ITI PUBLICATIONS FEBRUARY 2020

1.[Comprehensive T cell repertoire characterization of non-small cell lung cancer.](https://www.ncbi.nlm.nih.gov/pubmed/32001676)

Reuben A, Zhang J, Chiou SH, Gittelman RM, Li J, Lee WC, Fujimoto J, Behrens C, Liu X, Wang F, Quek K, Wang C, Kheradmand F, Chen R, Chow CW, Lin H, Bernatchez C, Jalali A, Hu X, Wu CJ, Eterovic AK, Parra ER, Yusko E, Emerson R, Benzeno S, Vignali M, Wu X, Ye Y, Little LD, Gumbs C, Mao X, Song X, Tippen S, Thornton RL, Cascone T, Snyder A, Wargo JA, Herbst R, Swisher S, Kadara H, Moran C, Kalhor N, Zhang J, Scheet P, Vaporciyan AA, Sepesi B, Gibbons DL, Robins H, Hwu P, Heymach JV, Sharma P, Allison JP, Baladandayuthapani V, Lee JJ, **Davis MM**, Wistuba II, Futreal PA, Zhang J.

Nat Commun. 2020 Jan 30;11(1):603. doi: 10.1038/s41467-019-14273-0.

PMID:32001676

2.[Gut microbiota plasticity is correlated with sustained weight loss on a low-carb or low-fat dietary intervention.](https://www.ncbi.nlm.nih.gov/pubmed/31996717)

Grembi JA, Nguyen LH, Haggerty TD, Gardner CD, Holmes SP, **Parsonnet J**.

Sci Rep. 2020 Jan 29;10(1):1405. doi: 10.1038/s41598-020-58000-y.

PMID:31996717

3.[Mixed chimerism and acceptance of kidney transplants after immunosuppressive drug withdrawal.](https://www.ncbi.nlm.nih.gov/pubmed/31996467)

**Busque S**, **Scandling JD**, Lowsky R, Shizuru J, Jensen K, Waters J, Wu HH, Sheehan K, Shori A, Choi O, Pham T, Fernandez Vina MA, Hoppe R, Tamaresis J, Lavori P, **Engleman EG**, Meyer E, **Strober S**.

Sci Transl Med. 2020 Jan 29;12(528). pii: eaax8863. doi: 10.1126/scitranslmed.aax8863.

PMID:31996467

4.[Facing the Vexing Problem of Recurrent FSGS after Kidney Transplantation.](https://www.ncbi.nlm.nih.gov/pubmed/31995516)

Lafayette RA.

Clin J Am Soc Nephrol. 2020 Feb 7;15(2):171-173. doi: 10.2215/CJN.14841219. Epub 2020 Jan 23. No abstract available.

PMID:31995516

5.[Impaired Neovascularization in Aging.](https://www.ncbi.nlm.nih.gov/pubmed/31993253)

**Bonham CA**, Kuehlmann B, Gurtner GC.

Adv Wound Care (New Rochelle). 2020 Mar 1;9(3):111-126. doi: 10.1089/wound.2018.0912. Epub 2020 Jan 24. Review.

PMID:31993253

6.[PhenX: Environment measures for Tobacco Regulatory Research.](https://www.ncbi.nlm.nih.gov/pubmed/31992662)

Unger JB, Chaloupka FJ, Vallone D, Thrasher JF, Nettles DS, Hendershot TP, **Swan GE**; PhenX TRR Environment Working Group.

Tob Control. 2020 Jan;29(Suppl 1):s35-s42. doi: 10.1136/tobaccocontrol-2018-054469.

PMID:31992662

7.[PhenX: Vector measures for tobacco regulatory research.](https://www.ncbi.nlm.nih.gov/pubmed/31992661)

Ribisl KM, Chaloupka FJ, Kirchner TR, Henriksen L, Nettles DS, Geisler RC, Hendershot TP, **Swan GE**; PhenX TRR Vector Working Group.

Tob Control. 2020 Jan;29(Suppl 1):s27-s34. doi: 10.1136/tobaccocontrol-2019-054977.

PMID:31992661

8.[PhenX: Agent measures for tobacco regulatory research.](https://www.ncbi.nlm.nih.gov/pubmed/31992660)

O'Connor R, Watson CH, **Swan GE**, Nettles DS, Geisler RC, Hendershot TP; PhenX TRR Agent Working Group.

Tob Control. 2020 Jan;29(Suppl 1):s20-s26. doi: 10.1136/tobaccocontrol-2019-054976.

PMID:31992660

9.[PhenX: Host: Biobehavioral measures for tobacco regulatory research.](https://www.ncbi.nlm.nih.gov/pubmed/31992659)

Giovino GA, **Swan GE**, Blount B, O'Malley S, Brown DC, Hendershot TP; PhenX TRR Host: Biobehavioral Working Group.

Tob Control. 2020 Jan;29(Suppl 1):s13-s19. doi: 10.1136/tobaccocontrol-2019-054975.

PMID:31992659

10.[PhenX: Host: Social/Cognitive measures for tobacco regulatory research.](https://www.ncbi.nlm.nih.gov/pubmed/31992658)

Piper ME, Brown DC, Hendershot TP, **Swan GE**; PhenX TRR Host: Social/Cognitive Working Group.

Tob Control. 2020 Jan;29(Suppl 1):s5-s12. doi: 10.1136/tobaccocontrol-2018-054467.

PMID:31992658

11.[Involvement of Myeloid Cells and Non-Coding RNA in Abdominal Aortic Aneurysm Disease.](https://www.ncbi.nlm.nih.gov/pubmed/31989839)

Knappich C, Spin JM, Eckstein HH, **Tsao PS**, Maegdefessel L.

Antioxid Redox Signal. 2020 Jan 28. doi: 10.1089/ars.2020.8035. [Epub ahead of print]

PMID:31989839

12.[Deep profiling of apoptotic pathways with mass cytometry identifies a synergistic drug combination for killing myeloma cells.](https://www.ncbi.nlm.nih.gov/pubmed/31988495)

Teh CE, Gong JN, Segal D, Tan T, Vandenberg CJ, Fedele PL, Low MSY, Grigoriadis G, Harrison SJ, Strasser A, Roberts AW, Huang DCS, **Nolan GP**, Gray DHD, Ko ME.

Cell Death Differ. 2020 Jan 27. doi: 10.1038/s41418-020-0498-z. [Epub ahead of print]

PMID:31988495

13.[EcAMSat spaceflight measurements of the role of σ](https://www.ncbi.nlm.nih.gov/pubmed/31987476)[s](https://www.ncbi.nlm.nih.gov/pubmed/31987476) [in antibiotic resistance of stationary phase Escherichia coli in microgravity.](https://www.ncbi.nlm.nih.gov/pubmed/31987476)

Padgen MR, Lera MP, Parra MP, Ricco AJ, Chin M, Chinn TN, Cohen A, Friedericks CR, Henschke MB, Snyder TV, Spremo SM, Wang JH, **Matin AC**.

Life Sci Space Res (Amst). 2020 Feb;24:18-24. doi: 10.1016/j.lssr.2019.10.007. Epub 2019 Oct 31.

PMID:31987476

14.[Immunometabolism in the development of rheumatoid arthritis.](https://www.ncbi.nlm.nih.gov/pubmed/31984519)

Weyand CM, Goronzy JJ.

Immunol Rev. 2020 Jan 27. doi: 10.1111/imr.12838. [Epub ahead of print] Review.

PMID:31984519

15.[Breast cancer induces systemic immune changes on cytokine signaling in peripheral blood monocytes and lymphocytes.](https://www.ncbi.nlm.nih.gov/pubmed/31981982)

Wang L, Simons DL, Lu X, Tu TY, Avalos C, Chang AY, Dirbas FM, Yim JH, Waisman J, **Lee PP**.

EBioMedicine. 2020 Jan 22;52:102631. doi: 10.1016/j.ebiom.2020.102631. [Epub ahead of print]

PMID:31981982

16.[Enabling Technologies for Personalized and Precision Medicine.](https://www.ncbi.nlm.nih.gov/pubmed/31980301)

Ho D, **Quake SR**, McCabe ERB, Chng WJ, Chow EK, Ding X, Gelb BD, Ginsburg GS, Hassenstab J, Ho CM, Mobley WC, **Nolan GP**, Rosen ST, Tan P, Yen Y, Zarrinpar A.

Trends Biotechnol. 2020 Jan 21. pii: S0167-7799(19)30316-6. doi: 10.1016/j.tibtech.2019.12.021. [Epub ahead of print] Review.

PMID:31980301

17.[The Antimalarial Natural Product Salinipostin A Identifies Essential α/β Serine Hydrolases Involved in Lipid Metabolism in P. falciparum Parasites.](https://www.ncbi.nlm.nih.gov/pubmed/31978322)

Yoo E, Schulze CJ, Stokes BH, Onguka O, Yeo T, Mok S, Gnädig NF, Zhou Y, Kurita K, Foe IT, Terrell SM, Boucher MJ, Cieplak P, Kumpornsin K, Lee MCS, Linington RG, Long JZ, Uhlemann AC, Weerapana E, Fidock DA, **Bogyo M**.

Cell Chem Biol. 2020 Jan 21. pii: S2451-9456(20)30001-5. doi: 10.1016/j.chembiol.2020.01.001. [Epub ahead of print]

PMID:31978322

18.[PI4KIIIβ is a therapeutic target in chromosome 1q-amplified lung adenocarcinoma.](https://www.ncbi.nlm.nih.gov/pubmed/31969487)

Tan X, Banerjee P, Pham EA, Rutaganira FUN, Basu K, Bota-Rabassedas N, Guo HF, Grzeskowiak CL, Liu X, Yu J, Shi L, Peng DH, Rodriguez BL, Zhang J, Zheng V, Duose DY, Solis LM, Mino B, Raso MG, Behrens C, Wistuba II, Scott KL, Smith M, Nguyen K, Lam G, Choong I, Mazumdar A, Hill JL, Gibbons DL, Brown PH, Russell WK, Shokat K, Creighton CJ, **Glenn JS**, Kurie JM.

Sci Transl Med. 2020 Jan 22;12(527). pii: eaax3772. doi: 10.1126/scitranslmed.aax3772.

PMID:31969487

19.[The MEK5-ERK5 kinase axis controls lipid metabolism in small cell lung cancer.](https://www.ncbi.nlm.nih.gov/pubmed/31969375)

Cristea S, Coles GL, Hornburg D, Gershkovitz M, Arand J, Cao S, Sen T, Williamson SC, Kim JW, Drainas AP, He A, Le Cam L, Byers LA, **Snyder MP**, Contrepois K, Sage J.

Cancer Res. 2020 Jan 22. pii: canres.1027.2019. doi: 10.1158/0008-5472.CAN-19-1027. [Epub ahead of print]

PMID:31969375

20.[Memory B Cell Activation, Broad Anti-influenza Antibodies, and Bystander Activation Revealed by Single-Cell Transcriptomics.](https://www.ncbi.nlm.nih.gov/pubmed/31968262)

Horns F, **Dekker CL**, **Quake SR**.

Cell Rep. 2020 Jan 21;30(3):905-913.e6. doi: 10.1016/j.celrep.2019.12.063.

PMID:31968262

21.[Non-invasive characterization of human bone marrow stimulation and reconstitution by cell-free messenger RNA sequencing.](https://www.ncbi.nlm.nih.gov/pubmed/31964864)

Ibarra A, Zhuang J, Zhao Y, Salathia NS, Huang V, Acosta AD, Aballi J, Toden S, Karns AP, Purnajo I, Parks JR, Guo L, Mason J, Sigal D, Nova TS, **Quake SR**, Nerenberg M.

Nat Commun. 2020 Jan 21;11(1):400. doi: 10.1038/s41467-019-14253-4.

PMID:31964864

22.[Safety results of ixekizumab with 1822.2 patient-years of exposure: an integrated analysis of 3 clinical trials in adult patients with psoriatic arthritis.](https://www.ncbi.nlm.nih.gov/pubmed/31964419)

Combe B, Rahman P, Kameda H, Cañete JD, Gallo G, Agada N, Xu W, Genovese MC.

Arthritis Res Ther. 2020 Jan 21;22(1):14. doi: 10.1186/s13075-020-2099-0.

PMID:31964419

23.[Mucus plugging, air trapping, and bronchiectasis are important outcome measures in assessing progressive childhood cystic fibrosis lung disease.](https://www.ncbi.nlm.nih.gov/pubmed/31962004)

Robinson TE, Goris ML, **Moss RB**, Tian L, Kan P, Yilma M, McCoy KS, Newman B, de Jong PA, Long FR, Brody AS, Behrje R, Yates DP, Cornfield DN.

Pediatr Pulmonol. 2020 Jan 21. doi: 10.1002/ppul.24646. [Epub ahead of print]

PMID:31962004

24.[Elevated anti-citrullinated protein antibodies prior to rheumatoid arthritis diagnosis and risks for chronic obstructive pulmonary disease or asthma.](https://www.ncbi.nlm.nih.gov/pubmed/31961487)

Zaccardelli A, Liu X, Ford JA, Cui J, Lu B, Chu SH, Schur PH, Speyer CB, Costenbader KH, **Robinson WH**, Sokolove J, Karlson EW, Camargo CA Jr, Sparks JA.

Arthritis Care Res (Hoboken). 2020 Jan 21. doi: 10.1002/acr.24140. [Epub ahead of print]

PMID:31961487

25.[Aberrant B cell repertoire selection associated with HIV neutralizing antibody breadth.](https://www.ncbi.nlm.nih.gov/pubmed/31959979)

Roskin KM, Jackson KJL, Lee JY, Hoh RA, Joshi SA, Hwang KK, Bonsignori M, Pedroza-Pacheco I, Liao HX, Moody MA, **Fire AZ**, Borrow P, Haynes BF, **Boyd SD**.

Nat Immunol. 2020 Feb;21(2):199-209. doi: 10.1038/s41590-019-0581-0. Epub 2020 Jan 20.

PMID:31959979

26.[Klebsiella michiganensis transmission enhances resistance to Enterobacteriaceae gut invasion by nutrition competition.](https://www.ncbi.nlm.nih.gov/pubmed/31959968)

Oliveira RA, Ng KM, Correia MB, Cabral V, Shi H, **Sonnenburg JL**, Huang KC, Xavier KB.

Nat Microbiol. 2020 Jan 20. doi: 10.1038/s41564-019-0658-4. [Epub ahead of print]

PMID:31959968

27.[Lipid-droplet-accumulating microglia represent a dysfunctional and proinflammatory state in the aging brain.](https://www.ncbi.nlm.nih.gov/pubmed/31959936)

Marschallinger J, Iram T, Zardeneta M, Lee SE, Lehallier B, Haney MS, Pluvinage JV, Mathur V, Hahn O, Morgens DW, Kim J, Tevini J, Felder TK, Wolinski H, Bertozzi CR, Bassik MC, Aigner L, **Wyss-Coray T**.

Nat Neurosci. 2020 Feb;23(2):194-208. doi: 10.1038/s41593-019-0566-1. Epub 2020 Jan 20. Erratum in: [Nat Neurosci. 2020 Jan 31;:](https://www.ncbi.nlm.nih.gov/pubmed/32005940).

PMID:31959936

28.[Distinctive phenotypes and functions of innate lymphoid cells in human decidua during early pregnancy.](https://www.ncbi.nlm.nih.gov/pubmed/31959757)

Huhn O, Ivarsson MA, Gardner L, Hollinshead M, Stinchcombe JC, Chen P, Shreeve N, Chazara O, Farrell LE, Theorell J, Ghadially H, **Parham P**, Griffiths G, Horowitz A, Moffett A, Sharkey AM, Colucci F.

Nat Commun. 2020 Jan 20;11(1):381. doi: 10.1038/s41467-019-14123-z.

PMID:31959757

29.[Pooled analysis of TNF inhibitor biosimilar studies comparing radiographic progression by disease activity states in rheumatoid arthritis.](https://www.ncbi.nlm.nih.gov/pubmed/31958281)

Smolen JS, Choe JY, Weinblatt ME, Emery P, Keystone E, Genovese MC, Myung G, Hong E, Baek I, Ghil J.

RMD Open. 2020 Jan;6(1). pii: e001096. doi: 10.1136/rmdopen-2019-001096.

PMID:31958281

30.[Cell-Surface Proteomic Profiling in the Fly Brain Uncovers Wiring Regulators.](https://www.ncbi.nlm.nih.gov/pubmed/31955847)

Li J, Han S, Li H, Udeshi ND, Svinkina T, Mani DR, Xu C, Guajardo R, Xie Q, Li T, Luginbuhl DJ, Wu B, McLaughlin CN, Xie A, Kaewsapsak P, **Quake SR**, Carr SA, Ting AY, Luo L.

Cell. 2020 Jan 23;180(2):373-386.e15. doi: 10.1016/j.cell.2019.12.029. Epub 2020 Jan 16.

PMID:31955847

31.[Disseminated Pneumocystis jirovecii Infection with Osteomyelitis in a Patient with CTLA-4 Haploinsufficiency.](https://www.ncbi.nlm.nih.gov/pubmed/31955317)

Siddiqi AE, Liu AY, Charville GW, Kunder CA, Uzel G, Sadighi Akha AA, Oak J, Martin B, Sacha J, **Lewis DB**, Gernez Y.

J Clin Immunol. 2020 Jan 18. doi: 10.1007/s10875-020-00748-z. [Epub ahead of print] No abstract available.

PMID:31955317

32.[Identification of the first cases of complete CD16A deficiency: Association with persistent EBV infection.](https://www.ncbi.nlm.nih.gov/pubmed/31953104)

Pérez-Portilla A, Moraru M, Blázquez-Moreno A, Kolb P, Bravo García-Morato M, Ranganath T, Esteso G, Gianelli C, Rodríguez-Pena R, Lozano-Rodríguez R, Torres-Canizales JM, Blish CA, Vales-Gomez M, Hengel H, Vilches C, López-Granados E, Reyburn HT.

J Allergy Clin Immunol. 2020 Jan 15. pii: S0091-6749(20)30033-6. doi: 10.1016/j.jaci.2019.11.049. [Epub ahead of print] No abstract available.

PMID:31953104

33.[Structure of the neurotensin receptor 1 in complex with β-arrestin 1.](https://www.ncbi.nlm.nih.gov/pubmed/31945771)

Huang W, Masureel M, Qianhui Q, Janetzko J, Inoue A, Kato HE, Robertson MJ, Nguyen KC, **Glenn JS**, Skiniotis G, Kobilka BK.

Nature. 2020 Jan 16. doi: 10.1038/s41586-020-1953-1. [Epub ahead of print]

PMID:31945771

34.[Recent advances in liver transplantation with HCV seropositive donors.](https://www.ncbi.nlm.nih.gov/pubmed/31942236)

Murag S, Dennis BB, Kim D, **Ahmed A**, Cholankeril G.

F1000Res. 2019 Dec 30;8. pii: F1000 Faculty Rev-2151. doi: 10.12688/f1000research.20387.1. eCollection 2019. Review.

PMID:31942236

35.[Congenital Toxoplasmosis Presenting as Eosinophilic Encephalomyelitis With Spinal Cord Hemorrhage.](https://www.ncbi.nlm.nih.gov/pubmed/31941759)

Vera CN, Linam WM, Gadde JA, Wolf DS, Walson K, **Montoya JG**, Rostad CA.

Pediatrics. 2020 Feb;145(2). pii: e20191425. doi: 10.1542/peds.2019-1425. Epub 2020 Jan 15.

PMID:31941759

36.[Extracellular Vesicle-Mediated](https://www.ncbi.nlm.nih.gov/pubmed/31941722) *[In Vitro](https://www.ncbi.nlm.nih.gov/pubmed/31941722)* [Transcribed mRNA Delivery for Treatment of HER2](https://www.ncbi.nlm.nih.gov/pubmed/31941722)[+](https://www.ncbi.nlm.nih.gov/pubmed/31941722) [Breast Cancer Xenografts in Mice by Prodrug CB1954 without General Toxicity.](https://www.ncbi.nlm.nih.gov/pubmed/31941722)

Forterre AV, Wang JH, Delcayre A, Kim K, Green C, Pegram MD, Jeffrey SS, **Matin AC**.

Mol Cancer Ther. 2020 Jan 15. doi: 10.1158/1535-7163.MCT-19-0928. [Epub ahead of print]

PMID:31941722

37.[Risks and Challenges of Arboviral Diseases in Sudan: The Urgent Need for Actions.](https://www.ncbi.nlm.nih.gov/pubmed/31936607)

**Ahmed A**, Dietrich I, LaBeaud AD, Lindsay SW, Musa A, Weaver SC.

Viruses. 2020 Jan 9;12(1). pii: E81. doi: 10.3390/v12010081. Review.

PMID:31936607

38.[High-Parametric Evaluation of Human Invariant Natural Killer T Cells to Delineate Heterogeneity in Allo- and Autoimmunity.](https://www.ncbi.nlm.nih.gov/pubmed/31935280)

Erkers T, Xie B, Kenyon LJ, Smith B, Rieck M, Jensen KP, Ji X, Basina M, **Strober S**, Negrin RS, Maecker HT, Meyer E.

Blood. 2020 Jan 14. pii: blood.2019001903. doi: 10.1182/blood.2019001903. [Epub ahead of print]

PMID:31935280

39.[FLOW-MAP: a graph-based, force-directed layout algorithm for trajectory mapping in single-cell time course datasets.](https://www.ncbi.nlm.nih.gov/pubmed/31932774)

Ko ME, Williams CM, Fread KI, Goggin SM, Rustagi RS, Fragiadakis GK, **Nolan GP**, Zunder ER.

Nat Protoc. 2020 Feb;15(2):398-420. doi: 10.1038/s41596-019-0246-3. Epub 2020 Jan 13.

PMID:31932774

40.[Vaccination Policies and Disease Incidence Across the Pond: Implications for the United States.](https://www.ncbi.nlm.nih.gov/pubmed/31932360)

O'Leary ST, **Maldonado YA**.

Pediatrics. 2020 Feb;145(2). pii: e20192436. doi: 10.1542/peds.2019-2436. Epub 2020 Jan 13. No abstract available.

PMID:31932360

41.[Th2A and Th17 cell frequencies and regulatory markers as follow-up biomarker candidates for successful multifood oral immunotherapy.](https://www.ncbi.nlm.nih.gov/pubmed/31930521)

Luce S, Chinthrajah S, Lyu SC, **Nadeau KC**, Mascarell L.

Allergy. 2020 Jan 12. doi: 10.1111/all.14180. [Epub ahead of print] No abstract available.

PMID:31930521

42.[Total Microfluidic chip for Multiplexed diagnostics (ToMMx).](https://www.ncbi.nlm.nih.gov/pubmed/31929083)

Ozen MO, Sridhar K, Ogut MG, Shanmugam A, Avadhani AS, Kobayashi Y, **Wu JC**, Haddad F, Demirci U.

Biosens Bioelectron. 2020 Feb 15;150:111930. doi: 10.1016/j.bios.2019.111930. Epub 2019 Nov 28.

PMID:31929083

43.[Summary of the Keystone Symposium "Origins of allergic disease: Microbial, epithelial and immune interactions," March 24-27, Tahoe City, California.](https://www.ncbi.nlm.nih.gov/pubmed/31926182)

DeKruyff RH, Zhang W, **Nadeau KC**, Leung DYM, Wills-Karp M.

J Allergy Clin Immunol. 2020 Jan 8. pii: S0091-6749(20)30001-4. doi: 10.1016/j.jaci.2019.11.048. [Epub ahead of print]

PMID:31926182

44.[An Open-Label Pilot Study of Adrenocorticotrophic Hormone in the Treatment of IgA Nephropathy at High Risk of Progression.](https://www.ncbi.nlm.nih.gov/pubmed/31922061)

Zand L, Canetta P, **Lafayette R**, Aslam N, Jan N, Sethi S, Fervenza FC.

Kidney Int Rep. 2019 Oct 31;5(1):58-65. doi: 10.1016/j.ekir.2019.10.007. eCollection 2020 Jan.

PMID:31922061

45.[Profiling myelodysplastic syndromes by mass cytometry demonstrates abnormal progenitor cell phenotype and differentiation.](https://www.ncbi.nlm.nih.gov/pubmed/31917512)

Behbehani GK, Finck R, Samusik N, Sridhar K, Fantl WJ, Greenberg PL, **Nolan GP**.

Cytometry B Clin Cytom. 2020 Jan 9. doi: 10.1002/cyto.b.21860. [Epub ahead of print]

PMID:31917512

46.[Pathogenesis of Insulin Resistance and Atherogenic Dyslipidemia in Nonalcoholic Fatty Liver Disease.](https://www.ncbi.nlm.nih.gov/pubmed/31915606)

Akhtar DH, Iqbal U, Vazquez-Montesino LM, Dennis BB, **Ahmed A**.

J Clin Transl Hepatol. 2019 Dec 28;7(4):362-370. doi: 10.14218/JCTH.2019.00028. Epub 2019 Nov 29. Review.

PMID:31915606

47.[Clonally expanded CD8 T cells patrol the cerebrospinal fluid in Alzheimer's disease.](https://www.ncbi.nlm.nih.gov/pubmed/31915375)

Gate D, Saligrama N, Leventhal O, Yang AC, Unger MS, Middeldorp J, Chen K, Lehallier B, Channappa D, De Los Santos MB, McBride A, Pluvinage J, Elahi F, Tam GK, Kim Y, Greicius M, Wagner AD, Aigner L, Galasko DR, **Davis MM**, **Wyss-Coray T**.

Nature. 2020 Jan;577(7790):399-404. doi: 10.1038/s41586-019-1895-7. Epub 2020 Jan 8.

PMID:31915375

48.[Training and evaluating simulation debriefers in low-resource settings: lessons learned from Bihar, India.](https://www.ncbi.nlm.nih.gov/pubmed/31914989)

Raney JH, Medvedev MM, Cohen SR, Spindler H, Ghosh R, Christmas A, **Das A**, Gore A, Mahapatra T, Walker D.

BMC Med Educ. 2020 Jan 8;20(1):9. doi: 10.1186/s12909-019-1906-2.

PMID:31914989

49.[Systemic factors as mediators of brain homeostasis, ageing and neurodegeneration.](https://www.ncbi.nlm.nih.gov/pubmed/31913356)

Pluvinage JV, **Wyss-Coray T**.

Nat Rev Neurosci. 2020 Feb;21(2):93-102. doi: 10.1038/s41583-019-0255-9. Epub 2020 Jan 8. Review.

PMID:31913356

50.[Author Correction: In vivo clonal expansion and phenotypes of hypocretin-specific CD4](https://www.ncbi.nlm.nih.gov/pubmed/31913263)[+](https://www.ncbi.nlm.nih.gov/pubmed/31913263) [T cells in narcolepsy patients and controls.](https://www.ncbi.nlm.nih.gov/pubmed/31913263)

Jiang W, Birtley JR, Hung SC, Wang W, Chiou SH, Macaubas C, Kornum B, Tian L, Huang H, Adler L, Weaver G, Lu L, Ilstad-Minnihan A, Somasundaram S, Ayyangar S, **Davis MM**, Stern LJ, **Mellins ED**.

Nat Commun. 2020 Jan 8;11(1):242. doi: 10.1038/s41467-019-13776-0.

PMID:31913263

51.[The energy landscape of -1 ribosomal frameshifting.](https://www.ncbi.nlm.nih.gov/pubmed/31911945)

Choi J, O'Loughlin S, Atkins JF, Puglisi JD.

Sci Adv. 2020 Jan 1;6(1):eaax6969. doi: 10.1126/sciadv.aax6969. eCollection 2020 Jan.

PMID:31911945

52.[Microparticle traction force microscopy reveals subcellular force exertion patterns in immune cell-target interactions.](https://www.ncbi.nlm.nih.gov/pubmed/31911639)

Vorselen D, Wang Y, de Jesus MM, Shah PK, Footer MJ, Huse M, Cai W, **Theriot JA**.

Nat Commun. 2020 Jan 7;11(1):20. doi: 10.1038/s41467-019-13804-z.

PMID:31911639

53.[Diet quality and its association with nonalcoholic fatty liver disease and all-cause and cause-specific mortality.](https://www.ncbi.nlm.nih.gov/pubmed/31910319)

Yoo ER, Kim D, Vazquez-Montesino LM, Escober JA, Li AA, Tighe SP, Fernandes CT, Cholankeril G, **Ahmed A**.

Liver Int. 2020 Jan 7. doi: 10.1111/liv.14374. [Epub ahead of print]

PMID:31910319

54.[Decreasing human body temperature in the United States since the industrial revolution.](https://www.ncbi.nlm.nih.gov/pubmed/31908267)

Protsiv M, Ley C, Lankester J, Hastie T, **Parsonnet J**.

Elife. 2020 Jan 7;9. pii: e49555. doi: 10.7554/eLife.49555.

PMID:31908267

55.[Early Aspergillosis in Cystic Fibrosis and Air Trapping: Guilt by Association?](https://www.ncbi.nlm.nih.gov/pubmed/31904998)

Nichols DP, **Moss RB**.

Am J Respir Crit Care Med. 2020 Jan 6. doi: 10.1164/rccm.201912-2309ED. [Epub ahead of print] No abstract available.

PMID:31904998

56.[Ureterostomy as an alternative to ileal conduits in pediatric kidney transplantation.](https://www.ncbi.nlm.nih.gov/pubmed/31904131)

Brubaker AL, Wu HY, Lee A, Vuong P, Stoltz DJ, Chaudhuri A, James G, Grimm PC, **Concepcion W**, Gallo AE.

Clin Transplant. 2020 Feb;34(2):e13777. doi: 10.1111/ctr.13777. Epub 2020 Jan 29.

PMID:31904131

57.[The Immune Response to Chronic](https://www.ncbi.nlm.nih.gov/pubmed/31903297) *[Pseudomonas aeruginosa](https://www.ncbi.nlm.nih.gov/pubmed/31903297)* [Wound Infection in Immunocompetent Mice.](https://www.ncbi.nlm.nih.gov/pubmed/31903297)

Sweere JM, Ishak H, Sunkari V, Bach MS, Manasherob R, Yadava K, Ruppert SM, Sen CK, Balaji S, Keswani SG, Secor PR, Bollyky PL.

Adv Wound Care (New Rochelle). 2020 Feb 1;9(2):35-47. doi: 10.1089/wound.2019.1039. Epub 2019 Dec 18.

PMID:31903297

58.[Chronic inflammation in the etiology of disease across the life span.](https://www.ncbi.nlm.nih.gov/pubmed/31806905)

Furman D, Campisi J, Verdin E, Carrera-Bastos P, Targ S, Franceschi C, Ferrucci L, Gilroy DW, Fasano A, Miller GW, Miller AH, Mantovani A, Weyand CM, Barzilai N, Goronzy JJ, Rando TA, Effros RB, Lucia A, Kleinstreuer N, Slavich GM.

Nat Med. 2019 Dec;25(12):1822-1832. doi: 10.1038/s41591-019-0675-0. Epub 2019 Dec 5. Review.

PMID:31806905

59.[Undulating changes in human plasma proteome profiles across the lifespan.](https://www.ncbi.nlm.nih.gov/pubmed/31806903)

Lehallier B, Gate D, Schaum N, Nanasi T, Lee SE, Yousef H, Moran Losada P, Berdnik D, Keller A, Verghese J, Sathyan S, Franceschi C, Milman S, Barzilai N, **Wyss-Coray T**.

Nat Med. 2019 Dec;25(12):1843-1850. doi: 10.1038/s41591-019-0673-2. Epub 2019 Dec 5.

PMID:31806903

60.[Genome-wide association analysis of venous thromboembolism identifies new risk loci and genetic overlap with arterial vascular disease.](https://www.ncbi.nlm.nih.gov/pubmed/31676865)

Klarin D, Busenkell E, Judy R, Lynch J, Levin M, Haessler J, Aragam K, Chaffin M, Haas M, Lindström S, Assimes TL, Huang J, Min Lee K, Shao Q, Huffman JE, Kabrhel C, Huang Y, Sun YV, Vujkovic M, Saleheen D, Miller DR, Reaven P, DuVall S, Boden WE, Pyarajan S, Reiner AP, Trégouët DA, Henke P, Kooperberg C, Gaziano JM, Concato J, Rader DJ, Cho K, Chang KM, Wilson PWF, Smith NL, O'Donnell CJ, **Tsao PS**, Kathiresan S, Obi A, Damrauer SM, Natarajan P; INVENT Consortium; Veterans Affairs’ Million Veteran Program.

Nat Genet. 2019 Nov;51(11):1574-1579. doi: 10.1038/s41588-019-0519-3. Epub 2019 Nov 1.

PMID:31676865

61.[Predicting HLA class II antigen presentation through integrated deep learning.](https://www.ncbi.nlm.nih.gov/pubmed/31611695)

Chen B, Khodadoust MS, Olsson N, Wagar LE, Fast E, Liu CL, Muftuoglu Y, Sworder BJ, Diehn M, **Levy R**, **Davis MM**, Elias JE, Altman RB, Alizadeh AA.

Nat Biotechnol. 2019 Nov;37(11):1332-1343. doi: 10.1038/s41587-019-0280-2. Epub 2019 Oct 14.

PMID:31611695

62.[Genome-wide effects of social status on DNA methylation in the brain of a cichlid fish, Astatotilapia burtoni.](https://www.ncbi.nlm.nih.gov/pubmed/31506062)

Hilliard AT, Xie D, Ma Z, **Snyder MP**, Fernald RD.

BMC Genomics. 2019 Sep 11;20(1):699. doi: 10.1186/s12864-019-6047-9.

PMID:31506062

63.[Treatment of inoperable hepatocellular carcinoma with immunotherapy.](https://www.ncbi.nlm.nih.gov/pubmed/31352386)

Tighe SP, Iqbal U, Fernandes CT, **Ahmed A**.

BMJ Case Rep. 2019 Jul 27;12(7). pii: e229744. doi: 10.1136/bcr-2019-229744.

PMID:31352386

64.[Neurodevelopmental Outcomes of Preterm Infants With Retinopathy of Prematurity by Treatment.](https://www.ncbi.nlm.nih.gov/pubmed/31337693)

Natarajan G, Shankaran S, Nolen TL, Sridhar A, Kennedy KA, Hintz SR, Phelps DL, DeMauro SB, Carlo WA, Gantz MG, **Das A**, Greenberg RG, Younge NE, Bliss JM, Seabrook R, Sánchez PJ, Wyckoff MH, Bell EF, Vohr BR, Higgins RD.

Pediatrics. 2019 Aug;144(2). pii: e20183537. doi: 10.1542/peds.2018-3537. Epub 2019 Jul 23.

PMID:31337693

65.[Developmental subtypes assessed by DNA methylation-iPLEX forecast the natural history of chronic lymphocytic leukemia.](https://www.ncbi.nlm.nih.gov/pubmed/31292113)

Giacopelli B, Zhao Q, Ruppert AS, Agyeman A, Weigel C, Wu YZ, Gerber MM, Rabe KG, Larson MC, Lu J, Blachly JS, Rogers KA, Wierda WG, Brown JR, Rai KR, Keating M, Rassenti LZ, Kipps TJ, Zenz T, Shanafelt TD, Kay NE, Abruzzo LV, Coombes KR, Woyach JA, Byrd JC, Oakes CC.

Blood. 2019 Aug 22;134(8):688-698. doi: 10.1182/blood.2019000490. Epub 2019 Jul 10.

PMID:31292113

66.[HAT1 Coordinates Histone Production and Acetylation via H4 Promoter Binding.](https://www.ncbi.nlm.nih.gov/pubmed/31278053)

Gruber JJ, Geller B, Lipchik AM, Chen J, Salahudeen AA, Ram AN, Ford JM, Kuo CJ, **Snyder MP**.

Mol Cell. 2019 Aug 22;75(4):711-724.e5. doi: 10.1016/j.molcel.2019.05.034. Epub 2019 Jul 2.

PMID:31278053

67.[Using association rule mining and ontologies to generate metadata recommendations from multiple biomedical databases.](https://www.ncbi.nlm.nih.gov/pubmed/31210270)

Martínez-Romero M, O'Connor MJ, Egyedi AL, Willrett D, Hardi J, Graybeal J, **Musen MA**.

Database (Oxford). 2019 Jan 1;2019. pii: baz059. doi: 10.1093/database/baz059.

PMID:31210270

68.[Cut it out! Thoracic surgeon's approach to pulmonary mucormycosis and the role of surgical resection in survival.](https://www.ncbi.nlm.nih.gov/pubmed/31173415)

Multani A, Reveron-Thornton R, Garvert DW, Gomez CA, **Montoya JG**, Lui NS.

Mycoses. 2019 Oct;62(10):893-907. doi: 10.1111/myc.12954. Epub 2019 Aug 6.

PMID:31173415

69.[Pulse-Chase Analysis for Studies of MHC Class II Biosynthesis, Maturation, and Peptide Loading.](https://www.ncbi.nlm.nih.gov/pubmed/31147950)

Hou T, Rinderknecht C, Ghosh D, Hadjinicolaou AV, Busch R, **Mellins ED**.

Methods Mol Biol. 2019;1988:315-341. doi: 10.1007/978-1-4939-9450-2\_23.

PMID:31147950

70.[The West coast regional safety pharmacology society meeting update: Filling translational gaps in safety assessment.](https://www.ncbi.nlm.nih.gov/pubmed/31077805)

Abi-Gerges N, McMahon C, Vargas H, Sager P, Chui R, Stevens D, Davila J, Schaub JR, **Wu JC**, Del Rio C, Mathes C, Miller PE, Burns-Naas LA, Ghetti A.

J Pharmacol Toxicol Methods. 2019 Jul - Aug;98:106582. doi: 10.1016/j.vascn.2019.106582. Epub 2019 May 9. Review.

PMID:31077805

71.[Intermicrobial interaction: Aspergillus fumigatus siderophores protect against competition by Pseudomonas aeruginosa.](https://www.ncbi.nlm.nih.gov/pubmed/31067259)

Sass G, Ansari SR, Dietl AM, Déziel E, Haas H, **Stevens DA**.

PLoS One. 2019 May 8;14(5):e0216085. doi: 10.1371/journal.pone.0216085. eCollection 2019.

PMID:31067259

72.[Inducible expression of immediate early genes is regulated through dynamic chromatin association by NF45/ILF2 and NF90/NF110/ILF3.](https://www.ncbi.nlm.nih.gov/pubmed/31022259)

Wu TH, Shi L, Lowe AW, **Nicolls MR**, Kao PN.

PLoS One. 2019 Apr 25;14(4):e0216042. doi: 10.1371/journal.pone.0216042. eCollection 2019.

PMID:31022259

73.[Efficient Front-Rear Coupling in Neutrophil Chemotaxis by Dynamic Myosin II Localization.](https://www.ncbi.nlm.nih.gov/pubmed/31014479)

Tsai TY, Collins SR, Chan CK, Hadjitheodorou A, Lam PY, Lou SS, Yang HW, Jorgensen J, Ellett F, Irimia D, Davidson MW, Fischer RS, Huttenlocher A, Meyer T, Ferrell JE Jr, **Theriot JA**.

Dev Cell. 2019 Apr 22;49(2):189-205.e6. doi: 10.1016/j.devcel.2019.03.025.

PMID:31014479

74.[LIMPRINT: Elucidating the Global Problem of Lymphedema.](https://www.ncbi.nlm.nih.gov/pubmed/30995188)

**Rockson SG**.

Lymphat Res Biol. 2019 Apr;17(2):119-120. doi: 10.1089/lrb.2019.29062.sr. No abstract available.

PMID:30995188

75.[Two to Tango: Co-evolution of Hominid Natural Killer Cell Receptors and MHC.](https://www.ncbi.nlm.nih.gov/pubmed/30837985)

Wroblewski EE, **Parham P**, Guethlein LA.

Front Immunol. 2019 Feb 19;10:177. doi: 10.3389/fimmu.2019.00177. eCollection 2019. Review.

PMID:30837985

76.[Histologic and Transcriptional Evidence of Subclinical Synovial Inflammation in Patients With Rheumatoid Arthritis in Clinical Remission.](https://www.ncbi.nlm.nih.gov/pubmed/30835943)

Orange DE, Agius P, DiCarlo EF, Mirza SZ, Pannellini T, Szymonifka J, Jiang CS, Figgie MP, Frank MO, **Robinson WH**, Donlin LT, Rozo C, Gravallese EM, Bykerk VP, Goodman SM.

Arthritis Rheumatol. 2019 Jul;71(7):1034-1041. doi: 10.1002/art.40878. Epub 2019 Jun 5.

PMID:30835943

77.[A Multi-Institution Collaboration to Define Core Content and Design Flexible Curricular Components for a Foundational Medical School Course: Implications for National Curriculum Reform.](https://www.ncbi.nlm.nih.gov/pubmed/30801270)

Chen SF, Deitz J, Batten JN, DeCoste-Lopez J, Adam M, Alspaugh JA, **Amieva MR**, Becker P, Boslett B, Carline J, Chin-Hong P, Engle DL, Hayward KN, Nevins A, Porwal A, Pottinger PS, Schwartz BS, Smith S, Sow M, Teherani A, Prober CG.

Acad Med. 2019 Jun;94(6):819-825. doi: 10.1097/ACM.0000000000002663.

PMID:30801270

78.[Outcomes with ibrutinib by line of therapy and post-ibrutinib discontinuation in patients with chronic lymphocytic leukemia: Phase 3 analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30767298)

O'Brien SM, Byrd JC, Hillmen P, Coutre S, Brown JR, Barr PM, Barrientos JC, Devereux S, Robak T, Reddy NM, Kipps TJ, Tedeschi A, Cymbalista F, Ghia P, Chang S, Ninomoto J, James DF, Burger JA.

Am J Hematol. 2019 May;94(5):554-562. doi: 10.1002/ajh.25436. Epub 2019 Mar 8.

PMID:30767298

79.[Structural features of STIM and Orai underlying store-operated calcium entry.](https://www.ncbi.nlm.nih.gov/pubmed/30716649)

Qiu R, **Lewis RS**.

Curr Opin Cell Biol. 2019 Apr;57:90-98. doi: 10.1016/j.ceb.2018.12.012. Epub 2019 Feb 1. Review.

PMID:30716649

80.[Predicting Pathology From Imaging in Children Undergoing Resection of Congenital Lung Lesions.](https://www.ncbi.nlm.nih.gov/pubmed/30694781)

Narayan RR, Abadilla N, Greenberg DR, **Sylvester KG**, Hintz SR, Barth RA, Bruzoni M.

J Surg Res. 2019 Apr;236:68-73. doi: 10.1016/j.jss.2018.10.042. Epub 2018 Dec 7.

PMID:30694781

81.[Loss of Endothelium-Derived Wnt5a Is Associated With Reduced Pericyte Recruitment and Small Vessel Loss in Pulmonary Arterial Hypertension.](https://www.ncbi.nlm.nih.gov/pubmed/30586764)

Yuan K, Shamskhou EA, Orcholski ME, Nathan A, Reddy S, Honda H, Mani V, Zeng Y, Ozen MO, Wang L, Demirci U, Tian W, **Nicolls MR**, de Jesus Perez VA.

Circulation. 2019 Apr 2;139(14):1710-1724. doi: 10.1161/CIRCULATIONAHA.118.037642.

PMID:30586764

82.[Covalent Modifiers of Botulinum Neurotoxin Counteract Toxin Persistence.](https://www.ncbi.nlm.nih.gov/pubmed/30571080)

Garland M, Babin BM, Miyashita SI, Loscher S, Shen Y, Dong M, **Bogyo M**.

ACS Chem Biol. 2019 Jan 18;14(1):76-87. doi: 10.1021/acschembio.8b00937. Epub 2019 Jan 8.

PMID:30571080

83.[Diminished B-Cell Response After Repeat Influenza Vaccination.](https://www.ncbi.nlm.nih.gov/pubmed/30496437)

Sanyal M, Holmes TH, Maecker HT, Albrecht RA, **Dekker CL**, He XS, **Greenberg HB**.

J Infect Dis. 2019 Apr 19;219(10):1586-1595. doi: 10.1093/infdis/jiy685. Erratum in: [J Infect Dis. 2019 Apr 19;219(10):1683](https://www.ncbi.nlm.nih.gov/pubmed/30951599).

PMID:30496437

84.[Natural killer cells as modulators of alloimmune responses.](https://www.ncbi.nlm.nih.gov/pubmed/30480641)

Mbiribindi B, Harden JT, Pena JK, **Krams SM**.

Curr Opin Organ Transplant. 2019 Feb;24(1):37-41. doi: 10.1097/MOT.0000000000000590. Review.

PMID:30480641

85.[Catalytic linkage between caspase activity and proteostasis in Archaea.](https://www.ncbi.nlm.nih.gov/pubmed/30370585)

Seth-Pasricha M, Senn S, Sanman LE, **Bogyo M**, Nanda V, Bidle KA, Bidle KD.

Environ Microbiol. 2019 Jan;21(1):286-298. doi: 10.1111/1462-2920.14456. Epub 2019 Jan 8.

PMID:30370585

86.[Pilot studies demonstrate the potential benefits of antiinflammatory therapy in human lymphedema.](https://www.ncbi.nlm.nih.gov/pubmed/30333315)

**Rockson SG**, Tian W, Jiang X, Kuznetsova T, Haddad F, Zampell J, Mehrara B, Sampson JP, Roche L, Kim J, **Nicolls MR**.

JCI Insight. 2018 Oct 18;3(20). pii: 123775. doi: 10.1172/jci.insight.123775.

PMID:30333315

87.[Glucose metabolism controls disease-specific signatures of macrophage effector functions.](https://www.ncbi.nlm.nih.gov/pubmed/30333306)

Watanabe R, Hilhorst M, Zhang H, Zeisbrich M, Berry GJ, Wallis BB, Harrison DG, Giacomini JC, Goronzy JJ, Weyand CM.

JCI Insight. 2018 Oct 18;3(20). pii: 123047. doi: 10.1172/jci.insight.123047.

PMID:30333306