

Date of Preparation: October 29, 2022

Personal data:

Name: **Charles Chostner Marboe, M.D.**
Birthdate: May 16, 1950
Birthplace: Bellefonte, PA
Citizenship: United States

Academic Training: Princeton University, Princeton, NJ, A.B., 1971
Pennsylvania State University College of Medicine, PA
M.D., 1976

Licensure: New York, 1977 (Certificate 131450, active)
California, 1993 (License G77162, active)
New York State Department of Health, Certificate of
Qualification as a Laboratory Director (Cytopathology,
Histopathology, General – Certificate MARBC1),
1992 – 2021

Traineeship:

Internship: Presbyterian Hospital in the City of New York,
July 1976 - June 1977, Pathology

Residency: Presbyterian Hospital in the City of New York,
July 1977 - June 1980, Pathology
Chief Resident, 1977 - 1978

Board Qualification: American Board of Pathology (Anatomic Pathology), 1981

Military Service: None

Professional Organizations and Societies:

American Society for Investigative Pathology, 1981 - 2021
American Association for the Advancement of Science, 1985 - present
Association of the Directors of Anatomic and Surgical Pathology, 1996 - 2009
International Society for Heart and Lung Transplantation, 1983 - present
Society for Cardiovascular Pathology, 1985 - present
United States and Canadian Academy of Pathology 1990 – present
Trustee, The New York Pathological Society, 2004-2012

Academic Appointments:

Research Associate, Department of Pathology, Pennsylvania State University
College of Medicine. Perinatal Mortality Project, Addis Ababa, Ethiopia,
1974-1975.

Staff Associate, Department of Pathology, College of Physicians & Surgeons of Columbia University, 1980 - 1981
Assistant Professor of Pathology, Columbia University, 1981 - 1988
Associate Professor of Clinical Pathology, Columbia University, 1988 - 1993
Associate Professor of Pathology and Surgery, University of Southern California School of Medicine, 1993 - 1996
Professor of Clinical Pathology, Columbia University, 1996 – 2013
Professor of Pathology and Cell Biology at Columbia University Medical Center, 2013 – 2021
Professor Emeritus and Special Lecturer, Department of Pathology and Cell Biology, Columbia University Irving Medical Center, 2021 – present

Hospital Appointments:

Assistant Attending Pathologist, Presbyterian Hospital in the City of New York, 1981 - 1988
Associate Attending Pathologist, Presbyterian Hospital in the City of New York, 1988 - 1993
Medical Staff, USC-University Hospital, Los Angeles, California, 1993 - 1996
Medical Staff of Children's Hospital Los Angeles, Associate in Anatomical Pathology, 1993 - 1996
Medical Staff of USC/Kenneth Norris Jr. Comprehensive Cancer Center and Hospital, 1995 - 1996
Attending Pathologist, NewYork-Presbyterian Hospital, Columbia University Medical Center, 1996 – 2021

Departmental and University Committees:

Director, Residency Training Program, Department of Pathology, College of Physicians & Surgeons of Columbia University, 1996 - 2021
Vice-Chairman for Education and Professional Development, Department of Pathology and Cell Biology, 2009-2021
Vice-Chairman and Director of Anatomic Pathology Services, Department of Pathology, College of Physicians & Surgeons of Columbia University, 1996 - 2009.
Faculty Council of the Faculty of Medicine, Columbia University, voting member, 1998 - 2018.
Executive Committee of the Faculty Council of Medicine, Columbia University, elected to 2 year terms, 2000 – 2002 and 2015-2017
Billing Compliance Officer, Department of Pathology, 1997 – 2021
Steering Committee, Office of Billing Compliance, Columbia University, Health Sciences, 2000 – 2021
Finance Committee, Faculty Practice Organization, Columbia University, Health Sciences, 2003 – 7.

Teaching Experience:

Lectures in pulmonary and cardiovascular pathology to second year medical

students, Columbia University, 1981 - 1993 and 1996 - 2021, and University of Southern California, 1993-1996.

Lectures on histology of the cardiovascular system to first year medical students. Columbia University, 2005-2021.

Instructor in laboratories, second year medical students, Columbia University, 1981 – 1993 and 1996 – present, and University of Southern California, 1993 – 1996.

Lectures in “Lipoproteins and Atherosclerosis” course for combined program for Ph.D. graduate students, Course directors Alan Tall and John Loike, Columbia University, 2008- 2021

Lectures in Path G4001: Cellular Tissue and Architecture for PhD graduate students, section on “Heart & Vasculature,” Course directors Ann—Judith Silverman, James Goldman, Ron Liem, Columbia University, 2010 – 2021.

National University of Rwanda, design and implementation of a curriculum for an MMed in Histopathology Programme (post-doctoral residency training program in anatomic pathology), 2013-2018

Acting course director, second year pathology course, Columbia University 1988.

USC School of Medicine Circulation System Curriculum Revision Task Force, 1995 - 1996.

Quarterly conferences with Cardiology Fellows, Columbia University Medical Center, on topics in Cardiovascular Pathology, 1996 – 2021.

Other Professional Activities:

OPTN/UNOS Ad Hoc Disease Transmission Advisory Committee, July 1, 2018 – June 30, 2021, and July 1, 2021 – June 30, 2024 (sequential terms)

OPTN/UNOS Biopsy Standards Workgroup, May 23, 2020- 2021

Cardiothoracic Surgical Trials Network, Biorepository Committee, 2017-2021

Editorial Board member, Journal of Cardiovascular Pharmacology, 2001-2010

Editorial Board member, Cardiovascular Pathology, 2001-present

Program Committee, FASEB, 1999-2001

Reviewer, Human Pathology, 1985-present

Reviewer, Journal of Cardiovascular Pharmacology, 1994 – 2020.

Reviewer, Journal of Heart and Lung Transplantation, 1993 - present

Heart Rejection Study Group, International Society for Heart and Lung Transplantation, 1990 – 2021,

Chairman, Finance Committee, Society for Cardiovascular Pathology, 1988-1996

Pediatric Pulmonary and Cardiac Complications of Vertically Transmitted HIV Infection, NHLBI; Member of Pathology and Immunology/Infectious Disease Subcommittees, 1991 - 1996

Syntex Development Research, Palo Alto, CA. Central Pathology Panel for Mycophenolate Mofetil Study No. 1864, 1994

Therakos, Johnson & Johnson, West Chester, PA., Core Pathology Laboratory for the study: The UVAR Photopheresis System in Conjunction with UVADEX for the Prevention of Cardiac Allograft Rejection, 1995

Patent Application

62/163,162 Christine P. Hendon, Rajinder P. Singh-Moon, Charles C. Marboe; The Trustees of Columbia University in the City of New York: Near-Infrared spectroscopy integrated catheter arrangement for characterization of myocardial tissues and methods of use thereof.

Invited Lectures (selected):

Visiting Professor, Children's Hospital of Philadelphia, March 21, 2007, Host: Wayne Hancock, MD, PhD. Seminar Topic: "How do we diagnose heart transplant rejection?"

United States and Canadian Academy of Pathology, Pulmonary Pathology Society, "Pathology of Lung Transplantation, San Diego, CA, March 24, 2007.

United States and Canadian Academy of Pathology. Co-chair for session "Cardiovascular Pathology," San Diego, CA, March 27, 2007.

Gondar University Medical School, Gondar, Ethiopia, "Hepatitis," June 23, "Cirrhosis," June 24, 2008.

Division of Pediatric Cardiology, Columbia University Medical Center, "Heart Transplant Pathology," July 25, 2008.

Department of Medicine, Division of Cardiology, "Heart Transplant Pathology," January 22, 2009.

The Art and Science of Surgical Pathology, Continuing Medical Education course, "Lung Transplant Pathology," Mt. Sinai School of Medicine, April 25, 2009.

University of Nairobi School of Medicine, Dept. Human Pathology, Kenyatta National Hospital, Nairobi, Kenya. "Heart Transplant Pathology," July 23, 2009.

Aga Khan University Hospital, Departments of Pathology and Medicine, Nairobi, Kenya, "Heart Transplant Pathology," July 27, 2009.

Aga Khan University Hospital, Department of Pathology, Nairobi, Kenya, "Pathology of Atherosclerosis," February 2, 2010.

Columbia University 12th Annual Echocardiography Conference: State-of-the-Art 2010, "Introduction to Three-dimensional Cardiac Anatomy," April 30, 2010.

Stanford University Medical Center, Department of Pathology Grand Rounds, "Pathology in Sub-Saharan Africa: Can we help?" Stanford, CA, October 25, 2011.

New York University Medical Center, Department of Pathology Grand Rounds, "Pathology in Sub-Saharan Africa: Can we help?" New York, NY, December 5, 2011.

King Faisal Hospital, Kigali, Rwanda, Department of Pathology Grand Rounds, "Atherosclerosis: Pathogenesis and Complications," February 6, 2012.

King Faisal Hospital, Kigali, Rwanda, Department of Cardiology Grand Rounds, "Cardiomyopathies," February 7, 2012.

King Faisal Hospital, Kigali, Rwanda, Department of Medicine Grand Rounds, "Atherosclerosis," February 6, 2013

Columbia University 15th Annual Echocardiography Conference: State-of-the-Art 2013, "Introduction to Three-dimensional Cardiac Anatomy," April 3, 2013.

International Society for Heart & Lung Transplantation, 33rd Annual Meeting, Pediatric Heart Transplantation Symposium, "Antibody Mediated Rejection Diagnosis by Histopathology," April 23, 2013.

Thoracic Pathology New York City 2013, Memorial Sloan-Kettering Cancer Center, "Pathology of Lung Transplantation," September 21, 2013.

King Faisal Hospital, Kigali, Rwanda, Hospital-wide CME lecture, "Heart Transplantation: Current Status – Clinical and Pathology," February 6, 2014.

Thoracic Pathology New York City 2015, Memorial Sloan-Kettering Cancer Center, "Pathology of Lung Transplantation," September 13, 2015.

Visiting Professor, Department of Pathology, University of Colorado Denver, "Unknowns" conference with residents and Grand Rounds "Lung Transplant Pathology: Old and New." December 10-11, 2015.

Invited participant at "Clinical Trial Design for Diagnostic Genomic Testing in Solid Organ Transplantation: From Bench-to-Bedside," NIH, NHLBI, December 1-2, 2016.

Thoracic Pathology New York City 2017, Memorial Sloan-Kettering Cancer Center, "Pathology of Lung Transplantation," September 16, 2017.

Invited panelist, Lindenauer Distinguished Speaker Series, Weinberg Family Cerebral Palsy Center, Columbia University Medical Center, "Cerebral Palsy and Genetics: Learning What We Don't Know," June 1, 2018.

Invited panelist, "Implementing PIER (Pathology Informatics Essentials for Residents): More tales from the trenches," Association of Pathology Chairs, 2018 Annual Meeting, San Diego, CA, July 17, 2018.

Visiting Professor, Joe DiMaggio Children's Hospital, Memorial Regional Health Care System, Hollywood, FL, January 24-25, 2019.

American Society for Histocompatibility and Immunogenetics/Banff Foundation for Allograft Pathology (ASHI/Banff) Joint Scientific Meeting, Pittsburgh, invited speaker: "Quilty Effect in 2019", September 25, 2019.

Thoracic Pathology New York City 2019, Memorial Sloan Kettering Cancer Center "Pathology of Lung Transplantation," September 28, 2019.

Cardiovascular Pathology evening specialty conference at USCAP Annual Meeting (virtual), Interesting cases from the teaching file, March 14, 2021.

Thoracic Pathology New York City 2021 (live virtual course), Memorial Sloan Kettering Cancer Center "Pathology of Lung Transplantation," October 16, 2021.

Grand Rounds, Mount Sinai Miami Cardiology, "Cardiovascular Pathology – Histologic Correlations" (live virtual presentation) January 19, 2023.

Teaching and Clinical Service awards:

Award of Merit for contributions to the Society for Cardiovascular Pathology, 1996.

Department of Medicine, Attending Teaching Award, Columbia University Medical Center, 2005-6.

Appointed to the Virginia Apgar Academy of Medical Educators, Columbia University College of Physicians and Surgeons, 2016.

Inaugural member, Academy of Clinical Mentoring and Excellence, Columbia University College of Physicians & Surgeons, 2016.

Publications:

(A) Peer Reviewed

- 1 Tafari N, Ross S, Naeye R, Judge D, Marboe CC. Mycoplasma T-strains and perinatal death. *Lancet* 1: 108-109, 1976.
- 2 Naeye R, Tafari N, Judge D, Gilmour D, Marboe CC. Amniotic fluid infections in an African city. *J Pediatr* 90: 965-970, 1977.
- 3 Naeye R, Tafari N, Marboe CC, Judge D. Causes of perinatal mortality in an African City. *Bull WHO* 55: 63-65, 1977.
- 4 Naeye R, Tafari N, Judge D, Marboe CC. Twins: Causes of perinatal death in 12 United States and one African city. *Am J Obstet Gynec* 131: 267-272, 1979.
- 5 Naeye R, Tafari N, Marboe CC. Perinatal death due to abruptio placentae in an African city. *Acta Obstet Gynec Scand* 58: 37-42, 1979.
- 6 Vinocur C, Hitzig G, Marboe CC, Hensle T. Renal pelvic tumors in childhood. *Urology* 16: 393-396, 1980.
- 7 Cooperman AM, Herter FP, Marboe CC, Helmreich ZV, Perzin K. Pancreatoduodenal resection and total pancreatectomy - An institutional review. *Surgery* 90: 707-712, 1981.
- 8 Thorsen K, Troy J, Marboe CC, Feldman F. Invasive squamous cell carcinoma of skin with extensive neoplastic bony infiltration in association with Hansen's disease. *Skeletal Radiol* 7: 78-81, 1981.

- 9 Green PR, Gold RP, Marboe CC, Weinberg LM, Goldfarb JP, Brasitus TA. Chronic erosive gastritis: Clinical, diagnostic and pathological features in nine patients. *Am J Gastroenterol* 77: 543-547, 1982.
- 10 Lefkowitz JL, Muschel R, Price JB, Marboe CC, Braunhut S. Copper and copper binding protein in fibrolamellar liver cell carcinoma. *Cancer* 51: 97-100, 1983.
- 11 Jakobiec FA, Marboe CC, Knowles DM, Iwamoto T, Harrison W, Chang S, Coleman DJ. Human sympathetic ophthalmia: An analysis of the inflammatory infiltrate by hybridoma monoclonal antibodies, immunochemistry and correlative electron microscopy. *Ophthalmology* 90: 76-95, 1983.
- 12 Marboe CC, Knowles DM, Chess L, Reemtsma K, Fenoglio JJ Jr. The immunologic and ultrastructural characterization of the cellular infiltrate in acute cardiac allograft rejection: Prevalence of cells with the natural killer phenotype. *Clin Immunol Immunopathol* 27: 141-151, 1983.
- 13 Knowles DM, Tolidjian B, Marboe CC, Halper JP, Azzo W, Wang CY. A new human B lymphocyte surface antigen (BL2) detectable by a hybridoma monoclonal antibody: Distribution on benign and malignant lymphoid cells. *Blood* 62: 191-199, 1983.
- 14 Knowles DM, Tolidjian B, Marboe CC, Halper JP, Azzo W, Wang CY. Distribution of antigens defined by OKB monoclonal anti-B cell antigens on benign and malignant lymphoid cells and non-lymphoid tissues. *Blood* 63: 886-896, 1984.
- 15 Marboe CC, Schierman SW, Rose EA, Reemtsma K, Fenoglio JJ Jr. In situ lymphocyte typing in cardiac allograft rejection. *Transpl Proc* 16: 1598-1599, 1984.
- 16 Posnett DN, Marboe CC. Differentiation antigens associated with hairy cell leukemia. *Semin Oncol* 11: 413-415, 1984.
- 17 Posnett DN, Marboe CC, Knowles DM, Jaffe EA, Kunkel HG. A membrane antigen (HC1) selectively present on hairy cell leukemia cells, endothelial cells and epidermal basal cells. *J Immunol* 132: 2700-2702, 1984.
- 18 Knowles DM, Tolidjian B, Marboe CC, D'Agati V, Grimes M, Chess L. Monoclonal anti-human monocyte antibodies OKM1 and OKM5 possess distinctive tissue distributions including differential reactivity with vascular endothelium. *J Immunol* 132: 2170-2173, 1984.
- 19 Shepard R, Hensle TW, Marboe CC. Testicular biopsy and occult tumor in acute lymphocytic leukemia. *Urology* 22:36-38, 1984.
- 20 Braunhut SJ, Blanc WA, Ramanarayanan M, Marboe CC, Mesa-Tejada R. Immunocytochemical localization of lysozyme and alpha-1-antichymotrypsin in the term human placenta: An attempt to characterize the Hofbauer cell. *J Histochem Cytochem* 32: 1204-1219, 1984.
- 21 Michler RE, McManus RP, Sadeghi A, Smith CR, Marboe CC, Tomas W, Hardy MA, Reemtsma K, Rose EA. Prolonged primate cardiac xenograft survival with cyclosporin. *Surg Forum* 36: 354-360, 1985.
- 22 Fawwaz RA, Iga C, Marboe CC, Nowygrod R, Reemtsma K, Hardy MA. Diagnosis of cardiac allograft rejection with Indium-111 labeled platelets in cyclosporin-treated rats. *Transpl Proc* 17: 237-239, 1985.
- 23 Dresdale AR, Sachs H, Thomas W, Kurlansky P, Marboe CC, Reemtsma K, Rose EA. Heart allograft survival in outbred dogs treated with procarbazine hydrochloride and antithymocyte globulin. *Transpl Proc* 39: 83-85, 1985.

- 24 Kurlansky P, Dresdale A, McManus R, Michler R, Sachs H, Thomas W, Lau H, Hardy M, Marboe CC, Reemtsma K, Rose EA. Prolongation of canine cardiac allografts using donor-specific buffy coat transfusions. *Transpl Proc* 42: 98-101, 1986.
- 25 Judge DM, Tafari N, Naeye RL, Marboe CC. Congenital syphilis and perinatal mortality. *Pediatr Pathol* 5: 411-420, 1986.
- 26 Sadeghi AM, Spotnitz H, Thomas WA, Marboe CC, Smith CR, Rose EA, Reemtsma K. Cyclosporine increases rat heart weight in heterotopic transplants. *Curr Surg* 44: 51-54.
- 27 Lungo O, Reed E, Smith CR, Rose EA, Marboe CC, Hardy M, Reemtsma K, Fenoglio JJ, Suci-Foca N. Immunological monitoring of cardiac allograft recipients. *Transpl Proc* 19: 2458-2550, 1987.
- 28 Addonizio L, Michler RE, Marboe CC, Esser PE, Johnson LL, Seldin DW, Gersony WM, Alderson PO, Rose EA, Cannon PJ. Imaging of cardiac allograft rejection in dogs using Indium-111 monoclonal antimyosin Fab. *J Am Coll Cardiol* 9:555-564, 1987.
- 29 Kurlansky PA, Sadeghi AM, Michler RE, Smith CR, Marboe CC, Thomas WA, Coppey L, Rose EA. Comparable survival of intra-species and cross-species primate cardiac transplants. *Transpl Proc* 19: 1067-1071, 1987.
- 30 Kutlu HM, Sadeghi AM, Norton JE, Marboe CC, Smith CR, Reemtsma K, Rose EA. The effect of simultaneous lung transplantation on heart transplant survival in rats. *J Heart Transplant* 6: 29-33, 1987.
- 31 Marboe CC, Schwartz RA, Adelson DAM, Escala EL, Weiss MB, Fenoglio JJ Jr. Active myocarditis with fibrosis: Poor correlation of ejection fraction with histology of follow-up biopsy. *Eur Heart J* 8 (Suppl J): 43-45, 1987.
- 32 Socha WW, Marboe CC, Michler RE, Rose EA, Moor-Jankowski J. Primate animal model for the study of ABO incompatibility in organ transplantation. *Transpl Proc* 19: 4448-4455, 1987.
- 33 Michler RE, McManus RP, Smith CR, Sadeghi AN, Marboe CC, Reemtsma K, Rose EA. Prolongation of primate cardiac xenograft survival with cyclosporine. *Transplant* 44: 632-636, 1987.
- 34 Clark MD, Spotnitz M, Marboe CC, Rose EA, Vayda J, Reemtsma K. Limitations and clinical relevance of serial left ventricular mass determination by two-dimensional echocardiography: Studies after orthotopic human cardiac transplantation. *J Cardiovasc Ultrasonography* 7: 55-66, 1988.
- 35 Pepino P, Fuzesi L, Berger C, Pierson RN, Gutierrez C, Marboe CC, Coppey L, Smith CR, Reemtsma K, Rose EA. Primate cardiac allo- and xenotransplantation: Modulation of the immune response with photochemotherapy. *Eur Surg Res* 20: 76-77, 1988.
- 36 Keller AM, Clancy RM, Barr ML, Marboe CC, Cannon PJ. Acute reoxygenation injury in isolated rat heart: Role of resident cardiac mast cells. *Circ Res* 6: 1044-1052, 1988.
- 37 Cappell MS, Green PHR, Marboe CC. Neoplasia in chronic erosive (variolaform) gastritis. *Dig Dis Sci* 33: 1035-1039, 1988.
- 38 Fenoglio JJ Jr, Ho E, Reed E, Rose E, Smith C, Reemtsma K, Marboe C, Suci-Foca N. Anti-HLA antibodies and heart allograft survival. *Transpl Proc* 21: 807-809, 1989.
- 39 Fuzesi L, Pepino P, Berger CL, Panza A, Chian Y-C, Marboe CC, Pierson R, Smith CR, Reemtsma K, Rose E. Immunomanipulation of the response to cardiac allo- and xenoreactive lymphocytes. *Transpl Proc* 21: 537-539, 1989.

- 40 Antunes ML, Spotnitz HM, Clark M, Steinhardt BS, Marboe CC, Smith CR, Rose EA, Reemtsma K. Long-term function of human cardiac allografts assessed by two-dimensional echocardiography. *J Thoracic Surg* 90: 275-284, 1989.
- 41 Petrossian GA, Nichols AB, Marboe CC, Sciacca R, Rose EA, Smith CR, Cannon PJ, Reemtsma K, Powers ER. Relation between survival and development of coronary artery disease and anti-HLA antibodies after cardiac transplantation. *Circ (Suppl III)*: III-122-125, 1989.
- 42 Chabot JA, Pepino P, Wasfie T, Stegall MD, Marboe CC, Hardy MA. UVB pre treatment of rat bone marrow allografts: Prevention of GVHD and the induction of allochimerism and donor-specific unresponsiveness. *Transplant* 49: 886-889, 1990.
- 43 Billingham ME, Cary MRB, Hammond ME, Kemnitz, Marboe CC, Mc Callister HA, Snover DC, Winters GL, Zerbe A. A working formulation for the standardization of nomenclature in the diagnosis of heart and lung rejection: Heart rejection study group. *J Heart Transplant* 9: 587-593, 1990.
- 44 Oz MC, Johnson JP, Parangi S, Chuck RS, Marboe CC, Bass LS, Nowygrad R, Treat MR. Tissue soldering using indocyanin green dye-enhanced fibrinogen with the near-infrared diode laser. *J Vasc Surg* 11: 718-725, 1990.
- 45 Oz MC, Lemole GM, Treat MR, Trokel SL, Andrew JE, Barr ML, Marboe CC, Nowygrad R. Effects of a 2.15-micron laser on human atherosclerotic xenografts in vivo. *J Vasc Dis* 41: 772-776, 1990.
- 46 Sanchez JA, Marboe C, Auteri JS, Jeevanandam V, Edwards NM, Berger CL, Rose EA. Binding of preformed xenoantibodies to porcine bioprosthetic valves. *Ann Thorac Surg* 51: 30-33, 1991.
- 47 Jeevanandam V, Auteri JS, Marboe CC, Hsu D, Sanchez JA, Smith CR, Rose EA. Extending the limits of donor heart preservation: A trial with University of Wisconsin solution. *Transpl Proc* 23: 697-698, 1991.
- 48 Suci-Foca, N, Reed E, Marboe CC, Xi YP, Yu-Kan S, Ho E, Rose E, Reemtsma K, King DW. The role of anti-HLA antibodies in heart transplantation. *Transplant* 51: 716-724, 1991.
- 49 Rosenchein U, Rozensajn LA, Fraus L, Marboe CC, Watkins JF, Rose EA, David D, Cannon PJ, Weinstein JS. Ultrasonic angioplasty in totally occluded peripheral arteries. Initial clinical, histological, and angiographic results. *Circ* 83: 1976-1986, 1991.
- 50 Binah O, Zhong H-L, Oluwole SF, Hardy MA, Marboe CC, Danilo P Jr. Mechanical and electrophysiological changes in rat cardiac allografts during immunological rejection. *Transplant* 52: 508-512, 1991.
- 51 Jeevanandam V, Auteri JS, Sanchez JA, Barr ML, Ott GY, Hsu D, Marboe C, Smith CR, Rose EA. Improved heart preservation with University of Wisconsin solution: Experimental and preliminary human experience. *Circ(Suppl III)*: III-324-328, 1991.
- 52 Jeevanandam V, Barr ML, Auteri JS, Sanchez JA, Ott GY, Schenkel FA, Marboe CC, Smith CR, Rose EA. University of Wisconsin solution for human donor heart preservation: Initial clinical experience. *Ann Thoracic Surg* 52: 1213-1216, 1991.
- 53 Cherry R, Nielsen H, Reed E, Reemtsma K, Suci-Foca N, Marboe CC. Vascular (humoral) rejection in cardiac allograft biopsies: Relation to circulating anti-HLA antibodies. *J Heart Lung Transplant* 11: 24-30, 1992.
- 54 Jeevanandam V, Barr MA, Sanchez JA, Auteri JS, Marboe CC, Schenkel FA, Smith CR, Rose EA. University of Wisconsin solution versus crystalloid

- cardioplegia for donor heart preservation: A randomized blinded prospective human trial. *J Thoracic Cardiovasc Surg* 103: 194-199, 1992.
- 55 Auteri JS, Jeevanandam V, Sanchez JA, Marboe CC, Kirby TJ, Smith Cr. Normal bronchial healing without bronchial wrapping in canine lung transplantation. *Ann Thoracic Surg* 53: 80-84, 1992.
- 56 Rose EA, Barr ML, Xu H, Pepino P, Murphy MP, McGovern MA, Ratner AJ, Watkins JF, Marboe CC, Berger CL. Photochemotherapy in human heart transplant recipients at high risk for fatal rejection. *J Heart Lung Transplant* 11: 740-750, 1992.
- 57 Reed E, Cohen D, Barr M, Ho E, Marboe CC, Rose EA, Hardy M, Suciu-Foca N. Effect of anti-HLA and anti-idiotypic antibodies on the long term survival of heart and kidney allografts. *Transplant Proc* 24: 2495-2495, 1992.
- 58 Berkman YM, Drossman SR, Marboe CC. Intersegmental (intersublobular) septum of the lower lobe in relation to the pulmonary ligament: Anatomic, histologic and CT correlations. *Radiology* 185: 389-393, 1992.
- 59 Jeevanandam V, Auteri JS, Sanchez JA, Hsu D, Marboe C, Smith CR, Rose EA. Cardiac transplantation after prolonged graft preservation with the University of Wisconsin solution. *J Thoracic Cardiovasc Surg* 104: 224-228, 1992.
- 60 Vaccarino RA, Sanchez JE, Johnson LL, Wang TS, Seldin DW, Marboe C, Egbe P, Bhatia K, Rose EA, Khaw BA. Imaging of cardiac transplant rejection in primates using two new antimyosin agents. *J Nuclear Med* 33: 1994-1999, 1992.
- 61 Reed E, Cohen DJ, Barr ML, Ho E, Marboe CC, Rose EA, Hardy M, Suciu-Foca N. Effect of anti-HLA and anti-idiotypic antibodies on the long-term survival of heart and kidney allografts. *Transplant Proc* 24: 2494-2495, 1992.
- 62 Yano O, Bielefeld MR, Jeevanandam V, Treat MR, Marboe CC, Spotnitz HM, Smith CR., Prevention of acute regional ischemia with endocardial laser channels. *Ann Thoracic Surg* 56: 46-53, 1993.
- 63 Temponi M, Kekich U, Hamby CV, Nielsen H, Marboe CC, Ferrone S. Characterization of anti-HLA Class II monoclonal antibody LGII-612.14 reacting with formalin fixed tissues. *J Immunol Methods* 161: 239-256, 1993.
- 64 Barr ML, Cohen DJ, Benvenisty AI, Hardy M, Reemtsma K, Rose EA, Marboe CC, D'Agati V, Suciu-Foca N, Reed E. Effect of anti-HLA antibodies on the long-term survival of heart and kidney allografts. *Transplant Proc* 25: 262-264, 1993.
- 65 Reed E, Ho E, Cohen DJ, Ramey W, Marboe C, D'Agati V, Rose EA, Hardy M, Suciu-Foca N. Anti-idiotypic antibodies specific for HLA in heart and kidney allograft recipients. *Immunol Res* 12: 1-11, 1993.
- 66 Oz MC, Pinsky DJ, Koga S, Liao H, Marboe CC, Han D, Kline R, Jeevanandam V, Williams M, Morales A, Stern DA. Novel preservation solution permits 24-hour preservation in rat and baboon cardiac transplant models. *Circ* 88: II-291-297, 1993.
- 67 Sherman D, Smith C, Marboe C, Mosca R, Weinberger J, DiTullio M, Homma S. Right atrial angiosarcoma causing a coronary artery fistula: Diagnosis by transesophageal ultrasound. *Am Heart J* 126: 254-6, 1993.
- 68 Wiedermann JG, Marboe C, Amols H, Schwartz A, Weinberger J. Intracoronary irradiation markedly reduces restenosis after balloon angioplasty in a porcine model. *J Am Coll Cardiol* 23: 1491-1498, 1994.
- 69 Wiedermann JG, Leavy JA, Amols H, Schwartz A, Homma S, Marboe C, Weinberger J. Effects of high dose intracoronary irradiation on vasomotor

- function and smooth muscle histopathology. *Am J Physiol* 267: H125-H132, 1994.
- 70 Yang X, Chowdhury N, Cai B, Brett J, Marboe C, Sciacca RR, Michler RE, Cannon PJ. Induction of myocardial nitric oxide synthase by cardiac allograft rejection. *J Clin Invest* 94: 714-721, 1994.
- 71 Symmans WF, Nielsen H, Dell R, Rose EA, Marboe CC. Cardiac allograft pathology: A clinicopathologic correlation. *Cardiovasc Pathol* 3: 249-256, 1994.
- 72 Ravalli S, Marboe CC, D'Agati VD, Michler RE, Sigal E, Cannon P. Immunohistochemical demonstration of 15-lipoxygenase in transplant coronary artery disease. *Arterioscl Thromb Vasc Biol* 15: 340-348, 1995.
- 73 Wiedermann JG, Marboe C, Amols H, Schwartz A, Weinberger J. Intracoronary irradiation markedly reduces neointimal proliferation after balloon angioplasty in swine: Persistent benefit at 6-month follow-up. *J Am Coll Cardiol* 25: 1451-1456, 1995.
- 74 Barr ML, McLaughlin SN, Murphy MP, Stouch BC, Wiedermann JG, Marboe CC, Schenkel FA, Berger CL, Rose EA. Prophylactic photopheresis and effect on graft atherosclerosis in cardiac transplantation. *Transplant Proc* 27: 1993-1994, 1995.
- 75 Ravalli S, Marboe CC, D'Agati V, Sigal E, Michler RE, Cannon P. Expression of 15-lipoxygenase in transplant coronary artery disease. *Adv. Prostaglandin Thromb Leuk Res* 29: 381-3, 1995.
- 76 Barr ML, Schenkel FA, Cohen RG, Chan KM, Barbers RG, Marboe CC, Starnes VA. Living-related lobar transplantation: Recipient outcome and early rejection patterns. *Transplant Proc* 27: 1995-1996, 1995.
- 77 Ravalli S, LiMandri G, Ditullio MR, Marboe CC, Boxt L, Sacco RL, Schwartz A, Homma S. Intravascular ultrasound imaging of human cerebral arteries. *J Neuroimag* 6: 71-75, 1996.
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