

Center for Precision Medicine Member Publications

List begins with start date of membership

2020

January 2020

1. Ali YM, Sweeney J, Shen P, Votanopoulos KI, McQuellon R, Duckworth K, Perry KC, Russell G, **Levine EA**. *Effect of Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy on Quality of Life in Patients with Peritoneal Mesothelioma*. *Ann Surg Oncol*. 2020 Jan;27(1):117-123. PMID: PMC6842037. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc6842037/>
2. **Almeida-Porada G**, Atala AJ, **Porada CD**. *Therapeutic mesenchymal stromal cells for immunotherapy and for gene and drug delivery*. *Mol Ther Methods Clin Dev*. 2020 Jan 22;16:204-224. PMID: PMC7012781. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7012781/>
3. Almeida FA, Michaud TL, Wilson KE, Schwab RJ, Goessl C, Porter GC, Brito FA, Evans G, **Dressler EV**, Boggs AE, Katula JA, Sweet CC, Estabrooks PA. *Preventing diabetes with digital health and coaching for translation and scalability (PREDICTS): A type 1 hybrid effectiveness-implementation trial protocol*. *Contemp Clin Trials*. 2020 Jan;88:105877. PMID: 31682941. <https://doi.org/10.1016/j.cct.2019.105877>
4. Causey-Upton R, Howell DM, Kitzman PH, Custer MG, **Dressler EV**. *Preoperative Education for Total Knee Replacement: A National Survey of Orthopaedic Nurses*. *Orthop Nurs*. 2020 Jan/Feb; 39 (1):23-34. PMID: 31977738. <https://doi.org/10.1097/nor.0000000000000623>
5. Chevli PA, Aladin AI, Kanaya AM, Kandula NR, Malaver D, **Herrington DM**. *Alcohol consumption and subclinical atherosclerosis among South Asians: Findings from the Mediators of Atherosclerosis in South Asians Living in America (MASALA) study*. *Nutr Metab Cardiovasc Dis*. 2020 Jan 3; 30(1):123-131. PMID: PMC6934907. <https://doi.org/10.1016/j.numecd.2019.07.021>
6. Chiba A, Bawaneh A, Velazquez C, Clear KY, Wilson AS, Howard-McNatt M, **Levine EA**, Levi-Polyachenko N, Yates-Alston SA, Diggle S, Soto-Pantoja DR, Cook KL. *Neoadjuvant chemotherapy shifts breast tumor microbiota populations to regulate drug responsiveness and the development of metastasis*. *Mol Cancer Res*. 2020 Jan; 18(1): 130-139. PMID: 31628201. <https://doi.org/10.1158/1541-7786.mcr-19-0451>
7. Chouliaras K, Russell G, **Levine E**, Howerton R, Votanopoulos K, Clark C, Shen P. *Hepatic arterial infusion chemotherapy for colorectal liver metastases revisited*. *HPB (Oxford)*. 2020 Sep;22(9):1265-1270. PMID: PMC7365757. <https://doi.org/10.1016/j.hpb.2019.12.003>
8. Enomoto LM, Choudry MH, Bartlett DL, Totin L, Mann GN, Skitzki JJ, Perry KC, Votanopoulos KI, **Levine EA**, Shen P. *Outcomes After Adjuvant Hyperthermic Intraperitoneal Chemotherapy for High-Risk Primary Appendiceal Neoplasms After Complete Resection*. *Ann Surg Oncol*. 2020 Jan;27(1):107-114. PMID: 31368017. <https://doi.org/10.1245/s10434-019-07634-y>
9. Holguin F, Cardet JC, Chung KF, Diver S, Ferreira D, Fitzpatrick A, Gaga, Mina; Kellermeyer L, Khurana S, Knight S, McDonald V, Morgan R, **Ortega VE**, Rigau D, Subbarao P, Tonia T, Adcock I, Bleecker ER, Brightling C, Boulet L, Cabana M, Castro M, Chanez P, Custovic A, Djukanovic R, Frey U, Frankemolle B, Gibson P, Hamerlijnck D, Jarjour N, Konno S, Shen H, Vitary C, Bush A. *Management of Severe Asthma: a European Respiratory Society/American Thoracic Society Guideline*. *Eur Respir J* 2020 Jan; 2:55(1):1900588. PMID: 31558662. <https://doi.org/10.1183/13993003.00588-2019>
10. Kallupi M, Carrette LLG, Kononoff J, **Solberg Woods LC**, Palmer AA, Schweitzer P, George O, de Guglielmo G. *Nociceptin attenuates the escalation of oxycodone self-administration by normalizing CeA-GABA transmission in highly addicted rats*. *Proc Natl Acad Sci U S A*. 2020 Jan 28; 117: (4)2140-2148. PMID: PMC6994987. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc6994987/>

11. LeCompte MC, Hughes RT, Farris M, Masters A, Soike MH, Lanier C, Glenn C, Cramer CK, **Watabe K**, Su J, Ruiz J, Whitlow CT, Wang G, Laxton AW, Tatter SB, Chan MD. *Impact of brain metastasis velocity on neurologic death for brain metastasis patients experiencing distant brain failure after initial stereotactic radiosurgery.* J Neurooncol. 2020 Jan;146(2):285-292. PMID: 31894518. <https://doi.org/10.1007/s11060-019-03368-9>
12. Li X, Hastie AT, Peters MC, **Hawkins GA**, Phipatanakul W, Li H, Moore WC, Busse WW, Castro M, Erzurum SC, Gaston B, Israel E, Jarjour NN, Levy BD, Wenzel SE, Meyers DA, Fahy JV, Bleecker ER; National Heart, Lung, and Blood Institute's Severe Asthma Research Program (SARP) Networks. *Investigation of the relationship between IL-6 and type 2 biomarkers in patients with severe asthma.* J Allergy Clin Immunol. 2020 Jan; 145(1): 430-433. PMID: 31513878. <https://doi.org/10.1016/j.jaci.2019.08.031>
13. McTyre ER, Soike MH, Farris M, Ayala-Peacock DN, Hepel JT, Page BR, Shen C, Kleinberg L, Contessa JN, Corso C, Chiang V, Henson-Masters A, Cramer CK, Ruiz J, **Pasche B**, **Watabe K**, D'Agostino R, Su J, Laxton AW, Tatter SB, Fiveash JB, Ahluwalia M, Kotecha R, Chao ST, Braunstein SE, Attia A, Chung C, Chan MD. *Multi-institutional validation of brain metastasis velocity, a recently defined predictor of outcomes following stereotactic radiosurgery.* Radiother Oncol. 2020 Jan: 142:168-174. PMID: 31526671. <https://doi.org/10.1016/j.radonc.2019.08.011>
14. **Misra BB**, Misra A. *The chemical exposome of type 2 diabetes mellitus: Opportunities and challenges in the omics era.* Diabetes Metab Syndr. 2020 Jan-Feb;14(1):23-38. PMID: 31838434. <https://doi.org/10.1016/j.dsx.2019.12.001>
15. Moaven O, Clark CJ, Russell GB, Votanopoulos KI, Howerton R, **Levine EA**, Shen P. *Optimal adjuvant treatment approach after upfront resection of pancreatic cancer: revisiting the role of radiation based on pathologic features.* Ann Surg. 2020 Jan 6;10.1097/SLA.0000000000003770. PMCID: PMC7335684. <https://doi.org/10.1097/sla.0000000000003770>
16. Murphy SV, Skardal A, Nelson RA Jr, Sunnon K, Reid T, Clouse C, Kock ND, Jackson J, **Soker S**, Atala A. *Amnion Membrane Hydrogel and Amnion Membrane Powder Accelerate Wound Healing in a Full Thickness Porcine Skin Wound Model.* Stem Cells Transl Med. 2020 Jan; 9(1):80-92 PMCID: PMC6954699. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc6954699/>
17. Peak TC, Panigrahi GK, Prahara PP, Su Y, Shi L, Chyr J, Rivera-Chávez J, Flores-Bocanegra L, Singh R, Vander Griend DJ, Oberlies NH, Kerr BA, Hemal A, Bitting RL, **Deep G**. *Syntaxin 6-mediated exosome secretion regulates enzalutamide resistance in prostate cancer.* Mol Carcinog. 2020 Jan; 59(1):62-72. PMCID: PMC6916724. <https://doi.org/10.1002/mc.23129>
18. Singleton MJ, German C, Hari KJ, Saylor G, **Herrington DM**, Soliman EZ, Freedman BI, **Bowden DW**, Bhave PD, Yeboah J. *QRS duration is associated with all-cause mortality in type 2 diabetes: The diabetes heart study.* J Electrocardiol. 2020 Jan-Feb; 58:150-154. PMID: 31895990. <https://doi.org/10.1016/j.jelectrocard.2019.11.053>
19. Sirkisoon SR, Carpenter RL, Rimkus T, Doheny D, Zhu D, Aguayo NR, Xing F, Chan M, Ruiz J, Metheny-Barlow LJ, **Strowd R**, Lin J, Regua AT, Arrigo A, Anguelov M, **Pasche B**, **Debinski W**, **Watabe K**, Lo HW. *TGLI1 transcription factor mediates breast cancer brain metastasis via activating metastasis-initiating cancer stem cells and astrocytes in the tumor microenvironment.* Oncogene. 2020 Jan;39(1):64-78. PMCID: PMC6938539. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc6938539/>
20. Suerken CK, D'Agostino RB Jr, Jordan JH, **Meléndez GC**, Vasu S, Lamar ZS, Hundley WG. *Simultaneous Left Ventricular Volume and Strain Changes During Chemotherapy Associate With 2-Year Postchemotherapy Measures of Left Ventricular Ejection Fraction.* J Am Heart Assoc. 2020 Jan 21;9(2):e015400. PMCID: PMC7033821. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7033821/>
21. Symons LK, Miller JE, Tyryshkin K, Monsanto SP, Marks RM, Lingegowda H, Vanderbeck K, Childs T, Young SL, **Lessey BA**, Koti M, Tayade C. *Neutrophil recruitment and function in endometriosis patients and a syngeneic murine model.* FASEB J. 2020 Jan;34(1):1558-1575. PMID: 31914688. <https://doi.org/10.1096/fj.201902272r>

22. Wechsler ME, **Ortega VE**, Israel E; NHLBI AsthmaNet. *Step-Up Therapy in Black Patients with Asthma*. Reply. N Engl J Med. 2020 Jan 23; 382:391-392. PMID: 31971690. <https://doi.org/10.1056/nejmc1915819>
23. Yosef B, Zhou Y, Mouschouris K, Poteracki J, **Soker S**, **Criswell T**. *N-Acetyl-L-Cysteine reduces fibrosis and improves muscle function after acute compartment syndrome injury*. Mil Med. 2020 Jan 7;185 (Supplement-1): 25-34 PMID: PMC7029776. <https://doi.org/10.1093/milmed/usz232>
24. Zein J, Gaston B, Bazeley P, DeBoer MD, Igo RP Jr, Bleecker ER, Meyers D, Comhair S, Marozkina NV, Cotton C, Patel M, Alyamani M, Xu W, Busse WW, Calhoun WJ, **Ortega V**, **Hawkins GA**, Castro M, Chung KF, Fahy JV, Fitzpatrick AM, Israel E, Jarjour NN, Levy B, Mauger DT, Moore WC, Noel P, Peters SP, Teague WG, Wenzel SE, Erzurum SC, Sharifi N. *HSD3B1 genotype identifies glucocorticoid responsiveness in severe asthma*. Proc Natl Acad Sci U.S.A. 2020 Jan 28; 117 (4):2187-2193. PMID: PMC6995013. <https://doi.org/10.1073/pnas.1918819117>

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25. Clancy RM, Marion MC, Ainsworth HC, Blaser MJ, Chang M, **Howard TD**, Izmirly PM, Lacher C, Masson M, Robins K, Buyon JP, **Langefeld CD**. *Salivary dysbiosis and the clinical spectrum in anti-Ro positive mothers of children with neonatal lupus*. J Autoimmun. 2020 Feb; 107:102354. PMID: PMC7192221. <https://doi.org/10.1016/j.jaut.2019.102354>
26. Cohen EP, Olson JD, Tooze JA, Bourland JD, Dugan GO, **Cline JM**. *Detection and quantification of renal fibrosis by computerized tomography*. PLoS One. 2020 Feb 13; 15:e0228626. PMID: PMC7018060. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7018060/>
27. Enck K, Banks S, **Yadav H**, Welker ME, Opara EC. *Development of a novel oral delivery vehicle for probiotics*. Curr Pharm Des. 2020; 26(26): 3134-3140. PMID: 32039674. <https://doi.org/10.2174/1381612826666200210111925>
28. Enomoto LM, **Levine EA**, Shen P, Votanopoulos KI. *Role of Surgery for Metastatic Melanoma*. Surg Clin North Am. 2020 Feb;100(1):127-139. PMID: 31753107. <https://doi.org/10.1016/j.suc.2019.09.011>
29. Evans RJ, Overholt T, Colaco M, **Walker SJ**. *Injection location does not impact botulinum toxin A efficacy in interstitial cystitis/bladder pain syndrome patients*. Can J Urol. 2020 Feb; 27(1):10125-10129. PMID: 32065870. <https://www.canjurol.com/abstract.php?ArticleID=&version=1.0&PMID=32065870>
30. Hartman DJ, Van Der Laak JAWM, **Gurcan MN**, Pantanowitz L. *Value of Public Challenges for the Development of Pathology Deep Learning Algorithms*. J Pathol Inform. 2020 Feb 26;11:7. PMID: PMC7147520. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7147520/>
31. Hisrich BV, Young RB, Sansone AM, Bowens Z, Green LJ, **Lessey BA**, Blenda AV. *Role of Human Galectins in Inflammation and Cancers Associated with Endometriosis*. Biomolecules. 2020 Feb 4;10(2):230. PMID: PMC7072718. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7072718/>
32. Jasinska AJ, Rostamian D, Davis AT, **Kavanagh K**. *Transcriptomic Analysis of Cell-free Fetal RNA in the Amniotic Fluid of Vervet Monkeys (Chlorocebus sabaeus)*. Comp Med. 2020 Feb 1;70(1):67-74. PMID: PMC7024774. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7024774/>
33. **Karere GM**, Dick EJ Jr, Galindo S Jr, Martinez JC, Martinez JE, Owston M, VandeBerg JL, **Cox LA**. *Histological variation of early stage atherosclerotic lesions in baboons after prolonged challenge with high-cholesterol, high-fat diet*. J Med Primatol. 2020 Feb;49(1):3-9. PMID: PMC7769211. <https://doi.org/10.1111/jmp.12449>
34. Kincaid HJ, Nagpal R, **Yadav H**. *Microbiome-immune-metabolic axis in the epidemic of childhood obesity: Evidence and opportunities*. Obes Rev. 2020 Feb;21(2):e12963. PMID: PMC7771488. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7771488/>

35. Maloney E, Clark C, Sivakumar H, Yoo K, Aleman J, Rajan SAP, Forsythe S, Mazzocchi A, Laxton AW, Tatter SB, **Strowd RE**, Votanopoulos KI, Skardal A. *Immersion Bioprinting of Tumor Organoids in Multi-Well Plates for Increasing Chemotherapy Screening Throughput*. *Micromachines* (Basel). 2020 Feb 18;11(2):208. PMID: PMC7074680. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7074680/>
36. Neth BJ, Mintz A, Whitlow C, Jung Y, Solingapuram Sai K, **Register TC**, Kellar D, Lockhart SN, Hoscheidt S, Maldjian J, Heslegrave AJ, Blennow K, Cunnane SC, Castellano CA, Zetterberg H, Craft S. *Modified ketogenic diet is associated with improved cerebrospinal fluid biomarker profile, cerebral perfusion, and cerebral ketone body uptake in older adults at risk for Alzheimer's disease: a pilot study*. *Neurobiol Aging*. 2020 Feb; 86:54-63. PMID: PMC7266642. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7266642/>
37. Orlando G, Danger R, Okut H, Edgar L, Bussolati B, Gall E, Bergman CR, Tamburrini R, Gazia C, Farney AC, Freedman BI, McPherson G, Rogers J, Stratta RJ, Brouard S, **Walker SJ**. *Molecular Pathways Underlying Adaptive Repair of the Injured Kidney: Novel Donation After Cardiac Death and Acute Kidney Injury Platforms*. *Ann Surg*. 2020 Feb; 271(2):383-390. PMID: 30048305. <https://doi.org/10.1097/sla.0000000000002946>
38. Poole LB, **Furdui CM**, King SB. *Introduction to approaches and tools for the evaluation of protein cysteine oxidation*. *Essays Biochem*. 2020 Feb 17; 64(1):1-17. PMID: PMC7477960. <https://doi.org/10.1042/ebc20190050>
39. Prendergast KM, Smith PM, Tran TB, Postlewait LM, Maithel SK, Prescott JD, Pawlik TM, Wang TS, Glenn J, Hatzaras I, Shenoy R, Phay JE, Shirley LA, Fields RC, Jin LX, Weber SM, Salem A, Sicklick JK, Gad S, Yopp AC, Mansour JC, Duh QY, Seiser N, Votanopoulos KI, **Levine EA**, Poultsides GA, Solórzano CC, Kiernan CM. *Features of synchronous versus metachronous metastasectomy in adrenal cortical carcinoma: Analysis from the US adrenocortical carcinoma database*. *Surgery*. 2020 Feb; 167(2):352-357. PMID: 31272813. <https://doi.org/10.1016/j.surg.2019.05.024>
40. Routh ED, Pullikuth AK, **Jin G**, Chifman J, Chou JW, D'Agostino RB Jr, Seino KI, Wada H, Print CG, **Zhang W**, Lu Y, Miller LD. *Transcriptomic Features of T Cell-Barren Tumors Are Conserved Across Diverse Tumor Types*. *Front Immunol*. 2020 Feb 13; 11:57. PMID: PMC7031496. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7031496/>
41. Skardal A, Aleman J, Forsythe S, Rajan S, Murphy S, Devarasetty M, Pourhabibi Zarandi N, Nzou G, Wicks R, Sadri-Ardekani H, Bishop C, **Soker S**, Hall A, Shupe T, Atala A. *Drug compound screening in single and integrated multi-organoid body-on-a-chip systems*. *Biofabrication*. 2020 Feb 26;12(2):025017. PMID: 32101533. <https://doi.org/10.1088/1758-5090/ab6d36>
42. Tavolara TE, Niazi MKK, Arole V, Chen W, Frankel W, **Gurcan MN**. *Author Correction: A modular cGAN classification framework: Application to colorectal tumor detection*. *Sci Rep*. 2020 Feb 6;10(1):2398. PMID: PMC7002676. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7002676/>
43. **Karere GM**, Dick Jr EJ, Galindo Jr S, Martinez JC, Martinez JE, Owston M, VandeBerg JL, **Cox LA**. *Histological variation of early stage atherosclerotic lesions in baboons after prolonged challenge with high-cholesterol, high-fat diet*. *J. Med Primatol*. 2020 Feb;49(1):3-9. PMID: PMC7769211. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7769211/>
44. Wang S, Ahmadi S, Nagpal R, Jain S, Mishra SP, **Kavanagh K**, **Zhu X**, Wang Z, McClain DA, Kritchevsky SB, Kitzman DW, **Yadav H**. *Lipoteichoic acid from the cell wall of a heat killed Lactobacillus paracasei D3-5 ameliorates aging-related leaky gut, inflammation and improves physical and cognitive functions: from C. elegans to mice*. *Geroscience*. 2020 Feb;42(1):333-352. PMID: PMC7031475. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7031475/>
45. Wang Q, Li M, Yang M, Yang Y, Song F, **Zhang W**, Li X, Chen K. *Analysis of immune-related signatures of lung adenocarcinoma identified two distinct subtypes: implications for immune checkpoint blockade therapy*. *Aging* (Albany NY). 2020 Feb 24; 12(4):3312-3339. PMID: PMC7066911. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7066911/>

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47. Wu T, **Hsu FC**, Wang S, Luong D, Pierce JP. *Hemoglobin A1C levels modify associations between dietary acid load and breast cancer recurrence*. *Nutrients*. 2020 Feb 23;12 (2):578. PMID: PMC7071352. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7071352/>

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49. Bacarella N, Ruggiero A, Davis AT, Uberseder B, Davis MA, Bracy DP, Wasserman DH, **Cline JM**, Sherrill C, **Kavanagh K**. *Whole Body Irradiation Induces Diabetes and Adipose Insulin Resistance in Non-human Primates*. *Int J Radiat Oncol Biol Phys*. 2020 Mar 15;106(4):878-886. PMID: 31805366. <https://doi.org/10.1016/j.ijrobp.2019.11.034>
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52. Dominijanni A, Mazzocchi A, Shelkey E, Forsythe S, Devarsetty M, **Soker S**. *Bioengineered tumor organoids*. *Curr Opin Biomed Eng*. 2020 Mar; 13:168-173. PMID: PMC7236883. <https://doi.org/10.1016/j.cobme.2020.03.005>
53. El-Akabawy N, Rodriguez M, Ramamurthy R, Rabah A, Trevisan B, Morsi A, George S, Shields J, Meares D, Farland A, Atala A, Doering CB, Spencer HT, **Porada CD**, **Almeida-Porada G**. *Defining the Optimal FVIII Transgene for Placental Cell-Based Gene Therapy to Treat Hemophilia A*. *Mol Ther Methods Clin Dev*. 2020 Mar 14;17: 465-477. PMID: PMC7109377. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7109377/>
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57. **Gmeiner WH**, Miller LD, Chou JW, Dominijanni A, Mutkus L, Marini F, Ruiz J, Dotson T, Thomas KW, Parks G, Bellinger CR. *Dysregulated Pyrimidine Biosynthesis Contributes to 5-FU Resistance in SCLC Patient-Derived Organoids but Response to a Novel Polymeric Fluoropyrimidine, CF10*. Cancers (Basel). 2020 Mar 26;12(4):788. PMID: PMC7226016. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7226016/>
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