



COLUMBIA UNIVERSITY

*College of Physicians  
and Surgeons*



ColumbiaDoctors | *Surgery*

Dear Faculty Member,

This fall has been an active time with many of our colleagues receiving prestigious research grants.

Please continue to send updates on your own research activities to [Paul Kurlansky \(pk2245@columbia.edu\)](mailto:Paul.Kurlansky@cumc.columbia.edu) or me ([crs2@cumc.columbia.edu](mailto:crs2@cumc.columbia.edu)) before the first of every month. Be sure to include your confirmed publications, presentations, and grants.

All issues of this [newsletter](#) are now archived on the Center for Innovations and Outcomes Research web site. Remember that journal links below require a subscription or connection through the Columbia University library e-journal system, while pubmed links are accessible to all.

Best regards,

Craig R. Smith, MD

Chair, Department of Surgery

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## CONGRATULATIONS

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Dr. Megan Sykes has received the following NIH grant awards:

- P01 AI045897 (PI: Sykes/Sachs) 08/19/16 – 07/31/17  
NIH/NIAID TC: \$2,745,913

*A Tolerance Approach to Xenotransplantation; Proj 3: Tolerance of Adaptive and Innate Human Anti-Pig Immune Responses in Humanized Mice*

The goal is to use a humanized mouse model to determine the ability of mixed xenogeneic chimerism to tolerize components of the human immune system that

pose significant barriers to xenotransplantation.

- R56AI122332-01A1 (PI: Sykes) 08/19/16-07/31/17

NIH-NIAID TC: \$320,000

*Immune response to combined liver and bone marrow transplant for tolerance in NHP*

The goal is to investigate the potential for combined bone marrow and liver transplants to induce tolerance in a pre-clinical nonhuman primate model involving a non-myeloablative conditioning regimen and investigate the immunologic response to these transplants.

Dr. Nicholas Morrissey was awarded \$75,000 over two years as a co-investigator on the NIH RO3 Grant: *A pilot randomized trial of arteriovenous fistula versus arteriovenous graft in elderly patients with advanced kidney disease.*

Drs. Ravi Kiran and Onur Baser received a grant of \$190,544 from Intuitive Surgical to study *Clinical Outcomes among the Rectal Cancer Patients Undergoing Laparoscopic, Robotic and Open low Anterior Resections.*

Dr. Jeffrey Ascherman was named the President of the Northeastern Society of Plastic Surgeons.

Dr. Frank D'Ovidio and his team produced the *Best Abstract in Lung Transplantation* for their presentation at the 2016 European Respiratory Society, International Congress 2016 London, in September. Citation: D. Briganti, B. Aramini, C. Kim, R. Chan, B. Zhou, K. Raza, H. Robbins, L. Shah, S. Arcasoy, J. Sonett, F. Meloni, G. Di Paolo, and F. D'Ovidio: *Effects of Infections on Lipidomic Profile of Bronchial Washing and Bronchoalveolar Lavage after Lung Transplantation.*

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## CARDIAC SURGERY

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### Presentations

*European Association for Cardio-thoracic Surgery (EACTS) 30th Annual Meeting, Barcelona, Spain, Oct. 1-5th, 2016.*

Kalfa D, Pontailler M, Ahmad B, Pouponneau P, Blanchy M, Neffe A, Vanneaux V, Menashe P. Recent progress of the TEH-TUBE program: Tissue Engineering of a biofunctionalized bioresorbable polymeric Heart valved TUBE.

*American Heart Association (AHA) Scientific Sessions 2016. New Orleans, LA: November 12-16, 2016.*

Kurlansky P, Baser O, Nemeth S, Tingley J, Argenziano M, Smith C. East Meets West in the Assessment of Cardiac Risk: A Multicenter Comparative Study of the Influence of Racial, Ethnic and Cultural Risk Factors on Cardiac Surgical Risk Model Performance..

*Workshop on Regenerative Medicine, Bordeaux, France, Oct 27-29th, 2016.*

Voisin A, Blancy M, Foulc MP, Pouponneau P, Mbélé G, Menasche P, Kalfa D  
Improving the biointegration of polymeric scaffolds via their surface functionalization : RGD peptides grafting through low-pressure plasma treatment.

## **Publications**

Borger MA. *Avoiding pacemaker implantation with sutureless valves: Staying "on pace" in the era of transcatheter aortic valve replacement.* J Thorac Cardiovasc Surg. 2016;152:636-637.

[Journal link](#)

Dohmen PM, Lehmkuhl L, Borger MA, Misfeld M, Mohr FW. *Valve-in-Valve Replacement Using a Sutureless Aortic Valve.* Am J Case Rep. 2016 Oct 3;17:699-702.

[Pubmed link](#)

Kurlansky P, Herbert M, Prince S, Mack M. *CABG vs. PCI: Meds Matter. The impact of adherence to medical therapy on comparative outcomes.* Circulation 2016;134:1238-1246

[Journal link](#)

[Pubmed link](#)

Sorabella RA, Guglielmetti L, Bader A, Gomez A, Takeda K, Chai PJ, Takayama H, Bacha EA, Naka Y, George I. *The Use of Hypothermic Circulatory Arrest During Heart Transplantation Does Not Worsen Posttransplant Survival.* Ann Thorac Surg. 2016 Oct;102(4):1260-5.

[Journal link](#)

[Pubmed link](#)

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**CENTER FOR INNOVATION AND OUTCOMES RESEARCH (CIOR)**

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## **Presentations**

*American Heart Association (AHA) Scientific Sessions 2016. New Orleans, LA: November 12-16, 2016.*

Wang L, Baser O, Wells P, Peacock WF, Coleman C, Fermann GJ, Schein J, Crivera C. Effectiveness of rivaroxaban among patients diagnosed with pulmonary embolism.

Wang L, Baser O, Wells P, Peacock WF, Coleman C, Fermann GJ, Schein J, Crivera C. Benefit of early discharge among patients with low-risk pulmonary embolism: Focus on net clinical impact.

*International Society of Pharmacoeconomics and Outcomes Research (ISPOR) 19th Annual European Congress 2016. Vienna, Austria: October 29 - November 2, 2016.*

Wang L, Li L, Pandya S, Baser O. Evaluating socio-demographic characteristics of patients in the United States Department of Defense population.

Wang L, Li L, Pandya S, Baser O. A real-world evaluation of the clinical and economic burden of United States veteran patients with post-traumatic stress disorder. International Society of Pharmacoeconomics and Outcomes Research (ISPOR) 19th Annual European.

Wang L, Li L, Zhou X, Pandya S, Baser O. Evaluation of the clinical characteristics and economic burden of United States veteran patients diagnosed with the Hepatitis C virus.

Wang L, Li L, Zhou X, Pandya S, Baser O. Assessing the clinical and economic burden of prostate cancer in the United States veteran population.

Cinaroglu S, Baser O. Spatial distribution of the total number of medical devices in Turkey: a classification analysis.

Cinaroglu S, Baser O. Socio-economic status and self-rated health: are they good predictors of income? An analysis of survey panel data from Turkey.

Cinaroglu S, Baser O. Understanding the relationship between effectiveness and outcome indicators in health care.

Cinaroglu S, Guzel E, Baser O. The relationship between medical innovation and health expenditures.

Xie L, Zhang Q, Xin K, Wang Y, Yuce H, Özenbas D, Baser O. Health care utilization and economic burden of pancreatic cancer in the US Medicare population.

Xie L, Vaidya N, Xin K, Keshishian A, Yuce H, Özenbas D, Baser O. Evaluating the economic burden and health care utilization of lung cancer in the US Medicare population.

Xie L, Vaidya N, Xin K, Kariburyo MF, Yuce H, Baser O. evaluating the economic burden and health care utilization of breast cancer in the US Medicare population.

*Academy of Managed Care Pharmacy (AMCP) Nexus. National Harbor, MD: October 3-6, 2016.*

Xie L, Zhou S, Kariburyo F, Baser O, Fan T. Clinical and economic outcomes in patients with type 2 diabetes switching from basal insulin plus rapid-acting insulin to basal insulin plus glucagon-like peptide-1: A real-world observational study.

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## COLON AND RECTAL SURGERY

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### Presentations

*American College of Surgeons Clinical Congress. Washington, DC: October 16-20, 2016.*

Murray AC, Baser O, Pappou, Lee-Kong, Feingold RP, Kiran. Income, geography and hospital determine gaps in assimilation of minimally invasive technology for rectal cancer surgery.

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## GI SURGERY

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### Publications

Kluger MD, Cherqui D. Laparoscopic liver resection. In Clavien PA, Sarr MG, Fong Y, & Miyazaki M, eds. *Atlas of Upper Gastrointestinal and Hepato-Pancreato-Biliary Surgery*, 2nd ed. Berlin Heidelberg, Germany: Springer-Verlag, 2016.

Leinwand JC, Chabot JA, Kluger MD. *Preventing recurrence of diffuse malignant peritoneal mesothelioma*. Expert Rev Anticancer Ther. 2016 Sep;16(9):989-95

[Pubmed link](#)

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## IMMUNOLOGY

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### Presentations

*Symposium on Regenerative Medicine. Hallym-Uppsala Internation Symposium, Seoul,*

Korea, 9/30/2016.

M. Hardy, moderator

### **Publications**

Emond JC, Griesemer AD. *Tolerance in clinical liver transplantation: The long road ahead.* Hepatology. 2016 Oct 7.

[Journal link](#)

[Pubmed link](#)

Zuber J, Shonts B, Lau S, Obradovic A, Fu J, Yang S, Lambert M, Coley S, Weiner J, Thome J, DeWolf S, Farber DL, Shen Y, Caillat-Zucman S, Bhagat G, Griesemer A, Martinez M, Kato T, Sykes M. *Bidirectional intragraft alloreactivity drives the repopulation of human intestinal allografts and correlates with clinical outcome.* Science Immunology. 2016 October 07; 1(4)

[Journal link](#)

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## **PEDIATRIC SURGERY**

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### **Presentations**

*4th Annual Meeting of The Obesity Society and the American Society for Metabolic and Bariatric Surgery, New Orleans, LA 10/31-11/4.*

Cameo T, Zitsman J, Turkeyolu B, Zhang C, Vuguin P, Williams K, Oberfield SE, Fennoy I. *Glucose Homeostasis and  $\beta$ -Cell Function in Adolescents after Laparoscopic Adjustable Gastric Banding vs. Laparoscopic Sleeve Gastrectomy.*

Zitsman J, Breitfeller E, Lynch L, Woo-Baidal J, Sysko R, Fennoy I. *Short Term Weight Loss Following Sleeve Gastrectomy in Adolescents with Morbid Obesity vs Super Obesity.*

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## **THORACIC SURGERY**

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### **Presentations**

*2016 European Respiratory Society, International Congress 2016 London, UK 3-7 September.*

D. Briganti, B. Aramini, C. Kim R. Chan, B. Zhou, K. Raza, H. Robbins, L. Shah, S. Arcasoy, J. Sonett, F. Meloni, G. Di Paolo, and F. D'Ovidio. Differences in the lipidomic profile of bronchial washing (BW) and bronchoalveolar lavage (BAL) in lung transplanted patients.

D. Briganti, B. Aramini, C. Kim, R. Chan, B. Zhou, K. Raza, H. Robbins, L. Shah, S. Arcasoy, J. Sonett, F. Meloni, G. Di Paolo, and F. D'Ovidio. Effects of Infections on Lipidomic Profile of Bronchial Washing and Bronchoalveolar Lavage after Lung Transplantation.

## Publications

Dzierba AL, Brodie D, Bacchetta M, Muir J, Wasson L, Colabraro M, Gannon W, Connolly K, Biscotti M, Rietdijk W, Moitra V, Bakker J. *Ketamine use in sedation management in patients receiving extracorporeal membrane oxygenation*. Intensive Care Med. 2016 Nov;42(11):1822-1823.

[Journal link](#)

[Pubmed link](#)

Rosenzweig EB, Chicotka S, Bacchetta M. *Right ventricular assist device use in ventricular failure due to pulmonary arterial hypertension: Lessons learned*. J Heart Lung Transplant. 2016 Oct;35(10):1272-1274. doi: 10.1016/j.healun.2016.07.010.

[Journal link](#)

[Pubmed link](#)

Salna M, Bacchetta M. *Extracorporeal lung support*. Curr Opin Anaesthesiol. 2016 Oct 26.

[Journal link](#)

[Pubmed link](#)

Singh G, Coffey A, Neely R, Lambert D, Sonett J, Borczuk AC, Gorenstein L. *Pulmonary Kirsten Rat Sarcoma Virus Mutation Positive Mucinous Adenocarcinoma Arising in a Congenital Pulmonary Airway Malformation, Mixed Type 1 and 2*. Ann Thorac Surg. 2016 Oct;102(4):e335-7. doi: 10.1016/j.athoracsur.2016.01.104.

[Journal link](#)

[Pubmed link](#)

