECMO as a Bridge to Lung Transplant.* First International Congress on ECMO Therapy, Penn State Hershey College of Medicine, Harrisburg PA, May

*Using ECMO as an Ambulatory Bridge to Lung Transplantation.* ASAIO 56th Ann Conf, Baltimore, MD May

**2011**

*Emerging and Novel Therapies for Lung Support.* STS/AATS Tech-Con 2011, Joint Session II: Pulmonary Support and Lung Transplantation. San Diego, CA January

*Living Human Fibroblast-Based Tissue Improves LV Perfusion & Function.* Parallel Surgical Forum IV: Basic Science Research – Adult Cardiac, 47th Annual Meeting of the Society of Thoracic Surgeons, San Diego, CA January 31-February 2, 2011

*Keynote Lecture: Lung Reconstruciton for Advanced Lung Disease: Is it the future?* Right Heart Failure Summit 2011, Baltimore, MD May 6-7, 2011

*Is Transplantation Still the Gold Standard for Advanced Heart Failure?* Keynote Speaker. Tenth Annual Symposium on Heart Failure and Cardiac Transplantation: Heart Failure at the Shoe X. Ohio State Medical Center, Columbus, OH November

**2012**

*The Eggs May Be Teaching the Chickens.* Kent Trinkle Education Lectureship, 59th Annual Meeting, Southern Thoracic Surgical Association, Naples, FL November

**2013**

*When Clots Go to the Lungs, Bad Things Happen.* Surgery Grand Rounds, University of Rochester Medical Center November

*Tinker Toy Science*  Festival of Science, University of Maryland School of Medicine November

*Newest Interventional Devices for Heart Failure* and (2) *Best Timing to Transplant VAD Patients: VAD Patients Should Have Priority on the Waiting List (*con) 8th European Mechanical Circulatory Support Summit, Paris, France December

**2014**

*(1) Ex-Vivo Lung Perfusion.* STS Tech-Con Joint Session- Transplantation, Cellular Repopulation, Donor Organ Perfusion and Extracorporeal Life Support for Review (2) *Minimally Invasive LVADs: CircuLite.* Adult Cardiac Track III. Next Generation Devices for Durable Mechanical Circulatory Support, STS-Tech-Con 2014 Orlando, FL January

Anesthesia Grand Rounds, University of Maryland School of Medicine January

*Short-Term Mechanical Unloading to Recover the Acutely Failing Heart: Calcium Cycling and Other Mechanisms.* U-CARS Utah Cardiac Recovery Symposium. University of Utah School of Medicine February

*Ex-Vivo Donor Heart Support: Expanding Availability and Optimizing Function (Co-Chair)* and *Ex-Vivo Lung Perfusion (EVLP): Evolving Strategy for Improved Donor Lung Management.* Pre-Meeting Symposium of International Society for Heart and Lung Transplantation, 34th Annual Meeting & Scientific Sessions, San Diego, CA April

*Implantation of Contemporary Ventricular Assist Devices.* Session: Adult Cardiac Skills & Decision Making: Pearls & Pitfalls in Operative Technique. 94th Annual Meeting, American Association of Thoracic Surgery, Toronto, Ontario, Canada April

Presentation Transcatheter Cardiovascular Therapeutics Symposium, Washington, DC, **September**

*How Small Can You Go?* Invited Speaker, Eastern Cardiothoracic Surgical Society Meeting, Palm Beach, FL **October**

**2015**

*Traumatic Aortic Isthmus Rupture: Always an Emergency.* Session: Adult Cardiac Surgery Symposium, Decision-Making in Adult Cardiac Surgery. 95th Annual Meeting, American Association of Thoracic Surgery, Seattle, WA April

*Surgical treatment of acute and chronic thromboembolic pulmonary* *disease*. Washington University, Seattle, WA September

*Let’s Take a Breath …Towards an Artificial Lung* Board of Visitors, University of Maryland School of Medicine October

*ECMO and the Artificial Lung* Medical Grand Rounds, George Washington University, Washington DC and *VADs-Getting Smaller and Better*, Medical Grand Rounds, DC Veterans Affairs Medical Center, Washington DC November

**2016**

Discussant of paper presented at American Association for Thoracic Surgery titled: *Towards making lung transplantation a semi-elective procedure: Outcomes following clinical lung transplantation with over 12 hours of preservation time*. Plenary Scientific Session May 17, 2016

*Hickory Dickory Doc – Back to a Beginner’s Mind.* Surgical Grand Rounds. The Dr. Robert W. Buxton Lecture & Symposium, University of Maryland School of Medicine, June 23, 2016

**2017**

Moderator - Adult ECMO Symposium, Baltimore, MD February 2017

Speaker, Penn Medicine Adult ECMO Symposium 2017, Philadelphia, PA March 31-April 1, 2017

American Association for Thoracic Surgery:

Small Business Innovation Research (SBIR) and NIH for Your Idea; Panel discussion: How to Prototype and What to Do with It: Gain Momentum Through the Gap; 2) *Artificial Lung Development: Current Status and Future Development*,Boston, MA, April 29-30, 2017

*Artificial Lung* 28th Annual ELSO Conference.Baltimore, MD September 25, 2017

**2018**

*How Far Are We From the “Wearable Lung?”* AATS Mechanical Circulatory Support Symposium 2018, Concurrent Session VIIb: ECLS for Resporatory Failure – Pushing the Boundries, Houston Texas, March 8-9, 2018

Moderator, American Association for Thoracic Surtery: Circulatory Support Symposium 2018 – Concurrent Session IXb: Other Applications for ECLS in Thoracic Surgery, Houston, TX, March 8-9, 2018

*Present and Future Direction of ECMO* and Panel Discussion with Q&A.Penn Medicine Adult ECMO Symposium 2018. Philadelphia, PA, May 11-12, 2018 CME: 15.0 AMA PRA Category 1 credits

1. *Establishing the University of Pittsburgh Cardiothoracic Transplant Program.*
2. *Innovation Debate: New Frontiers in ECMO Bridging. The Pittsburgh Approach: William Federspiel, PhD. The MD Approach:* ***Bartley P. Griffith, MD***

3rd Annual UPMC Lung Transplant Symposium, September 27-28, 2018

**2019**

Caring for Heart Failure Patients Session: Beyond Stage D – Mechanical Circulatory Support and Heart Transplantation. Round Table Panel Discussion*: Current Challenges and Patient Management: The Surgeon’s Approach.* January 18, 2019 CME 5.75 AMA/PRA

Keynote Address*: Can ECMO be More Than Rescue?* Lecture: *The Future of Mechanical Circulatory Support*. 4th Annual O.H. Bud Frazier Transplant Roundup, Houston, TX, March 29, 2019

*Intermediate term Commence data demonstrate favorable safety and hemodynamic performance of Edwards’ RESILIA tissue*. Presented at the AATS 99th Annual Meeting, Toronto, Ontario, Canada; May 7, 2019

Debate: *Pediatric Class III Cardiovascular Devices; Are they Commercially Viagle: Pro: Harvey S. Borovetz, PhD; Con: Bartley P. Griffith, MD*

6TH International Conference on Clinical and Engineering Frontiers in Pediatric and Congenital Heart Disease

The Children’s Hospital of Philadelphia, Colket Translational Research Building, Philadelphia, PA May 10, 2019

*Hank Bahnson: A Gatherer and Enabler of Genius* Annual Henry T. Bahnson Invited Lecture. University of Pittsburgh Medical Center, Pittsburgh, PA May 14, 2019

**2020**

*Bumper Car Innovation of Heart Pumps and Mechanical Lungs* Lillehei Lecture,Society of Thoracic Surgeons 56th Annual Meeting, New Orleans, LA January 28, 2020

*Implantable Artificial Lung* Innovation Award in Mechanical Circulatory Support, American Association for Thoracic Surgery’s Mechanical Support for the Heart and Lung Symposium: New Devices and Techniques Houston, TX February 14-15, 2020

**2021**

*Development of Ambulatory ECMO* STS 21 Embracing Innovations: Plenary Session: Shark Tank (lecture won the Shark Tank). Society of Thoracic Surgeons annual meeting, January 2021 CME: 15.50

*May the Force Be with You: Walking and Talking on ECMO.* International Society of Heart & Lung Transplantation annual meeting, April 2021

*Pulmonary Thromboendarterectomy in CTEPH Patients.* Cardiothoracic Surgery Grand Rounds (virtual), Northwell Medical Center, Manhasset, NY April 2021 CME: 1.0

*Abiomed BREETHE ECMO System.* Pioneer Award, American Association of Thoracic Surgery annual meeting, May 2021

*Cardiac Xenotransplantation*  Pulmonary Grand Rounds Conf, University of Maryland SOM, May 25, 2021

*Current Progress for Xenotransplant of the Heart: Will It Be a Clinical Reality Soon?* Smidt Heart Institute Department of Cardiology Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, CA The Thomas D. Gordon Visiting Professorship, September 28, 2021 CME:

**2022**

*Xenotransplantation* Cardiothoracic Surgery Grand Rounds, Duke University (virtual) January 12, 2022

*Cardiac Xenotransplantation* Department of Surgery Grand Rounds *Special Event*, University of Maryland School of Medicine January 20, 2022

*Genetically Modified Xenotransplantation: The Future is now.* Society of Thoracic Surgeons; New Frontiers in Transplantation (virtual) January 30, 2022

*Xenotransplant – A conversation with Dr. Bartley Griffith* Technology & heart Failure Therapeutics (THT) February 2, 2022

*Cardiac Xenotransplantation 2022.* Cardiovascular Medicine Grand Rounds, Division of Cardiovascular Medicine, University of Maryland School of Medicine February 17, 2022

*Cardiac Xenogransplanation 2022* OTO-HNS Grand Rounds, Division of Otorhinolaryngology – Head & Neck Surgery, University of Maryland School of Medicine February 24, 2022

*Xenotransplantation 2022* Mayo Clinic Arizona Cardiothoracic Surgery Virtual Grand Rounds February 24, 2022

*Cardiac Xenotransplantation* University of Maryland Baltimore, Board of Trustees Meeting March 3, 2022

*Recognition of Xenotransplantation* University of Maryland Medical Center*,* Board of Directors, March 22, 2022

*Cardiac Xenotransplantation* University of Maryland School of Medicine Council Meeting, March 23, 2022

*Cardiac Xenotransplantation* Perelman School of Medicine, University of Pennsylvania (virtual) March 31, 2022

*Behind the Knife – Xenotransplantation*  Cleveland Clinic Foundation April 6, 2022

*Xenotransplantation: Pig-to-Human Heart Transplant* AST Timely Topics in Transplantation (T3) Webinar April 20, 2022

*Is the Future Here and Now? Celebrating a Medical Breakthrough: Xenotransplantation.* Mass General Brigham, Boston, MA, April 30, 2022

*Xenotransplantation is Not Around theCorner Anymore: The First Pig-to-Human Heart Transplant.* Keynote Lecture on Innovation*.* Plenary Session, American Association for Thoracic Surgery, Boston, MA, May 15, 2022

Philanthropic Fundraising Effort

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| William G. McGowan Charitable Fund | $2.8 million |
| Commonwealth of PA  Ben Franklin Partnership | $2.5 million |
| Heinz Endowments | $2 million |
| R.K. Mellon Foundation | $2 million |
| Commonwealth of PA  Opportunity Grant | $750,000 |
| Anonymous Foundation | $1 million |
| William G. McGowan Charitable Fund | $700,000 |
| Anonymous Foundation | $1.5 million |
| Hillman Foundation | $300,000 |
| Mario Lemieux Foundation | $300,000 |
| Jewish Healthcare Foundation | $200,000 |
| St. Jude Medical | $100,000 |
| Frank and Mary Jo Spinola | $100,000 |
| Alcoa Foundation | $50,000 |
| Grable Foundation | $150,000 |
| Audrey Hillman Fisher Foundation | $30,000 |
| McGowan Advisory Council  Aggregate of individual gifts | $25,800 |
| Family of Douglas Grymes | $100,000 |
| Hales Family Foundation | $2.5 million |
| Deangelos/Hales/State of MD | $2.5 million |
| Meyer Family | $750,000 |