



Dear Colleagues,

We wish to extend congratulations to the recipients of this year's Surgery Startup grants, Forde award, Michael Treat award, and John Jones Surgical Society Award. We received a record number of grant applications this year. Thank you again to Dr. Spotnitz and the Research Committee for their tireless work on this project.

We also congratulate Dr. Juan Grau for organizing and moderating the first ever session on Translational Cardiovascular Research at the Annual Meeting of European Association of Cardiothoracic Surgery, this October in Milan Italy.

Investigator	Attending	Title	Startup	Forde	Treat	JJSS
Joshua Weiner, MD	Tomoaki Kato, MD	Combined Bone Marrow and Liver Transplantation in Cynomolgus Monkeys: Induction of Allograft Tolerance through Mixed Chimerism	\$6,360			
Debarshi Banerjee, PhD	Angela Kadenhe-Chiweshe, MD	The role of Notch signaling in experimental hepatoblastoma	\$6,225			
Kazuki Sugahara, MD	Michael Kluger, MD	The roles of tumor-penetrating iRGD peptide in Hyperthermic Intraperitoneal Chemotherapy (HIPEC)		\$10,000		\$3,000
Sulemon Chaudhry, MD	Adam Griesemer, MD	Facilitation of Bone Marrow Engraftment Across the Pig-Baboon Xenogeneic Barrier Using Tregs	\$5,825			
David Woodland, MD	Mark A. Hardy, MD	Conversion of Mature Human Dendritic Cells to a Tolerogenic Phenotype by UVB Irradiation	\$5,600			
Estibaliz Castellero, PhD	Isaac George, MD	Adipose tissue-derived factors in cardiac and skeletal muscle metabolism in heart failure: potential role of myostatin	\$5,525			
Mauer	Matthew	Porcine Lung Decellularization using	\$5,205			

Biscotti, MD	Bacchetta, MD	Central ECMO				
Christine Schad, MD	Carrie Shawber, PhD	In vitro and in vivo analysis of sirolimus as a treatment for lymphatic malformations.	\$5,150			
Gopal Singh MD	Frank D'Ovidio, MD	Delivery of Nanoparticles in a Human Lung Micro Organ Culture and Macro Organ Culture Model as per EVLP	\$5,015			
Deniz Akkoc	Barry Esrig, MD	Platelet Reactivity in Acute Myocardial Interaction	\$4,475			
Julie Monteagudo, MD	June Wu, MD	Therapeutic Targeting of Lymphatic Dysfunction in Congenital Chylothorax	\$4,340			
Anna Joong, MD	Henry M. Spotnitz, MD	Three-dimensional echocardiography of post-operative single ventricle patients undergoing multisite ventricle pacing	\$4,300			
Yuliya Tipograf, MD	Jean Emond, MD	Surgical inflow modulation on the effect of hepatic hemodynamics on graft function and survival in adult-to-adult living donor liver transplants	\$4,225			
Robert Sorabella, MD	Michael Borger, MD	Impact of angiotensin receptor blockade and angiotensin-converting enzyme inhibition on RNA transcriptome in non-syndromic thoracic aortic aneurysms	\$4,125			
Elizabeth Stephens, MD, PhD	Hiroo Takayama, MD	Investigation of Aortic Valve Mechanical and Compositional Changes in Patients with Aortic Regurgitation while on LVAD Support	\$3,775		\$2,500	
Naikhoba Munabi	Jeffrey Ascherman, MD	Assessing the viability of vascularized lymph node transplantation for the treatment of chronic lymphedema in a rodent model	\$3,725			
Lauren Truby	Paul Kurlansky, MD	Contemporary Outcomes of Mechanical Circulatory Support Therapy: Analysis of RESCUE the Multicenter Registry for Cardiogenic Shock: Utility and Efficacy	\$3,600			

		of Device Therapy				
Marc Najjar	Michael Argenziano, MD	Analysis of Somatic Gene Variants in Sporadic Idiopathic Dilated Cardiomyopathy	\$3,600			
Abbey Fingeret, MD	James Lee, MD	Accuracy of a Novel Diagnostic Imaging Fusion Modality for Preoperative Localization of Parathyroid Adenoma in a Prospective Cohort of Patients with Primary Hyperparathyroidism	\$3,545			
Shinichi Fukuhara, MD	Yoshifumi Naka, MD	Impact of aggressive concurrent surgical valve procedures in patients receiving continuous-flow left ventricular assist devices	\$3,075			
Carla Kim	Joseph Costa, DHSc, PA-C	Targeted Metabolomics of Bile Acid as a Marker of Gastroesophageal Reflux Aspiration in Lung Transplantation	\$2,995			
Lewis Hwang	Joshua Sonett, MD	Biomarker Expression in Donor Lung Grafts and Development of Recipient Chronic Lung Allograft Dysfunction (CLAD)	\$2,995			
Jiho Han	Koji Takeda, MD	MicroRNA expression profile of donor myocardial tissue in the development of primary graft dysfunction after cardiac transplantation	\$2,725			
Krishnaraj Mahendraraj, MD	John Chabot, MD	Breast and Colon Cancer with Hepatic Metastases: An Epidemiological Study of Risk Factors, Management, and Clinical Outcomes	\$2,595			
Marguerite Hoyler, MD	Nicholas Morrissey, MD	A Comprehensive Database of CUMC Hemodialysis Vascular Access Patients	\$1,000			
Olushola Olorunipa	Christine Rohde, MD, MPH	Wearable Technology to Improve Resident Education and Patient Care	\$100,000		\$2,500	

Let's keep up the excellent work. Please be sure to email Paul Kurlansky (pk2245@columbia.edu) or myself (crs2@cumc.columbia.edu) with your confirmed publications, presentations, and grants as we will continue to send this newsletter monthly.

As a reminder, the PubMed links below should work for everyone. The journal-specific links will only work if you have a subscription to that journal or you are connected into the Columbia University library e-journal system.

Thank you,
Craig Smith, MD

Publications

Vergnat M, Roubertie F, Lambert V, Laux D, Ly M, Roussin R, Baruteau AE, Capderou A, Kalfa D, Belli E. Mitral Disease: The Real Burden for Ross-Konno Procedure in Children.. Ann Thorac Surg. 2014 Oct 10. pii: S0003-4975(14)01422-2. doi: 10.1016/j.athoracsur.2014.06.063.

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D Kalfa Invited Editorial Commentary: Understanding and not only observing: the key of the success in tissue engineering? J Thorac Cardiovasc Surg, 2014, doi: 10.1016/j.jtcvs.2014.09.079.

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D. Kalfa, G. Krishnamurthy, J. Duchon, M. Najjar, S. Levasseur, P. Chai, J. Chen, J. Quaegebeur, E. Bacha. Outcomes of cardiac surgery in patients less than 2.5 kg: impact of patient-dependent and patient-independent variables. J Thorac Cardiovasc Surg, 2014 Jul 31. pii: S0022-5223(14)01002-2. doi: 10.1016/j.jtcvs.2014.07.031.

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D. Kalfa, P. Chai, E. Bacha. Surgical volume to outcome relationship and monitoring of technical performance in pediatric cardiac surgery. Pediatric Cardiology, 2014 Aug;35(6):899-905.

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Technique of coronary sinus plasty for left pulmonary vein stenosis. D. Kalfa, W. Lai, A. Ferris, U Krishnan, E Bacha. Ann Thorac Surg, 2014 Jul;98(1):e27-9.

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Kurlansky P. Arterial grafting and the risk of sternal infection: How we can learn from our experience. J Thorac Cardiovasc Surg, in press. Available online 2 October 2014; DOI: 10.1016/j.jtcvs.2014.09.097.

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Zitsman JL, DiGiorgi MF, Fennoy I, Kopchinsky JS, Sysko R, Devlin MJ. Adolescent laparoscopic adjustable gastric banding (LAGB): prospective results in 137 patients followed for 3 years. *Surg Obes Relat Dis*. 2014 Jun 5. pii: S1550-7289(14)00241-X. doi: 10.1016/j.soard.2014.06.001. [Epub ahead of print].

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Presentations

Ascherman J. XPAND patient-activated controlled tissue expander system for breast reconstruction: A multi-center randomized controlled clinical trial. Eighty third annual meeting of the American Society of Plastic Surgeons. Chicago, Illinois. October 2014.

Ascherman J. Minimizing morbidity and optimizing aesthetic outcomes with the pedicle TRAM flap. Breast Surgery and Body Contouring Symposium. Santa Fe, New Mexico. August 2014.

Ascherman J. Immediate breast reconstruction with pedicle flaps. Breast Surgery and Body Contouring Symposium. Santa Fe, New Mexico. August 2014.

Ascherman J. Air filled tissue expanders—Is it time for a change? Breast Surgery and Body Contouring Symposium. Santa Fe, New Mexico. August 2014.

Grau JB, Johnson CK, Ferrari G, Shaw RE, Brizzio ME, Flores DJ, Montgomery DH, A.Zapolanski A. The Effects of Using a Radial Artery in Patients Already Receiving Bilateral Internal Mammary Arteries during Coronary Bypass Grafting: 30-Day Outcomes and 14-Year Survival in a Propensity-Matched Cohort. Annual Meeting of the European Association of CardioThoracic Surgery. Milan, Italy. Oct, 2014.

Grau JB. Clinical implication of genomics in the use of BIMA for coronary artery bypass graft. Annual Meeting of the European Association of CardioThoracic Surgery. Milan, Italy. Oct, 2014.

Kalfa D, Williams G, Pouponneau P, Pontailler M, Ahmad B, Vanneaux V, Larghero J, Bacha E, Menasché P. Tissue Engineering of the right Heart outflow tract by a biofunctionalized bioresorbable polymeric valved TUBE: preliminary results of the TEH-TUBE program. Annual meeting of the Congenital Heart Surgeon's Society CHSS, Chicago, USA, October 19-20th, 2014.

Pontailler M, Illangakoon E, Williams G, Marijon C, Balvay D, Autret G, Vanneaux V, Larghero J, Planat-Benard V, Perier MC, Bruneval P, Menasché P, Kalfa D Engineering of polymeric vascular grafts: is cell seeding still needed? Annual meeting of the Association for European Cardiovascular Pathology, Paris, France, October 9-11th, 2014.

Kalfa D. New Technologies for Surgery of the Congenital Cardiac Defect. Invited lecture at the Annual Meeting of the French Pediatric and Congenital Cardiology Group, Reims,

France, September 11-12th, 2014.

Kalfa D. Conservative Mitral Valve Surgery in Children. Invited lecture at the Annual Meeting of the French Pediatric and Congenital Cardiology Group, Reims, France, September 11-12th, 2014.

Kluger M. Surgical management of colorectal liver metastases. Hepatobiliary and pancreatic surgery symposium. Peking Union Medical College Hospital, Beijing, China. June, 2014.

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