



Dear Colleague,

This month our faculty members made substantial contributions in Breast, Cardiac, Colorectal, GI/Endocrine, Immunology/Transplantation, Pediatric and Plastic Surgery.

I'm also pleased to report that Nigel Bunnett, PhD, was awarded two major grants—one from NIH and the other from the Department of Defense, to continue his groundbreaking work on pain receptors.

This Research Letter 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.

Remember, journal links may require subscriptions or a log-in through the Columbia library while PubMed links are accessible to all. Where there is only a journal link, the paper has not yet been downloaded to PubMed.

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

CONGRATULATIONS

Nigel Bunnett, PhD, was awarded two major grants:

1. NIH: 1R01DK118971-01

Trafficking-dependent signaling of pain by protease-activated receptors
\$2,224,632

2. Department of Defense: DoD PR170507 W81XWH1810431

Receptors in Endosomes Mediate Chronic Pain Associated with Trauma and Stress:
Nonopioid Targets for Pain

\$1,499,355

Dr. Hester Shieh received the International Fetal Medicine and Surgery Society Young Investigator Travel Award at the 37th Annual International Fetal Medicine and Surgery Society Meeting in Bali, Indonesia in August, 2018.

BREAST SURGERY

Publications

Boughey JC, Alvarado MD, Lancaster RB, Fraser Symmans W, Mukhtar R, Wong JM, Ewing CA, Potter DA, Tuttle TM, Hieken TJ, Carter JM, Jakub JW, Kaplan HG, Buchanan CL, Jaskowiak NT, Sattar HA, Mueller J, Nanda R, Isaacs CJ, Pohlmann PR, Lynce F, Tousimis EA, Zeck JC, Lee MC, Lang JE, Mhawech-Fauceglia P, Rao R, Taback B, Chen M, Kalinsky KM, Hibshoosh H, Killelea B, Sanft T, Hirst GL, Asare S, Matthews JB, Perlmutter J, Esserman LJ; and I-SPY 2 Investigators. Surgical Standards for Management of the Axilla in Breast Cancer Clinical Trials with Pathological Complete Response Endpoint. *NPJ Breast Cancer*. 2018 Aug 17;4:26. doi: 10.1038/s41523-018-0074-6. eCollection 2018. Review.

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Partain N, Mokdad A, Puzziferri N, Porembka J, Seiler S, Christie A, Farr D, Rivers A, Marilyn Leitch A, Wooldridge R, Huth J, Rao R. Mammographic density changes in surgical weight loss-an indication for personalized screening. *BMC Med Imaging*. 2018 May 9;18(1):10. doi: 10.1186/s12880-017-0242-4.

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Rao R, Ludwig K, Bailey L, Berry TS, Buras R, Degnim A, Fayanju OM, Froman J, Golesorkhi N, Greenburg C, Ma AT, Mautner SK, Krontiras H, Sowden M, Wexelman B, Landercasper J. Select Choices in Benign Breast Disease: An Initiative of the American Society of Breast Surgeons for the American Board of Internal Medicine Choosing Wisely® Campaign. *Ann Surg Oncol*. 2018 Jul 2. doi: 10.1245/s10434-018-6584-5.

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CARDIAC SURGERY

Publications

Ando M, Takeda K, Kurlansky PA, Han J, Garan AR, Topkara VK, Yuzefpolskaya M, Colombo PC, Farr M, Naka Y, Takayama H. Impact of Sharing O Heart with Non-O Recipients: Simulation in the United Network for Organ Sharing Registry. *Ann Thorac Surg*. 2018 Aug 1. pii: S0003-4975(18)31042-7. doi: 10.1016/j.athoracsur.2018.06.039.

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Bacha EA. Management of Symptomatic Infants With Tetralogy of Fallot. *World J Pediatr Congenit Heart Surg*. 2018 Sep;9(5):546-547.

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Castillero E, Ali ZA, Akashi H, Giangreco N, Wang C, Stöhr EJ, Ji R, Zhang X, Kheysin N, Park JS, Hegde S, Patel S, Stein S, Cuenca C, Leung D, Homma S, Tatonetti NP, Topkara V, Takeda K, Colombo PC, Naka Y, Sweeney HL, Schulze PC, George I. Structural and Functional Cardiac Profile after Prolonged Duration of Mechanical Unloading: Potential Implications for Myocardial Recovery. *Am J Physiol Heart Circ Physiol*. 2018 Aug 24. doi: 10.1152/ajpheart.00187.2018.

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Fuchs A, Kofoed KF, Yoon SH, Schaffner Y, Bieliauskas G, Thyregod HG, Makkar R, Søndergaard L, De Backer O, Bapat V. Commissural Alignment of Bioprosthetic Aortic Valve and Native Aortic Valve Following Surgical and Transcatheter Aortic Valve Replacement and its Impact on Valvular Function and Coronary Filling. *JACC Cardiovasc Interv*. 2018 Aug 7. pii: S1936-8798(18)31216-0. doi: 10.1016/j.jcin.2018.05.043.

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Gritti M, Ferris A, Shah A, Bacha E, Kalfa D. "Splint" Mitral Valve Repair for Destructive Endocarditis in Children. *World J Pediatr Congenit Heart Surg*. 2018 Aug 21:2150135117751914. doi: 10.1177/2150135117751914.

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Kobsa S, Takayama H. MAC: "Mitral annular calcification" or a "modern approach to concept learning" in surgery. *J Thorac Cardiovasc Surg*. 2018 Jul 20. pii: S0022-5223(18)31805-1. doi: 10.1016/j.jtcvs.2018.06.058.

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LaPar DJ, Baird CW. Surgical Considerations in Interrupted Aortic Arch. *Semin Cardiothorac Vasc Anesth*. 2018 Sep;22(3):278-284.

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Welch D, Buonanno M, Shuryak I, Randers-Pehrson G, Spotnitz HM, Brenner DJ. Effect of far ultraviolet light emitted from an optical diffuser on methicillin-resistant *Staphylococcus aureus* in vitro. *PLoS One*. 2018 Aug 10;13(8):e0202275. doi: 10.1371/journal.pone.0202275. eCollection 2018.

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COLON AND RECTAL SURGERY

Publications

Hyde LZ, Al-Mazrou AM, Kuritzkes BA, Suradkar K, Valizadeh N, Kiran RP. Readmissions after colorectal surgery: not all are equal. *Int J Colorectal Dis*. 2018 Aug 30. doi: 10.1007/s00384-018-3150-3.

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GI/ENDOCRINE SURGERY

Publications

Book Chapters

Kluger MD, Chabot JA. Is there a role for the surgeon in the management of locally-advanced pancreatic cancer? Chapter 51. In Chu QD, Vollmer CM, Zibari GB, Orloff

SL, Williams M, & Gimenez ME, eds. Hepato-Pancreato-Biliary and Transplant Surgery: Practical Management of Dilemmas. Shreveport, LA: Beaux Books Publishing, 2018.

Wang Z, Sandri GBL, Parikh A, Tao Y, Kluger MD, Loffroy R, eds. Hepatic Surgery. 1st ed. Hong Kong, China: AME Publishing Company, 2018.

IMMUNOLOGY/TRANSPLANTATION SURGERY

Publications

Batal I, Mohan S, De Serres SA, Vasilescu ER, Tsapepas D, Crew RJ, Patel SS, Serban G, McCune K, Husain SA, Chang JH, Herter JM, Bhagat G, Markowitz GS, D'Agati VD, Hardy MA, Ratner L, Chandraker A. Analysis of dendritic cells and ischemia-reperfusion changes in postimplantation renal allograft biopsies may serve as predictors of subsequent rejection episodes. *Kidney Int.* 2018 May;93(5):1227-1239. doi: 10.1016/j.kint.2017.12.015.

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Halazun KJ, Tabrizian P, Najjar M, Florman S, Schwartz M, Michelassi F, Samstein B, Brown RS Jr, Emond JC, Busuttil RW, Agopian VG. Is it Time to Abandon the Milan Criteria?: Results of a Bicoastal US Collaboration to Redefine Hepatocellular Carcinoma Liver Transplantation Selection Policies. *Ann Surg.* 2018 Jul 24. doi: 10.1097/SLA.0000000000002964.

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Mohan S, Chiles MC, Patzer RE, Pastan SO, Husain SA, Carpenter DJ, Dube GK, Crew RJ, Ratner LE, Cohen DJ. Factors leading to the discard of deceased donor kidneys in the United States. *Kidney Int.* 2018 Jul;94(1):187-198. doi: 10.1016/j.kint.2018.02.016.

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Sachs DH. Transplantation tolerance through mixed chimerism: From allo to xeno. *Xenotransplantation.* 2018 May;25(3):e12420. doi: 10.1111/xen.12420.

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Samstein B, Griesemer A, Halazun K, Kato T, Guarrera JV, Cherqui D, Emond JC. Pure Laparoscopic Donor Hepatectomies: Ready for Widespread Adoption? *Ann Surg*. 2018 Aug 10. doi: 10.1097/SLA.0000000000002959.

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PEDIATRIC SURGERY

Presentations

*The 37th Annual International Fetal Medicine and Surgery Society Meeting
Bali, Indonesia, August 7-12, 2018*

Shieh HF, Tracy SA, Hong CR, Chalphin AV, Ahmed A, Rohrer L, Zurakowski D, Fauza DO. Transamniotic Stem Cell Therapy (TRASCET) in a Leporine Model of Spina Bifida.

PLASTIC SURGERY

Publications

Lee JC, Morrison KA, Maeng MM, Ascherman JA, Rohde CH. Financial Implications of Atypical Mycobacterial Infections After Cosmetic Tourism: Is It Worth the Risk? *Ann Plast Surg*. 2018 Sep;81(3):269-273. doi: 10.1097/SAP.0000000000001563.

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Lee JC, Ishtihar S, Means JJ, Wu J, Rohde CH. "In Search of An Ideal Closure Method: A Randomized, Controlled Trial of Octyl-2-cyanoacrylate and Adhesive Mesh Versus Subcuticular Suture in Reduction Mammoplasty". *Plast Reconstr Surg*. 2018 Jun 30. doi: 10.1097/PRS.0000000000004726.

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Weinstein B, Henderson PW, Means JJ, Weinstein AL, Prince MR, Rohde CH. Plastic surgeons' opinions and practices regarding compatibility of MRI and breast tissue expanders. *J Plast Reconstr Aesthet Surg*. 2018 Aug;71(8):1123-1128. doi: 10.1016/j.bjps.2018.04.015.

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