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*College of Physicians  
and Surgeons*

Dear Faculty,

Please find below a list of our department's publications, presentations, and awards from June 2015. We appreciate your support in contributing each month and hope you are finding this a valuable resource.

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.

Please be sure to email Paul Kurlansky ([pk2245@columbia.edu](mailto:pk2245@columbia.edu)) or myself ([crs2@cumc.columbia.edu](mailto:crs2@cumc.columbia.edu)) with your confirmed publications, presentations, and grants for our upcoming issues.

Enjoy your summer,  
Craig Smith, MD

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## CONGRATULATIONS

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Blakemore Prizes recipients for the best body of research during the general surgery training program were awarded to Irene Epelboym (Michael Kluger sponsor) for clinical research in surgical oncology, and Abbey Fingeret (Roman Nowygrod sponsor) for research in Surgical Education. Also receiving a Blakemore award was Mauer Biscotti (Matthew Bacchetta sponsor) for studies of ECMO and lung replacement.

Megan Sykes received two major Grant Awards:

NIH/NIDDK

R01 DK103585

04/01/2015 – 03/31/2020

***Immune response to iPSC-derived beta cells in Type 1 diabetes***

The major goal of the studies in this proposal is to use a unique "Personalized Immune" mouse model to establish models for understanding how Type 1 diabetes develops and how stem cell-derived  $\beta$  cells can best be used to replace the insulin-producing cells that are destroyed in diabetes.

DoD Reconstructive Transplantation Research Award

MR 141045

06/01/2015 – 05/31/2017

***Establishment of donor chimerism using allogeneic bone marrow with AMP cell co-infusion***

The goal of this project is to determine if the addition of AMP cells can permit the achievement of durable chimerism in a well characterized cynomolgus macaque bone marrow transplant (BMT) model that otherwise achieves only transient chimerism without GVHD across MHC barriers.

Syed Tasnim Raza received U.S. patent approval for his [aortic stapling device](#).

Joseph Costa was the first Physician's Assistant ever to present before the European Society of Thoracic Surgeons (see below, Thoracic Surgery).

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## **CARDIAC SURGERY**

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### **Presentations**

Kasmi L, Montreuil M, Geronikola N, Lambert V, Murzi E, Belli E, Bonnet D, Kalfa D. Neuropsychological and psychosocial outcome in adults after neonatal arterial switch operation for transposition of the great arteries. Fourth Annual Cardiac Neurodevelopmental Symposium, Milwaukee, USA, June 3-5th, 2015.

### **Publications**

Borger MA. Minimally invasive rapid deployment Edwards Intuity aortic valve implantation. Ann Cardiothorac Surg. 2015 Mar;4(2):193-5. doi: 10.3978/j.issn.2225-319X.2014.11.13.

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Early and late outcomes of complex aortic root surgery in patients with aortic root abscesses. Leontyev S, Davierwala PM, Krögh G, Feder S, Oberbach A, Bakhtiary F, Misfeld M, Borger MA, Mohr FW. Eur J Cardiothorac Surg. 2015 Apr 12. pii: ezv138. [Epub ahead of print].

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Girdauskas E, Rouman M, Disha K, Espinoza A, Dubslaff G, Fey B, Theis B, Petersen I, Borger MA, Kuntze T. Aortopathy in patients with bicuspid aortic valve stenosis: role of

aortic root functional parameters. Eur J Cardiothorac Surg. 2015 Apr 7. pii: ezv123. [Epub ahead of print].

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Brusen RM, Hahn R, Cabreriza SE, Cheng B, Wang DY, Truong W, Spotnitz HM. Wall thickness, pulmonary hypertension, and diastolic filling abnormalities predict response to postoperative biventricular pacing. J Cardiothorac Vasc Anesth. 2015 Feb 7, [Epub ahead of print].

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Castillero E, Akashi H, Pendrak K, Yerebakan H, Najjar M, Wang C, Naka Y, Mancini DM, Sweeney HL, D'Armiento JM, Ali ZA, Schulze PC, George I. Attenuation of the Unfolded Protein Response and Endoplasmic Reticulum Stress after Mechanical Unloading in Dilated Cardiomyopathy. Am J Physiol Heart Circ Physiol. 2015 Jun 8:ajpheart.00056.2015. doi: 10.1152/ajpheart.00056.2015. [Epub ahead of print]. PMID: 26055788.

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Chai PJ. The Robin Hood principle in the treatment of congenital heart disease: Taking technologic developments intended for adults and using it in kids. J Thorac Cardiovasc Surg. 2015 May 29. pii: S0022-5223(15)00865-X. doi: 10.1016/j.jtcvs.2015.05.053. [Epub ahead of print].

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Garan AR, Levin A, Topkara V, Thomas SS, Yuzefpolskaya M, Colombo PC, Takeda K, Takayam H, Naka Y, Whang W, Jorde UP, Uriel N. Early Post-Operative Ventricular Arrhythmias in Patients with Continuous Flow Left Ventricular Assist Devices DOI: Reference: S1053-2498(15)01292-9. HEALUN6033 J Heart Lung Transplant.

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Kalfa D, Krishnamurthy G, Levasseur S, Najjar M, Chai P, Chen J, Quaegebeur J, Bacha E. Norwood Stage I Palliation in Patients Less Than or Equal to 2.5 kg: Outcomes and Risk Analysis. Ann Thorac Surg. 2015 May 29. pii: S0003-4975(15)00578-0. doi: 10.1016/j.athoracsur.2015.03.088. [Epub ahead of print].

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Kurlansky P. Diabetes: To graft or not to graft is no longer the question. J Thorac Cardiovasc Surg. 2015 May 21. pii: S0022-5223(15)00863-6. doi: 10.1016/j.jtcvs.2015.05.051. [Epub ahead of print] No abstract available.

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Stephens EH, Hope TA, Kari FA, Kvitting JP, Liang DH, Herfkens RJ, Miller DC. Greater asymmetric wall shear stress in Sievers' type 1/L-R compared with 0/LAT bicuspid aortic valves after valve-sparing aortic root replacement. J Thorac Cardiovasc Surg. 2015 Apr 10. pii: S0022-5223(15)00608-X. doi: 10.1016/j.jtcvs.2015.04.020. [Epub ahead of print].

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Stephens EH, Gaur P, Hotze KO, Correa AM, Kim MP, Blackmon SH. Super-Charged Pedicled Jejunal Interposition Performance Compares Favorably With a Gastric Conduit After Esophagectomy The Annals of Thoracic Surgery Published online: June 20, 2015.

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## COLORECTAL SURGERY

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### Publications

Sanaka MR, Rai T, Navaneethan U, Gohel TD, Podugu A, Thota PN, Lopez R, Kiran RP, Burke CA. Adenoma detection rate in high-risk patients differs from that in average-risk patients. Gastrointest Endosc. 2015 May 27. pii: S0016-5107(15)02330-5. doi: 10.1016/j.gie.2015.04.019. [Epub ahead of print].

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## GI/ENDOCRINE SURGERY

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### Publications

Rosenblatt R, Dorfman V, Epelboym I, Ponerros JM, Sethi A, Lightdale C, Woo Y, Gress FG, Allendorf JD, Schrope BA, Chabot JA, Gonda TA. Demographic features and natural history of intermediate-risk multifocal versus unifocal intraductal papillary mucinous neoplasms. *Pancreas*. 2015 Apr;44(3):478-83. doi: 10.1097/MPA.0000000000000264.

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## **IMMUNOLOGY**

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### **Invited Speaker**

Sykes, M: Roots and Mechanisms of Human Autoimmunity. New approaches to understanding human allo- and autoimmune responses. American Association of Immunologists. New Orleans, Louisiana. May 8-12, 2015.

### **Book Chapters**

Sykes M. Transplantation Immunology. In: The Cecil Text Book of Medicine, 25th Edition. (Eds), Goldman L, Ausiello, D. Philadelphia, PA; Saunders Elsevier; 2016. Vol. 1. Pp. 236-240.

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## **PEDIATRIC SURGERY**

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### **Publications**

Azarow KS, Cusick R, Wynn J, Chung W, Mychaliska GB, Crombleholme TM, Chung DH, Lim FY, Potoka D, Warner BW, Aspelund G, Arkovitz MS. The association between congenital diaphragmatic hernia and undescended testes. *J Pediatr Surg*. 2015 May;50(5):744-5. doi: 10.1016/j.jpedsurg.2015.02.025. Epub 2015 Feb 19.

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Yu L, Sawle AD, Wynn J, Aspelund G, Stolar CJ, Arkovitz MS, Potoka D, Azarow KS, Mychaliska GB, Shen Y, Chung WK. Increased burden of de novo predicted deleterious variants in complex congenital diaphragmatic hernia. *Hum Mol Genet* 2015 Jun 1 [Epub

ahead of print].

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## THORACIC SURGERY

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### Presentations

Costa J, Singh G, LaVelle M, Sreekanth S, Bacchetta M, Sonett JR, D'Ovidio F. ?Donors with a prior history of cardiac surgery are a viable source of lung allografts. 23rd European Conference on General Thoracic Surgery, Lisbon Portugal June 2015.

Costa J, Singh G, Sreekanth S, Raza K, Lederer D, Robbins H, Shah L, Sonett JR, Arcasoy S, D'Ovidio F. Donor lung assessment using selective pulmonary vein gases. 23rd European Conference on General Thoracic Surgery, Lisbon Portugal June 2015.

### Publications

Ebright MI. Seeing cancer in a new light. J Thorac Cardiovasc Surg. 2015 Apr 21. pii: S0022-5223(15)00656-X. doi: 10.1016/j.jtcvs.2015.04.029. [Epub ahead of print].

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Kato TS, Armstrong HF, Schulze PC, Lippel M, Amano A, Farr M, Bacchetta M, Bartels MN, Di Tullio MR, Homma S, Mancini D. Left and Right Ventricular Functional Dynamics Determined by Echocardiograms Before and After Lung Transplantation. Am J Cardiol. 2015 May 21. pii: S0002-9149(15)01351-X. doi: 10.1016/j.amjcard.2015.05.027. [Epub ahead of print].

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Mosca MS, Narotsky DL, Mochari-Greenberger H, Liao M, Mongero L, Beck J, Bacchetta M. Duration of conventional cardiopulmonary resuscitation prior to extracorporeal cardiopulmonary resuscitation and survival among adult cardiac arrest patients. Perfusion. 2015 Jun 16. pii: 0267659115589399. [Epub ahead of print].

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## VASCULAR SURGERY

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### **Presentations**

Kim K, Egorova N, Nowygrod R. Factors associated with deviation of actual versus expected length of stay in vascular surgery, Society for Vascular Surgery Annual Meeting, Chicago, June 17-20, 2015.

Ilonzo N, Egorova N, Nowygrod R. Interhospital transfer and readmissions, mortality and failure to rescue for elective abdominal aortic aneurysm repair. Society for Vascular Surgery Annual Meeting, Chicago, June 17-20, 2015.

### **Publications**

Egorova NN1, Siracuse JJ2, McKinsey JF3, Nowygrod R3. Trend, Risk Factors, and Costs of Clostridium difficile Infections in Vascular Surgery. Ann Vasc Surg. 2015 May;29(4):792-800. doi: 10.1016/j.avsg.2014.10.031. Epub 2015 Jan 14.

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