



COLUMBIA UNIVERSITY

*College of Physicians
and Surgeons*



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Dear Colleagues,

Our faculty rounded out the year with contributions in Basic Science, Cardiac and Thoracic Surgery, Colon and Rectal Surgery, Immunology, Pediatric and Plastic Surgery. We are looking forward to a year of robust research in 2018.

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.

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
Chair, Department of Surgery

CONGRATULATIONS

Joshua Sonett, MD, has been elected treasurer of the International Thymic Malignancy Interest Group.

BASIC SCIENCE

Publications

De Logu F, Nassini R, Materazzi S, Carvalho Gonçalves M, Nosi D, Rossi Degl'Innocenti D, Marone IM, Ferreira J, Li Puma S, Benemei S, Trevisan G, Souza Monteiro de Araújo D, Patacchini R, Bunnnett NW, Geppetti P. Schwann cell TRPA1 mediates neuroinflammation that sustains macrophage-dependent neuropathic pain in

mice. *Nat Commun*. 2017 Dec 1;8(1):1887. doi: 10.1038/s41467-017-01739-2.

[Journal link](#)

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CARDIAC SURGERY

Presentations

*50th Anniversary of the First Human Heart Transplant, ISACB
Capetown, South Africa, December 4, 2017*

Ferrari G. Advanced Glycation End Products: Pathophysiologic Role and Therapeutic Target in Ascending Aortic Disease

Publications

ACC/AATS/AHA/ASE/EACTS/HVS/SCA/SCAI/SCCT/SCMR/STS 2017 Appropriate Use Criteria for the Treatment of Patients With Severe Aortic Stenosis: A Report of the American College of Cardiology Appropriate Use Criteria Task Force, American Association for Thoracic Surgery, American Heart Association, American Society of Echocardiography, European Association for Cardio-Thoracic Surgery, Heart Valve Society, Society of Cardiovascular Anesthesiologists, Society for Cardiovascular Angiography and Interventions, Society of Cardiovascular Computed Tomography, Society for Cardiovascular Magnetic Resonance, and Society of Thoracic Surgeons. Aortic Stenosis Writing Group, Bonow RO, Brown AS, Gillam LD, Kapadia SR, Kavinsky CJ, Lindman BR, Mack MJ, Thourani VH; Aortic Stenosis Rating Panel, Dehmer GJ, Bonow RO, Lindman BR, Beaver TM, Bradley SM, Carabello BA, Desai MY, George I, Green P, Holmes DR Jr, Johnston D, Leipsic J, Mick SL, Passeri JJ, Piana RN, Reichek N, Ruiz CE, Taub CC, Thomas JD, Turi ZG; Appropriate Use Criteria Task Force, Doherty JU, Dehmer GJ, Bailey SR, Bhave NM, Brown AS, Daugherty SL, Dean LS, Desai MY, Duvernoy CS, Gillam LD, Hendel RC, Kramer CM, Lindsay BD, Manning WJ, Mehrotra P, Patel MR, Sachdeva R, Wann LS, Winchester DE, Allen JM. *J Am Soc Echocardiogr*. 2017 Dec 16. pii: S0894-7317(17)30760-5. doi: 10.1016/j.echo.2017.10.020. [Epub ahead of print]

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Bacha E. Aortic coarctation decision making comes of age. *J Thorac Cardiovasc Surg* 2017; Nov 22. pii: S0022-5223(17)32745-9. doi: 10.1016/j.jtcvs.2017.11.058. [Epub ahead of print] No abstract available.

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Castaño A, Narotsky DL, Hamid N, Khalique OK, Morgenstern R, DeLuca A, Rubin J,

Chiuzan C, Nazif T, Vahl T, George I, Kodali S, Leon MB, Hahn R, Bokhari S, Maurer MS. Unveiling transthyretin cardiac amyloidosis and its predictors among elderly patients with severe aortic stenosis undergoing transcatheter aortic valve replacement. *Eur Heart J*. 2017 Oct 7;38(38):2879-2887. doi: 10.1093/eurheartj/ehx350.

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Clerkin KJ, Topkara VK, Demmer RT, Dizon JM, Yuzefpolskaya M, Fried JA, Mai X, Mancini DM, Takeda K, Takayama H, Naka Y, Colombo PC, Garan AR. Implantable Cardioverter-Defibrillators in Patients With a Continuous-Flow Left Ventricular Assist Device: An Analysis of the INTERMACS Registry. *JACC Heart Fail*. 2017 Dec;5(12):916-926.

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Kennel PJ, Saha A, Maldonado DA, Givens R, Brunjes DL, Castillero E, Zhang X, Ji R, Yahia A, George I, Mancini DM, Koller A, Fine B, Zorn E, Colombo PC, Tatonetti N, Chen EI, Schulze PC. Serum exosomal protein profiling for the non-invasive detection of cardiac allograft rejection. *J Heart Lung Transplant*. 2017 Jul 19. pii: S1053-2498(17)31903-4. doi: 10.1016/j.healun.2017.07.012. [Epub ahead of print]

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Praz F, George I, Khalique OK, Kodali SK. Embolic protection for tricuspid valve-in-valve intervention. *Eur Heart J* 2017 Oct 28. doi: 10.1093/eurheartj/ehx627. [Epub ahead of print]

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Schwann TA, Tatoulis J, Puskas J, Bonnell M, Taggart D, Kurlansky P, Jacobs JP, Thourani VH, O'Brien S, Wallace A, Engoren MC, Tranbaugh RF, Habib RH. Worldwide Trends in Multi-arterial Coronary Artery Bypass Grafting Surgery 2004-2014: A Tale of 2 Continents. *Semin Thorac Cardiovasc Surg*. 2017 Autumn;29(3):273-280. doi: 10.1053/j.semtcvs.2017.05.018. Epub 2017 Aug 8.

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Stephens EH, Han J, Trawick EA, Di Martino ES, Akkiraju H, Brown LM, Connell JP, Grande-Allen KJ, Vunjak-Novakovic G, Takayama H. Left-Ventricular Assist Device Impact on Aortic Valve Mechanics, Proteomics and Ultrastructure. *Ann Thorac Surg*. 2017 Dec 6. pii: S0003-4975(17)31132-3. doi: 10.1016/j.athoracsur.2017.08.030. [Epub ahead of print]

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Thourani VH, Forcillo J, Szeto WY, Kodali SK, Blackstone EH, Lowry AM, Semple M, Rajeswaran J, Makkar RR, Williams MR, Bavaria JE, Herrmann HC, Maniar HS, Babaliaros VC, Smith CR, Trento A, Corso PJ, Pichard AD, Miller DC, Svensson LG, Kapadia S, Ailawadi G, Suri RM, Greason KL, Hahn RT, Jaber WA, Alu MC, Leon MB, Mack MJ; PARTNER Trial Investigators. Outcomes in 937 Intermediate-Risk Patients Undergoing Surgical Aortic Valve Replacement in PARTNER 2A. *Ann Thorac Surg*. 2017 Dec 15. pii: S0003-4975(17)31617-X. doi: 10.1016/j.athoracsur.2017.10.062. [Epub ahead of print]

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Welch D, Spotnitz HM, Brenner DJ. Measurement of UV Emission from a Diffusing Optical Fiber Using Radiochromic Film. *Photochem Photobiol*. 2017 Nov;93(6):1509-1512. doi: 10.1111/php.12798. Epub 2017 Jul 21.

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Welch D, Randers-Pehrson G, Spotnitz HM, Brenner DJ. Unlaminated GAFChromic EBT3 Film for Ultraviolet Radiation. *Radiat Prot Dosimetry*. 2017 Nov 1;176(4):341-346.

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COLON AND RECTAL SURGERY

Publications

Gash KJ, Baser O, Kiran RP. Factors associated with degree of tumour response to neo-adjuvant radiotherapy in rectal cancer and subsequent corresponding outcomes. *Eur J Surg Oncol*. 2017 Nov;43(11):2052-2059.

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Li W, Stocchi L, Elagili F, Kiran RP, Strong SA. Healing of the perineal wound after proctectomy in Crohn's disease patients: only preoperative perineal sepsis predicts poor outcome. *Tech Coloproctol*. 2017 Sep;21(9):715-720.

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Suradkar K, Pappou EE, Lee-Kong SA, Feingold DL, Kiran RP. Anal canal squamous cell cancer: are surgical alternatives to chemoradiation just as effective? *Int J Colorectal Dis*. 2017 Dec 21. doi: 10.1007/s00384-017-2938-x. [Epub ahead of print]

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IMMUNOLOGY/TRANSPLANTATION

Publications

Cooper DKC, Cowan P, Fishman JA, Hering BJ, Mohiuddin MM, Pierson RN 3rd, Sachs DH, Schuurman HJ, Dennis JU, Tönjes RR. Miscellaneous. *Xenotransplantation*. 2017 Nov;24(6). doi: 10.1111/xen.12365. Epub 2017 Nov 28.

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Rahnemai-Azar AA, Griesemer AD, Velasco ML, Kato T. Ex vivo excision of retroperitoneal soft tissue tumors: A case report. *Oncol Lett*. 2017 Oct;14(4):4863-4865.

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PEDIATRIC SURGERY

Publications

Pedroso FE, Angriman F, Endo A, Dasenbrock H, Storino A, Castillo R, Watkins AA, Castillo-Angeles M, Goodman JE, Zitsman JL. Weight loss after bariatric surgery in obese adolescents: a systematic review and meta-analysis. *Surg Obes Relat Dis*. 2017 Oct 10. pii: S1550-7289(17)30972-3. doi: 10.1016/j.soard.2017.10.003. [Epub ahead of print]

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PLASTIC SURGERY

Publications

Marano AA, Henderson PW, Prince MR, Dashnaw SM, Rohde CH. Effect of MRI on breast tissue expanders and recommendations for safe use. *J Plast Reconstr Aesthet Surg*. 2017 Dec;70(12):1702-1707.

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Toyoda Y, Fu RH, Li L, Otterburn DM, Rohde CH. Smoking as an Independent Risk Factor for Postoperative Complications in Plastic Surgical Procedures: A Propensity Score-Matched Analysis of 36,454 Patients from the NSQIP Database from 2005 to 2014. *Plast Reconstr Surg*. 2018 Jan;141(1):226-236. doi: 10.1097/PRS.0000000000003963.

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THORACIC SURGERY

Publications

Benvenuto LJ, Anderson DR, Kim HP, Hook JL, Shah L, Robbins HY, D'Ovidio F, Bacchetta M, Sonett JR, Arcasoy SM; Columbia University Lung Transplant Program. Geographic disparities in donor lung supply and lung transplant waitlist outcomes: A Cohort Study. *Am J Transplant*. 2017 Dec 21. doi: 10.1111/ajt.14630. [Epub ahead of print]

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