

Dear Colleague,

Our mailing is a little late this month because we had so many excellent presentations and papers to include.

In this issue you'll find over 40 contributions to *International Society for Heart and Lung Transplantation* meeting in Orlando, FL.

I'd also like to congratulate Dr. Lisa Weichmann for her cover article in the journal [Cancer Cell](#).

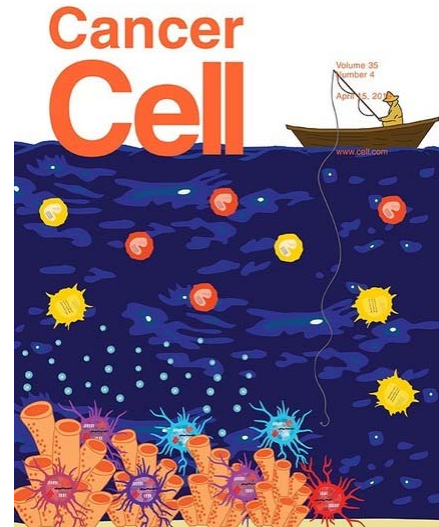
And please don't forget to mark your calendars for our [Third Annual Research Symposium](#) on June 19, 2019, below.

A general reminder: Journal links may require subscriptions or a log-in through the Columbia library while PubMed links are accessible to all.

This report is a valuable resource for the department, so please continue to email Paul Kurlansky (pk2245@columbia.edu) or me (crs2@cumc.columbia.edu) with regular updates on your grants, publications, and presentations by the first of every month.

For easy reference, we now post all issues of this [newsletter](#) on the Center for Innovations and Outcomes Research website.

Craig R. Smith, MD, FACS
Chairman, Department of Surgery





COLUMBIA UNIVERSITY DEPARTMENT OF SURGERY
3RD ANNUAL RESEARCH SYMPOSIUM

INNOVATION • EXCELLENCE • VALUE

THURSDAY, JUNE 13, 2019

BASIC SCIENCE

Publications

Israelyan N, Del Colle A, Li Z, Park Y, Xing A, Jacobsen JPR, Luna RA, Jensen DD, Madra M, Saurman V, Rahim R, Latorre R, Law K, Carson W, Bunnett NW, Caron MG, Margolis KG. Effects of Serotonin and Slow-release 5-HTP on Gastrointestinal Motility in a Mouse Model of Depression. *Gastroenterology*. 2019 Apr 25. pii: S0016-5085(19)36715-0. doi: 10.1053/j.gastro.2019.04.022.

[Journal link](#)

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Roitman M, Edgington-Mitchell LE, Mangum J, Ziogas J, Adamides AA, Myles P, Choo-Bunnett H, Bunnett NW, Gunnarsen JM. Sez6 levels are elevated in cerebrospinal fluid of patients with inflammatory pain-associated conditions. *Pain Rep*. 2019 Mar 25;4(2):e719. doi: 10.1097/PR9.0000000000000719. *eCollection* 2019 Mar-Apr.

[Journal link](#)

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BREAST SURGERY

Publications

Human Tumor-Associated Macrophage and Monocyte Transcriptional Landscapes Reveal Cancer-Specific Reprogramming, Biomarkers, and Therapeutic Targets.

Cassetta L, Fragkogianni S, Sims AH, Swierczak A, Forrester LM, Zhang H, Soong DYH, Cotechini T, Anur P, Lin EY, Fidanza A, Lopez-Yrigoyen M, Millar MR, Urman A, Ai Z, Spellman PT, Hwang ES, Dixon JM, Wiechmann L, Coussens LM, Smith HO, Pollard JW. *Cancer Cell*. 2019 Apr 15;35(4):588-602.e10. doi: 10.1016/j.ccell.2019.02.009.

[Journal link](#)

[PubMed link](#)

CARDIAC SURGERY

Presentations

International Society for Heart and Lung Transplantation

39th Annual Meeting and Scientific Sessions

Orlando, FL, April 3-6, 2019

Akiyama K, Colombo PC, Stohr EJ, Ji R, Jimenez OG, Wu I, Shames S, Itatani K, Miyazaki S, Furusawa T, Nishino T, McDonnell BJ, Garan AR, Naka Y, Takeda K, Takayama H, Yuzefpolskaya M. Blood Flow Kinetic Energy of Right Ventricular Outflow Tract: A Marker for Right Ventricular Global Systolic Function.

Akiyama K, Ji R, Castagna F, Pinsino A, Cockcroft JR, Yuzefpolskaya, Garan AR, Topkara VK, Ross K, Takayama H, Takeda K, Naka Y, McDonnell BJ, Colombo PC, Wiley JZ, EJ Stohr. Wall Shear Stress in the Middle Cerebral Artery of HM II Patients – A Prospective, Mechanistic Study Using Vector Flow Mapping.

Akiyama K, Ji R, Stohr EJ, Jimenez OG, Wu I, Itatani K, Miyazaki S, Furusawa T, Nishino T, McDonnell BJ, Garan AR, Yuzefpolskaya, Colombo PC, Naka Y, Takeda K, Takayama H. Assessment of Wall Shear Stress on the Aortic Valve in Patients with Left Ventricular Assist Device Using Vector Flow Mapping.

Akiyam K, Stohr EJ, Ji R, Jimenez OG, Wu I, Itatani K, Miyazaki S, Furusawa T, Nishino T, McDonnell BJ, Garan AR, Yuzefpolskaya M, Colombo PC, Naka Y, Takayama H, Takeda K. Novel Approach to Assess Intraventricular Pressure Difference in Patients with Left Ventricular Assist Device during Ramp Study.

Axelrad J, Faye AS, Pinsino A, Cagliostro B, Thanataveerat A, Effner L, Pineda FM, Garan AR, Takayama H, Takeda K, Naka Y, Colombo PC, Gonda T, Yuzefpolskaya.

Prospective Validation of the First Endoscopic Management Algorithm for Gastrointestinal Bleeding in Patients with Left Ventricular Assist Devices.

Batra J, Jennings DL, Garan AR, Truby LK, Takeda K, Takayama H, Restaino S, Latif F, Haythe J, Yuzefpolskaya M, Colombo PC, Naka Y, Farr MA, Topkara VK. Early Infection Risk Associated with Induction Immunosuppression after Cardiac Transplant in Patients with Left Ventricular Assist Devices.

Batra J, Jennings D, Garan AR, Truby LK, Latif F, Restaino S, Hayth J, Yuzefpolskaya M, Takeda K, Takayama H, Naka Y, Colombo P, Farr M, Topkara VK. Outcomes after Early Initiation of mTOR-Inhibitors in Adult Cardiac Transplant Recipients.

Cagliostro B, Zuver AM, Effner L, Parkis G, Mondelini GM, Royzman EA, Bravo CA, Te-Frey R, Lin EF, Garan AR, Takayama H, Takeda K, Naka Y, Colombo PC, Yuzefpolskaya. Pre-LVAD Blood-Borne Infection is a Harbinger of Poor Prognosis after LVAD Implantation.

Cevasco M, Naka Y, Saha A, Garan AR, Witer L, Sanchez J, Kurlansky P, Melehy A, Fried J, Yusefpolskaya M, Colombo P, Takayama H, Takeda K. Concurrent Mitral Valve Repair during Placement of Continuous-Flow Left Ventricular Assist Device.

Cevaasco M, Saha A, Garan AR, Witer L, Sanchez J, Kurlansky P, Yusefpolskaya M, Takayama H, Naka Y, Takeda K. Incidence and Outcomes of Prosthetic Valve Thrombosis during Extracorporeal Membrane Oxygenation Support for Postcardiotomy Shock.

Colombo PC, Castagna F, Onat D, Lagana SM, Ka, Royzman EA, Faye AS, Axelrad JE, Gonda TA, Garan AR, Takayama H, Takeda K, Naka Y, Parkis, Yuzefpolskaya M, Demmer R. Experimental Venous Congestion Causes Peripheral Release of Angiopoietin-2 and Tissue Necrosis Factor- α - A New Insight into the Pathophysiology of Gastrointestinal Bleeding in CF-LVAD Patients.

Coromilas EF, Takeda K, Ando M, Cevasco M, Green P, Karmपालiotis D, Topkara V, Yuzefpolskaya M, Takayama H, Naka Y, Burkhoff D, Colombo PC, Garan AR. Limitations of Preoperative Right Ventricular Failure Assessment in Patients Undergoing LVAD Insertion.

Defilippis EM, Garan AR, Givens RC, Truby LK, Latif F, Restaino SW, Takeda K, Takayama H, Naka Y, Colombo PC, Farr MA, Topkara VK. Regional Variation in Utilization of Hepatitis C-Positive Organs for Heart Transplantation in the United States.

DeFilippis EM, Garan AR, Givens RC, Truby LK, Latif F, WS Restaino SW, Takeda K, Takayama H, Naka Y, Colombo PC, Farr, Topkara VK. Implantable Cardioverter-

Defibrillators in Heart Transplant Recipients with Allograft Failure.

DeFilippis EM, Givens RC, Garan AR, Latif F, Restaino SW, Naka Y, Takeda K, Takayama H, Colombo PC, Farr MA, Topkara VK. Characteristics and Short-Term Outcomes of Hepatitis C Antibody Positive Organs for Heart Transplantation: UNOS Analysis.

Fried JA, Cevasco M, Witer L, Masoumi A, Brodie D, Griffith J, Topkara V, Clerkin K, Zuver A, Karpaliotis D, Kirtane A, Takayama H, Yuzefpolskaya M, Naka Y, Colombo P, Takeda K, Garan AR. Predictors of Survival to Discharge and Ventricular Recovery after VA-ECMO Support for Acute Myocardial Infarction Complicated by Cardiogenic Shock.

Fried JA, Lumish H, Zuver AM, Garan AR, Topkara VK, Cagliostro B, Parkis G, Cevasco M, Pineda MT, Mondellini GM, Ross K, Witer L, Takayama H, Takeda K, Naka Y, Yuzefpolskaya M, Demmer RT, Colombo PC. Presence of Left Atrial or Left Ventricular Thrombus at the Time of CF-LVAD Implantation is Associated with Increased Post-Operative Risk of Stroke or Death.

Gaudig A, Mondellini GM, Toma K, Pinsino A, TeFrey R, Parkis G, Dominguez M, Masoumi A, Garan AR, Takayama H, Takeda K, Naka Y, Demmer RT, Colombo PC, Radhadrishnan J, Yuzefpolskaya M. Long- and Short-Term Changes in Serum Creatinine Prior to LVAD Surgery are Associated with Postoperative Outcomes.

Griffin JM, Lewis MJ, Yuzefpolskaya M, Cevasco M, TeFrey R, Tiburcio M, Ginns J, Elder RW, Rosenbaum M, Farr MA, Colombo PC, Takayama H, Takeda K, Axsom KM, Naka Y. HeartWare LVAD in Adult Patients with Complex Single Ventricle Physiology and Failed Systemic Ventricle.

Jennings DL, Ferreira BBD, Zuver A, Drew O, Gaine M, Royzman E, Hupf J, Farr M, Latif F, Restaino S, Garan AR, Takayama H, Takeda K, Naka Y, Colombo PC, Demmer R, Yuzefpolskaya M. Gut Microbial Diversity, Inflammation and Oxidative Stress is Associated with Tacrolimus Dosing Requirements Early after Heart Transplant.

Ji R, Akiyama K, Castagna F, Pinsino A, Cockcroft JR, Yuzefpolskaya M, Garan AR, Topkara VK, Pineda MT, Takayama H, Takeda K, Naka Y, Colombo PC, McDonnell B, Stohr EJ, Wiley JZ. Metabolic Vasoreactivity in the Middle Cerebral Artery of Heart Failure Patients with and without Continuous-Flow Left Ventricular Support.

Krause M, Hastie J, Panzer O, Colombo PC, Yuzefpolskaya M, Naka, Takayama H, Sladen RN. Preemptive Hemodynamic Transesophageal Echocardiography after Continuous Flow Ventricular Assist Device Implantation.

Lumish H, Hupf JC, Latif F, Haythe JH, Farr MA, Zuver AM, Antler KL, Garan AR,

Takayama H, Takeda K, Naka Y, Colombo PC, Yuzefpolskaya M. Gender Bias in LVAD Referral Patterns – A Survey of Patients and Providers.

Malick W, Fried JA, Takeda K, Zuver A, Cevasco M, Witer L, Masoumi A, Topkara VK, Yuzefpolskaya M, Takayama H, Naka Y, Colombo PC, Karpaliotis D, Kirtane A, Garan AR. Hemodynamic Support with Intra Aortic Balloon Pump Differs by Etiology of Cardiogenic Shock.

Melehy A, Seres D, Mullen H, Sanchez J, Kurlansky P, Garan AR, Topkara V, Yuzefpolskaya M, Colombo PC, Takayama H, Naka Y, Takeda K. Comprehensive Nutrition Assessment before Left Ventricular Assist Device Implantation in Chronically Ill Hospitalized Patients.

Nishikawa M, Wiley J, Garan AR, Cevasco M, Witer L, Sanchez J, Kurlansky P, Kirtane A, Brodie D, Yuzefpolskaya M, Colombo P, Takayama H, Naka Y, Takeda K. Incidence and Outcome of Neurological Complications in Venous-Arterial Extracorporeal Membrane Oxygenation Support for Cardiogenic Shock.

Nakagawa S, Ando M, Takeda K, Rosen A, Takayama H, Garan AR, Topkara VK, Yuzefpolskaya M, Colombo PC, Naka Y, Blinderman CD. Difficulty in Dying on LVAD: A Preliminary Analysis of Factors Associated with Time to LVAD Withdrawal.

Nishikawa M, Wiley J, Garan AR, Cevasco M, Witer L, Sanchez J, Kurlansky P, Kirtane A, Brodie D, Yuzefpolskaya M, Colombo P, Takayama H, Naka Y, Takeda K. Occurrence and Clinical Patterns of Stroke Based on Arterial Cannulation Strategy during Venous-Arterial Extracorporeal Membrane Oxygenation Support.

Pinsino A, Gaudig A, Hoffman KL, D'Angelo D, Royzman EA, Mondellini GM, Castagna F, Zuver AM, Garan AR, Takayama H, Takeda K, Naka Y, Demmer RT, Yuzefpolskaya M, Colombo PC. Digoxin is Associated with Decreased Survival Free from Hemocompatibility-Related Adverse Events in LVAD Patients – A Propensity Score Matched Analysis.

Pinsino A, Gaudig A, Royzman EA, Dominguez MB, Radhakrishnam J, Toma K, Zuver AM, Tiburcio M, Topkara V, Masoumi A, Garan AR, Takayama H, Takeda K, Naka Y, Faillace RT, Demmer RT, Colombo PC, Yuzefpolskaya M. Cystatin C is Superior to Creatinine for Prediction of Adverse Events in Heart Failure Patients Undergoing LVAD Implant.

Royzman EA, Mondellini GM, Zuver AM, Bravo CA, Brunjes DL, Onat D, Mabasa M, Hupf JC, Garan AR, Takayama H, Takeda K, Naka Y, Demmer RT, Colombo PC, Yuzefpolskaya M. Associations among Biomarkers of Congestion, Inflammation and

Oxidative Stress in Heart Failure, LVAD and Heart Transplant.

Ruan D, Farr M, Topkara V, Garan AR, Sanchez J, Kurlansky P, Yuzefpolskaya M, Colombo P, Takayama H, Naka Y, Takeda K. Routine Right Heart Catheterization in LVAD Patients Awaiting Heart Transplant: What is the Appropriate Surveillance Interval?

Saha A, Jennings DL, Sanchez J, Melehy A, Yuzefpolskaya M, Colombo PC, Farr MA, Takayama, Naka Y, Takeda K. Effect of Methylene Blue Administration on Vasoplegia Following Left Ventricular Assist Device Implantation.

Salna M, Garan AR, Kirtane A, Karpaliotis P, Green P, Vahl T, Takayama H, Sanchez J, Kurlansky P, Yuzefpolskaya M, Colombo PC, Naka Y, Takeda K. Novel Percutaneous Dual Lumen Cannula Right Ventricular Assist Device Provides Effective Support for Patients after Left Ventricular Assist Device Implantation.

Salna M, Garan AR, Takayama H, Cevasco M, Liter LJ, Sanchez J, Kurlansky P, Brodie D, Colombo PC, Naka Y, Takeda K. 10-Year Outcomes of Extracorporeal Cardiopulmonary Resuscitation for In-Hospital Cardiac Arrest at a Tertiary Center.

Sanchez JE, Farr M, Restaino S, Jennings D, Topkara V, Garan AR, Kurlansky P, Colombo P, Takayama H, Naka Y, Takeda K. Peri-Operative Serum Amiodarone Levels are Not Predictive of Graft Dysfunction in Orthotopic Heart Transplantation.

See SB, Pinsino A, Kunimune N, Onat D, Hittesdorf E, Garan AR, Topkara VK, Naka Y, Takayama H, Takeda K, Colombo PC, Wagener G, Yuzefpolskaya M, Zorn E. Natural Antibodies and Left Ventricular Assist Device Complications.

Stohr EJ, Ji R, Akiyama K, Castagna F, Pinsino A, Cockcroft JR, Yuzefpolskaya M, Garan AR, Topkara VK, Te-Frey RT, Takayama H, Takeda K, Naka Y, Colombo PC, Wiley JZ, McDonnell BJ. A Comparison of Middle Cerebral Artery and Central Retinal Artery Hemodynamics in HM II Patients.

Takeda K, Farr MA, Garan AR, Topkara V, Marisa C, Witer L, Restaino S, Yuzefpolskaya M, Colombo PC, Takayama H, Naka Y. 1-Year Graft Function and Hemodynamics in Heart Transplant Patients Who Experienced Severe Primary Graft Dysfunction.

Yuzefpolskaya M, Bohn B, Onat D, Zuver A, Brunjes DL, Royzman EA, Pinsino A, Antler KL, Hupf JC, Dominguez MB, Garan AR, Takayama H, Takeda K, Naka Y, Colombo PC, Demmer RT. Longitudinal Trends in Gut Microbial Community Diversity among HF Patients Undergoing LVAD.

Zuver AM, Hoffman KL, D'Angelo D, Onat D, Royzman EA, Hupf JC, Brunjes DL, Mondellini GM, Barvo CA, Tiburcio M, Garan AR, Takayama H, Takeda K, Naka Y,

Colombo PC, Demmer RT, Yuzefpolskaya. Microbiome-Derived TMAO Exhibits No Protective Effect against GIB in LVAD Patients.

Zuver AM, Royzman EA, Bohn BDF, Brunjes DL, Nasiri Ahmadabadi M, Latif F, Farr MA, Restaino SW, Garan AR, Takayama H, Takeda K, Colombo PC, Naka Y, Demmer RT, Yuzefpolskaya M. Exploring Sex Differences in Gut Microbial Diversity, Endotoxemia, Inflammation and Oxidative Stress in Heart Failure, Left Ventricular Assist Device, and Heart Transplant Patients.

Publications

Anderson BR, Kumar SR, Gottlieb-Sen D, Liava'a MH, Hill KD, Jacobs JP, Moga FX, Overman DM, Newburger JW, Glied SA, Bacha EA; The Congenital Heart Technical Skill Study: Rationale and Design. Congenital Heart Technical Skill Study. *World J Pediatr Congenit Heart Surg*. 2019 Mar;10(2):137-144. doi: 10.1177/2150135118822689.

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Bacha E. Noonan's Syndrome and Cardiac Surgery: What Can We Learn? *Semin Thorac Cardiovasc Surg*. 2019 Mar 1. pii: S1043-0679(19)30007-3. doi: 10.1053/j.semtcvs.2019.02.027.

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Bacha EA. Commentary: Single-ventricle reconstruction: Chronicle of a death foretold? *J Thorac Cardiovasc Surg*. 2019 Mar 21. pii: S0022-5223(19)30670-1. doi: 10.1016/j.jtcvs.2019.02.119.

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Bacha EA. Commentary: The Norwood operation from 1982 to 2019: Continued surgical triumph or stagnation? *J Thorac Cardiovasc Surg*. 2019 Jan 31. pii: S0022-5223(19)30288-0. doi: 10.1016/j.jtcvs.2019.01.074.

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Bapat V, Tang GHL. Fracturing surgical valves to improve hemodynamics in transcatheter aortic valve-in-valve replacement: Insanity or ingenuity? *J Thorac Cardiovasc Surg*. 2019 Feb 27. pii: S0022-5223(19)30486-6. doi: 10.1016/j.jtcvs.2019.01.132

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Bapat V, Tang GHL. Axillary/Subclavian Transcatheter Aortic Valve Replacement: The Default Alternative Access? *JACC Cardiovasc Interv*. 2019 Apr 8;12(7):670-672. doi: 10.1016/j.jcin.2019.02.017.

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D'Angelo AM, van Boxtel BS, Wu IY, Smith CR. Deep hypothermic circulatory arrest for resection of a right atrial accessory hepatic lobe. *J Thorac Cardiovasc Surg*. 2019 Apr 4. pii: S0022-5223(19)30754-8. doi: 10.1016/j.jtcvs.2019.03.076.

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Durko AP, Head SJ, Pibarot P, Atluri P, Bapat V, Cameron DE, Casselman FPA, Chen EP, Dahle G, Ebels T, Elefteriades JA, Lancellotti P, Prager RL, Rosenhek R, Speir A, Stijnen M, Tasca G, Yoganathan A, Walther T, De Paulis R. Characteristics of surgical prosthetic heart valves and problems around labelling: a document from the European Association for Cardio-Thoracic Surgery (EACTS)-The Society of Thoracic Surgeons (STS)-American Association for Thoracic Surgery (AATS) Valve Labelling Task Force. *Eur J Cardiothorac Surg*. 2019 May 10. pii: ezz034. doi: 10.1093/ejcts/ezz034.

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Kassar M, Khalique OK, Pilgrim T, Reineke D, Carrel T, Windecker S, George I, Praz F. Surgical Transatrial Implantation of Transcatheter Heart Valves in Severe Mitral Annular Calcification. *Interv Cardiol Clin*. 2019 Jul;8(3):313-319. doi: 10.1016/j.iccl.2019.02.006.

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management of complex valvulopathy. *Catheter Cardiovasc Interv*. 2019 Apr 8. doi: 10.1002/ccd.28179.

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Kurlansky P. Commentary: The superiority of noninferiority. *J Thorac Cardiovasc Surg*. 2019 Apr 4. pii: S0022-5223(19)30755-X. doi: 10.1016/j.jtcvs.2019.03.077

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Salna M, Ikegami H, Willey JZ, Garan AR, Cevasco M, Chan C, Takayama H, Colombo PC, Naka Y, Takeda K. Transcranial Doppler is an effective method in assessing cerebral blood flow patterns during peripheral venoarterial extracorporeal membrane oxygenation. *J Card Surg*. 2019 May 6. doi: 10.1111/jocs.14060.

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Schwann TA, Habib RH, Wallace A, Shahian D, Gaudino M, Kurlansky P, Engoren MC, Tranbaugh RF, Schwann AN, Jacobs JP. Bilateral internal thoracic artery versus radial artery multi-arterial bypass grafting: a report from the STS database†. *Eur J Cardiothorac Surg*. 2019 Apr 1. pii: ezz106. doi: 10.1093/ejcts/ezz106.

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Smith CR. Commentary: When a choice is not an echo. *J Thorac Cardiovasc Surg*. 2019 Apr 4. pii: S0022-5223(19)30745-7. doi: 10.1016/j.jtcvs.2019.03.067.

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GI/ENDOCRINE SURGERY

Presentations

*50th Meeting of the Korean Hepatobiliary and Pancreas Association
Seoul, Korea, April 2019*

Kluger MD. Irreversible electroporation: Don't turn your back on locally advanced pancreatic cancer.

IMMUNOLOGY/TRANSPLANTATION SURGERY

Presentations

American Association of Cancer Research Annual Meeting
Atlanta, GA, April 1, 2019

Farber D, Session Chair, Organ-specific immunity

Publications

Snyder ME, Finlayson MO, Connors TJ, Dogra P, Senda T, Bush E, Carpenter D, Marboe C, Benvenuto L, Shah L, Robbins H, Hook JL, Sykes M, D'Ovidio F, Bacchetta M, Sonett JR, Lederer DJ, Arcasoy S, Sims PA, Farber DL. Generation and persistence of human tissue-resident memory T cells in lung transplantation. *Sci Immunol*. 2019 Mar 8;4(33). pii: eaav5581. doi: 10.1126/sciimmunol.aav5581.

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THORACIC SURGERY

Publications

Aramini B, Geraghty P, Lederer DJ, Costa J, DiAngelo SL, Floros J, D'Ovidio F. Surfactant protein A and D polymorphisms and methylprednisolone pharmacogenetics in donor lungs. *J Thorac Cardiovasc Surg*. 2019 Jan 21. pii: S0022-5223(19)30052-2. doi: 10.1016/j.jtcvs.2018.12.098.

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Floros J, D'Ovidio F. Surfactant protein A and D personalized medicine: A healthy day at the SP-A. *J Thorac Cardiovasc Surg*. 2019 Apr 5. pii: S0022-5223(19)30544-6. doi: 10.1016/j.jtcvs.2019.02.078.

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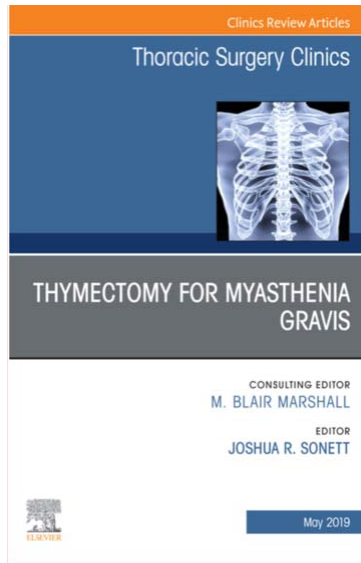
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