

2020 Student Publications-Rutgers SGS-Newark

Abdelraouf K, **Chavda KD**, Satlin MJ, Jenkins SG, Kreiswirth BN, Nicolau DP. Piperacillin- Tazobactam-Resistant/Third-Generation Cephalosporin-Susceptible Escherichia coli and Klebsiella pneumoniae Isolates: Resistance Mechanisms and In vitro-In vivo Discordance. *Int J Antimicrob Agents*. 2020 Mar;55(3):105885. [Epub ahead of print] [PubMed](#)

Al-Jawadi A, **Patel CR**, **Shiarella RJ**, Romelus E, **Auvinen M**, **Guardia J**, Pearce SC, Kishida K, Yu S, Gao N, Ferraris RP. Cell-Type-Specific, Ketoheokinase-Dependent Induction by Fructose of Lipogenic Gene Expression in Mouse Small Intestine. *J Nutr*. 2020 May 9. pii: nxaa113. [Epub ahead of print] [PubMed](#)

Anastasio A, **Gergues M**, Lebhar MS, Rameshwar P, Fernandez-Moure J. Isolation and characterization of mesenchymal stem cells in orthopaedics and the emergence of compact bone mesenchymal stem cells as a promising surgical adjunct. *World J Stem Cells*. 2020 Nov 26;12(11):1341-1353. [PMID](#)

Behrendt M, Gruss F, Enzeroth R, Dembla S, **Zhao S**, Crassous PA, Mohr F, Nys M, Louros N, Gallardo R, Zorzini V, Wagner D, Economou A, Rousseau F, Schymkowitz J, Philipp SE, Rohacs T, Ulens C, Oberwinkler J. The structural basis for an on-off switch controlling G β -mediated inhibition of TRPM3 channels. *Proc Natl Acad Sci U S A*. 2020 Oct 29:202001177. Epub ahead of print. [PMID](#)

Behmer Hansen RT, Behmer Hansen RA, **Markosian C**, Mazzola CA, Mammis A. Neurosurgery Community Engagement: Lessons Learned. *World Neurosurg*. 2020 Nov;143:579-580. [PMID](#)

Brillantes M, Beaulieu AM. Memory and Memory-Like NK Cell Responses to Microbial Pathogens. *Front Cell Infect Microbiol*. 2020 Mar 25;10:102. eCollection 2020. Review. [PubMed](#)

Cai B, Dongiovanni P, Corey KE, Wang X, Shmarakov IO, Zheng Z, Kasikara C, **Davra V**, Meroni M, Chung RT, Rothlin CV, Schwabe RF, Blaner WS, Birge RB, Valenti L, Tabas I. Macrophage MerTK Promotes Liver Fibrosis in Nonalcoholic Steatohepatitis. *Cell Metab*. 2020 Feb 4;31(2):406-421.e7. [PMID](#)

Calianese DC, Birge RB. Biology of phosphatidylserine (PS): basic physiology and implications in immunology, infectious disease, and cancer. *Cell Commun Signal*. 2020 Mar 11;18(1):41. [PubMed](#)

Chakraborti M, **Schlachter S**, Primus S, Wagner J, Sweet B, Carr Z, Cornell KA, Parveen N. Evaluation of Nucleoside Analogs as Antimicrobials Targeting Unique Enzymes in *Borrelia burgdorferi*. *Pathogens*. 2020 Aug 20;9(9):E678. [PMID](#)

Chokshi RJ, Kim JK, **Patel J**, Oliver JB, Mahmoud O. Impact of insurance status on overall survival after cytoreductive surgery and hyperthermic intraperitoneal chemotherapy (CRS-HIPEC). *Pleura Peritoneum*. 2020 Aug 4;5(3):20200105. [PMID](#)

Christakos S, **Li S**, De La Cruz J, Shroyer NF, Criss ZK, Verzi MP, Fleet JC. Vitamin D and the intestine: Review and update. *J Steroid Biochem Mol Biol*. 2020 Feb; 196: 105501. [PMID](#)

Christakos S, **Li S**, DeLa Cruz J, Verlinden L, Carmeliet G. Vitamin D and Bone. *Handb Exp Pharmacol*. 2020;262:47-63. [PMID](#)

Ciccarelli BT, Hu T, Wang Q, Kim JJ, Whitehead IP. Examination of clinically-derived p210 BCR/ABL1 RhoGEF mutations in a murine bone marrow transplantation model of CML. *Leuk Res*. 2020 Oct;97:106440. Epub 2020 Aug 25. [PMID](#)

Colangelo NW, Azzam EI. Extracellular vesicles originating from glioblastoma cells increase metalloproteinase release by astrocytes: the role of CD147 (EMMPRIN) and ionizing radiation. *Cell Commun Signal*. 2020 Feb 7;18(1):21. [PubMed](#)

Colangelo NW, Azzam EI. The Importance and Clinical Implications of FLASH Ultra-High Dose-Rate Studies for Proton and Heavy Ion Radiotherapy. *Radiat Res*. 2020 Feb 7;18(1):21. [PubMed](#)

Colangeli R, Gupta A, Vinhas SA, Chippada Venkata UD, Kim S, **Grady C**, Jones-López EC, Soteropoulos P, Palaci M, Marques-Rodrigues P, Salgame P, Ellner JJ, Dietze R, Alland D. Mycobacterium tuberculosis progresses through two phases of latent infection in humans. *Nat Commun*. 2020 Sep 25;11(1):4870. [PMID](#)

Davra V, Saleh T, **Geng K**, Kimani S, Mehta D, **Kasikara C**, Smith B, **Colangelo NW**, **Ciccarelli B**, Li H, Azzam EI, Kalodimos CG, Birge RB, **Kumar S**. Cyclophilin A Inhibitor Debio-025 Targets Crk, Reduces Metastasis, and Induces Tumor Immunogenicity in Breast Cancer. *Mol Cancer Res*. 2020 Aug;18(8):1189-1201. [PMID](#)

Deb P, Dai J, Singh S, Kalyoussef E, Fitzgerald-Bocarsly P. Triggering of the cGAS-STING Pathway in Human Plasmacytoid Dendritic Cells Inhibits TLR9-Mediated IFN Production. *J Immunol*. 2020 Jul 1;205(1):223-236. [PMID](#)

Deb PQ, Marcus JZ, Abedin Y, Heller DS. A Deceptive Spread: Myoinvasion of Endometrial Carcinoma Imitating Adenoma Malignum. *Int J Surg Pathol*. 2020 May;28(3):284-286. Epub 2019 Nov 5. [PMID](#)

Del Rosario JS, Yudin Y, Su S, Hartle CM, Mirshahi T, Rohacs T. Gi-coupled receptor activation potentiates Piezo2 currents via Gβγ. *EMBO Rep*. 2020 Mar 29:e49124. [PubMed](#)

de Souza NL, Parker R, Gonzalez CS, Ryan JD, Esopenko C. Effect of age at time of injury on long-term changes in intrinsic functional connectivity in traumatic brain injury. *Brain Inj*. 2020 Oct 14;34(12):1646-1654 [PMID](#)

Dewald HK, **Hurley HJ**, Fitzgerald-Bocarsly P. Regulation of Transcription Factor E2-2 in Human Plasmacytoid Dendritic Cells by Monocyte-Derived TNFα. *Viruses*. 2020 Jan 31;12(2). pii: E162. [PubMed](#)

Dutta O, Espinosa V, Wang K, Avina S, Rivera A. Dectin-1 Promotes Type I and III Interferon Expression to Support Optimal Antifungal Immunity in the Lung. *Front Cell Infect Microbiol.* 2020 Jul 8;10:321. [PMID](#)

Eilertson B, Chen L, Li A, **Chavda KD**, Chavda B, Kreiswirth BN. CG258 Klebsiella pneumoniae isolates without β -lactam resistance at the onset of the carbapenem-resistant Enterobacteriaceae epidemic in New York City. *J Antimicrob Chemother.* 2019 Jan 1;74(1):17-21. [PubMed](#)

EI-Naccache DW, Chen F, Chen N, Gause WC. The NET Effect of Neutrophils during Helminth Infection. *Cell Host Microbe.* 2020 Feb 12;27(2):165-168 [PubMed](#)

EI-Naccache DW, Haskó G, Gause WC. Early Events Triggering the Initiation of a Type 2 Immune Response. *Trends Immunol.* 2020 Dec 29:S1471-4906(20)30281-7. Epub ahead of print. [PMID](#)

Esopenko C, **de Souza N**, Conway F, Todaro SM, Brostrand K, Womack J, Monaco R, Buckman JF. Bigger Necks Are Not Enough: An Examination of Neck Circumference in Incoming College Athletes. *J Prim Prev.* 2020 Oct;41(5):421-429. [PMID](#)

Favre ME, Lim V, Falvo MJ, Serrador JM. Cerebrovascular reactivity and cerebral autoregulation are improved in the supine posture compared to upright in healthy men and women. *PLoS One.* 2020 Mar 2;15(3):e0229049. eCollection 2020. [PubMed](#)

Ferrer A, Roser CT, El-Far MH, Savanur VH, Eljarrah A, **Gergues M**, Kra JA, Etchegaray JP, Rameshwar P. Hypoxia-mediated changes in bone marrow microenvironment in breast cancer dormancy. *Cancer Lett.* 2020 May 30;488:9-17. [PMID](#)

Ferrer AI, Trinidad JR, Sandiford O, Etchegaray JP, Rameshwar P. Epigenetic dynamics in cancer stem cell dormancy. *Cancer Metastasis Rev.* 2020 Sep;39(3): 721-738. Review. [PubMed](#)

Fischer MA, Golovchenko NB, Edelblum KL. $\gamma\delta$ T cell migration: Separating trafficking from surveillance behaviors at barrier surfaces. *Immunol Rev.* 2020 Aug 26. Epub ahead of print. [PMID](#)

Francisco J, Zhang Y, Jeong JI, Mizushima W, Ikeda S, Ivessa A, Oka S, Zhai P, Tallquist MD, Del Re DP. Blockade of Fibroblast YAP Attenuates Cardiac Fibrosis and Dysfunction Through MRTF-A Inhibition. *JACC Basic Transl Sci.* 2020 Sep 28;5(9):931-945. [PMID](#)

Fu R, Mei Q, Shiwalkar N, Zuo W, Zhang H, **Gregor D**, Patel S, Ye JH. Anxiety during alcohol withdrawal involves 5-HT_{2C} receptors and M-channels in the lateral habenula. *Neuropharmacology.* 2020 Feb;163:107863. [PMID](#)

Gadiyar V, **Lahey KC, Calianese D**, Devoe C, Mehta D, Bono K, **Desind S, Davra V**, Birge RB. Cell Death in the Tumor Microenvironment: Implications for Cancer Immunotherapy. *Cells.* 2020 Sep 29;9(10):2207. [PMID](#)

Gadiyar V, Patel G, **Davra V**. Immunological role of TAM receptors in the cancer microenvironment. *Int Rev Cell Mol Biol*. 2020;357:57-79. [PMID](#)

Geng K. Post-translational modifications of the ligands: Requirement for TAM receptor activation. *Int Rev Cell Mol Biol*. 2020;357:35-55. [PMID](#)

Gergues M, Nagula V, Bliss SA, Eljarrah A, Ayer S, Gnanavel N, **Sinha G**, Wu Q, Yehia G, Greco SJ, Qian J, Rameshwar P. Neuroimmune/Hematopoietic Axis with Distinct Regulation by the High-Mobility Group Box 1 in Association with Tachykinin Peptides. *J Immunol*. 2020 Feb 15;204(4):879-891. [PubMed](#)

He L, Han G, Wu S, Du S, **Zhang Y**, Liu W, Jiang B, Zhang L, Xia S, Jia S, Hannaford S, Xu Y, Tao YX. Toll-like receptor 7 contributes to neuropathic pain by activating NF- κ B in primary sensory neurons. *Brain Behav Immun*. 2020 Jul;87:840-851. [PubMed](#)

He YZ, Long TF, Chen CP, He B, Li XP, **Schuyler J**, Chen L, Liao XP, Liu YH, Sun J. IS *Kpn40*-mediated mobilization of the colistin resistance gene *mcr-3.11* in *Escherichia coli*. *Antimicrob Agents Chemother*. 2020 Jul 13:AAC.00851-20. Epub ahead of print. [PMID](#)

Himelman E, Lillo MA, **Nouet J**, Gonzalez JP, Zhao Q, Xie LH, Li H, Liu T, Wehrens XH, Lampe PD, Fishman GI, Shirokova N, Contreras JE, Fraidenraich D. Prevention of connexin-43 remodeling protects against Duchenne muscular dystrophy cardiomyopathy. *J Clin Invest*. 2020 Apr 1;130(4):1713-1727. [PMID](#)

Hirschberg PR, Sarkar P, **Teegala SB**, Routh VH. Ventromedial hypothalamus glucose-inhibited neurones: A role in glucose and energy homeostasis? *J Neuroendocrinol*. 2020 Jan;32(1):e12773. Epub 2019 Aug 4. [PMID](#)

Inclan-Rico JM, **Hernandez CM**, **Henry EK**, **Federman HG**, **Sy CB**, **Ponessa JJ**, Lemenze AD, Joseph N, Soteropoulos P, Beaulieu AM, Yap GC, Siracusa MC. Trichinella spiralis-induced mastocytosis and erythropoiesis are simultaneously supported by a bipotent mast cell/erythrocyte precursor cell. *PLoS Pathog*. 2020 May 18;16(5):e1008579. [PMID](#)

Inclan-Rico JM, **Ponessa JJ**, Valero-Pacheco N, **Hernandez CM**, **Sy CB**, Lemenze AD, Beaulieu AM, Siracusa MC. Basophils prime group 2 innate lymphoid cells for neuropeptide-mediated inhibition. *Nat Immunol*. 2020 Oct;21(10):1181-1193. [PMID](#)

Inoyama D, Awasthi D, Capodagli GC, Tsotetsi K, **Sukheja P**, Zimmerman M, Li SG, Jadhav R, Russo R, **Wang X**, **Grady C**, Richmann T, Shrestha R, **Li L**, Ahn YM, Ho Liang HP, Mina M, Park S, Perlin DS, Connell N, Dartois V, Alland D, Neiditch MB, Kumar P, Freundlich JS. A Preclinical Candidate Targeting Mycobacterium tuberculosis KasA. *Cell Chem Biol*. 2020 May 21;27(5):560-570.e10. [PubMed](#)

Jeffries MA, Obr AE, Urbanek K, Fyffe-Maricich SL, Wood TL. *Cnp* Promoter-Driven Sustained ERK1/2 Activation Increases B-Cell Activation and Suppresses Experimental Autoimmune Encephalomyelitis. *ASN Neuro*. 2020 Jan-Dec;12:1759091420971916. [PMID](#)

Jeon YH, He M, Austin J, **Shin H**, Pflieger J, Abdellatif M. Adiponectin enhances the bioenergetics of cardiac myocytes via an AMPK and succinate dehydrogenase-dependent mechanism. *Cell Signal*. 2020 Nov 30:109866. Epub ahead of print. [PMID](#)

Kelemen B, Pinto S, **Kim N**, Lisztes E, Hanyicska M, Vladár A, Oláh A, Péntes Z, Shu B, Vriens J, Bíró T, Rohács T, Voets T, Tóth BI. The TRPM3 ion channel mediates pain nociception but not itch evoked by endogenous pruritogenic mediators. *Biochem Pharmacol*. 2020 Oct 29:114310. [PMID](#)

Korgaonkar AA, Li Y, Sekhar D, Subramanian D, Guevarra J, **Swietek B**, **Pallottie A**, **Singh S**, Kella K, Elkabes S, Santhakumar V. TLR4 signaling in neurons enhances calcium-permeable AMPAR currents and drives post-traumatic epileptogenesis. *Ann Neurol*. 2020 Feb 7. [Epub ahead of print] [PubMed](#)

Kumari E, Velloso FJ, **Nasuhidehnavi A**, Somasundaram A, Savanur VH, Buono KD, Levison SW. Developmental IL-6 Exposure Favors Production of PDGF-Responsive Multipotential Progenitors at the Expense of Neural Stem Cells and Other Progenitors. *Stem Cell Reports*. 2020 May 12;14(5):861-875. [PubMed](#)

Leong S, Zhao Y, Ribeiro-Rodrigues R, Jones-López EC, Acuña-Villaorduña C, Rodrigues PM, Palaci M, Alland D, Dietze R, Ellner JJ, Johnson WE, Salgame P. Cross-validation of existing signatures and derivation of a novel 29-gene transcriptomic signature predictive of progression to TB in a Brazilian cohort of household contacts of pulmonary TB. *Tuberculosis (Edinb)*. 2020 Jan;120:101898. [PubMed](#)

Leung CN, Canter BS, Rajon D, Bäck TA, Fritton JC, Azzam EI, Howell RW. Dose-Dependent Growth Delay of Breast Cancer Xenografts in the Bone Marrow of Mice Treated with (223)Ra: The Role of Bystander Effects and Their Potential for Therapy. *J Nucl Med*. 2020 Jan;61(1):89-95. [PubMed](#)

Li L, Acioglu C, Heary RF, Elkabes S. Role of astroglial toll-like receptors (TLRs) in central nervous system infections, injury and neurodegenerative diseases. *Brain Behav Immun*. 2021 Jan;91:740-755. [PMID](#)

Li L, Ni L, Heary RF, Elkabes S. Astroglial TLR9 antagonism promotes chemotaxis and alternative activation of macrophages via modulation of astrocyte-derived signals: implications for spinal cord injury. *J Neuroinflammation*. 2020 Feb 25;17(1):73 [PubMed](#)

Li S, De La Cruz J, Hutchens S, Mukhopadhyay S, Criss ZK, Aita R, Pellon-Cardenas O, Hur J, Soteropoulos P, Husain S, Dhawan P, Verlinden L, Carmeliet G, Fleet JC, Shroyer NF, Verzi MP, Christakos S. Analysis of 1,25-dihydroxyvitaminD₃ genomic action reveals calcium regulating and calcium independent effects in mouse intestine and human enteroids. *Mol Cell Biol*. 2020 Dec 21;41(1):e00372-20. [PMID](#)

Lillo MA, **Himelman E**, Shirokova N, Xie LH, Fraidenaich D, Contreras JE. S-nitrosylation of connexin43 hemichannels elicits cardiac stress-induced arrhythmias in Duchenne muscular dystrophy mice. *JCI Insight*. 2019 Dec 19;4(24):e130091. [PMID](#)

Liu D, **Badeti S**, Dotti G, Jiang JG, Wang H, Dermody J, Soteropoulos P, Streck D, Birge RB, Liu C. The Role of Immunological Synapse in Predicting the Efficacy of Chimeric Antigen Receptor (CAR) Immunotherapy. *Cell Commun Signal*. 2020 Aug

25;18(1):134. [PMID](#)

Liu L, Rohacs T. Regulation of the cold-sensing TRPM8 channels by phosphoinositides and G(q)-coupled receptors. *Channels (Austin)*. 2020 Dec;14(1):79-86. [PubMed](#)

Liu L, Yudin Y, Rohacs T. Diacylglycerol kinases regulate TRPV1 channel activity. *J Biol Chem*. 2020 Jun 12;295(24):8174-8185. [PMID](#)

Lv M, **Cui C**, Chen P, Li Z. Identification of osteoporosis markers through bioinformatic functional analysis of serum proteome. *Medicine (Baltimore)*. 2020 Sep 25;99(39):e22172. [PMID](#)

Manabe YC, Andrade BB, Gupte N, **Leong S**, Kintali M, Matoga M, Riviere C, Samaneka W, Lama JR, Naidoo K, Zhao Y, Johnson WE, Ellner JJ, Hosseinipour MC, Bisson GP, Salgame P, Gupta A. A Parsimonious Host Inflammatory Biomarker Signature Predicts Incident Tuberculosis and Mortality in Advanced Human Immunodeficiency Virus. *Clin Infect Dis*. 2020 Dec 17;71(10):2645-2654. [PMID](#)

Markosian C, Shekherdimian S, Badalian SS, Libaridian L, Jilozian A, Baghdassarian A. Medical Education in the Former Soviet Union: Opportunities in Armenia. *Ann Glob Health*. 2020 Aug 13;86(1):99. [PMID](#)

Markosian C, Taruvai VS, Mammis A. Neuromodulatory hacking: a review of the technology and security risks of spinal cord stimulation. *Acta Neurochir (Wien)*. 2020 Dec;162(12):3213-3219. Epub 2020 Oct 3. [PMID](#)

Meaden CW, Mozeika A, **Asri R**, Santos CD. A review of the existing literature on buprenorphine pharmacogenomics. *Pharmacogenomics J*. 2020 Nov 5. Epub ahead of print. [PMID](#)

Monteleone N. J., Lutz C. S. miR-708-5p targets oncogenic prostaglandin E2 production to suppress a pro-tumorigenic phenotype in lung cancer cells. *Oncotarget*. 2020; 11: 2464-2483. [PubMed](#)

Musah AS, Brown TL, **Jeffries MA**, Shang Q, Hashimoto H, **Evangelou AV**, Kowalski A, Batish M, Macklin WB, Wood TL. Mechanistic Target of Rapamycin Regulates the Oligodendrocyte Cytoskeleton during Myelination. *J Neurosci*. 2020 Apr 8;40(15):2993-3007. [PubMed](#)

Nah J, Zhai P, Huang CY, Fernández ÁF, **Mareedu S**, Levine B, Sadoshima J. Upregulation of Rubicon promotes autosis during myocardial ischemia/reperfusion injury. *J Clin Invest*. 2020 Jun 1;130(6):2978-2991. [PubMed](#)

Niu S, **Chavda KD**, Wei J, Zou C, Marshall SH, Dhawan P, Wang D, Bonomo RA, Kreiswirth BN, Chen L. A Ceftazidime-Avibactam-Resistant and Carbapenem-Susceptible *Klebsiella pneumoniae* Strain Harboring *bla*_{KPC-14} Isolated in New York City. *mSphere*. 2020 Aug 26;5(4):e00775-20. [PMID](#)

Nouet J, **Himelman E**, **Lahey KC**, Zhao Q, Fraidenraich D. Connexin-43 reduction prevents muscle defects in a mouse model of manifesting Duchenne muscular dystrophy female carriers. *Sci Rep*. 2020 Mar 30;10(1):5683. [PubMed](#)

Oka SI, Chin A, Park JY, Ikeda S, Mizushima W, Ralda G, Zhai P, **Tong M, Byun J**, Tang F, Einaga Y, Huang CY, Kashihara T, Zhao M, Nah J, Tian B, Hirabayashi Y, Yodoi J, Sadoshima J. Thioredoxin-1 maintains mitochondrial function via mechanistic target of rapamycin signalling in the heart. *Cardiovasc Res*. 2020 Aug 1;116(10):1742-1755. [PMID](#)

Oka SI, Sabry AD, Horiuchi AK, Cawley KM, O'Very SA, Zaitsev MA, Shankar TS, **Byun J**, Mukai R, Xu X, Torres NS, Kumar A, Yazawa M, Ling J, Taleb I, Saijoh Y, Drakos SG, Sadoshima J, Warren JS. Perm1 regulates cardiac energetics as a downstream target of the histone methyltransferase Smyd1. *PLoS One*. 2020 Jun 23;15(6):e0234913. [PMID](#)

Ornelas IM, **Khandker L**, Wahl SE, Hashimoto H, Macklin WB, Wood TL. The mechanistic target of rapamycin pathway downregulates bone morphogenetic protein signaling to promote oligodendrocyte differentiation. *Glia*. 2020 Jun;68(6):1274-1290. [PubMed](#)

Palmieri J, Spiegler KM, Pang KCH, Myers CE. Dataset of active avoidance in Wistar-Kyoto and Sprague Dawley rats: Experimental data and reinforcement learning model code and output. *Data Brief*. 2020 Jul 25;32:106074. [PMID](#)

Patel SK, **Markosian C**, Choudhry OJ, Keller JT, Liu JK. The historical evolution of microvascular decompression for trigeminal neuralgia: from Dandy's discovery to Jannetta's legacy. *Acta Neurochir (Wien)*. 2020 Nov;162(11):2773-2782. Epub 2020 Jun 9. [PMID](#)

Peignier A, Parker D. *Pseudomonas aeruginosa* Can Degrade Interferon λ , Thereby Repressing the Antiviral Response of Bronchial Epithelial Cells. *J Interferon Cytokine Res*. 2020 Aug;40(8):429-431. [PMID](#)

Peignier A, Parker D. Trained immunity and host-pathogen interactions. *Cell Microbiol*. 2020 Dec;22(12):e13261. [PMID](#)

Peignier A, Planet PJ, Parker D. Differential induction of type I and III interferons by *Staphylococcus aureus*. *Infect Immun*. 2020 Sep 18;88(10):e00352-20. [PMID](#)

Pereira JC, Daher SS, Zorn KM, Sherwood M, Russo R, Perryman AL, **Wang X**, Freundlich MJ, Ekins S, Freundlich JS. Machine Learning Platform to Discover Novel Growth Inhibitors of *Neisseria gonorrhoeae*. *Pharm Res*. 2020 Jul 13; 37(7): 141. [PMID](#)

Perryman AL, Inoyama D, **Patel JS**, Ekins S, Freundlich JS. Pruned Machine Learning Models to Predict Aqueous Solubility. *ACS Omega*. 2020 Jul 1;5(27):16562-16567. [PMID](#)

Pires S, **Peignier AC**, Seto J, Smyth DS, Parker D. Biological sex influences susceptibility to *Acinetobacter baumannii* pneumonia in mice. *JCI Insight*. 2020 Mar 19; 5(7):e132223. [PubMed](#)

Ramirez A, Astrof S. Visualization and Analysis of Pharyngeal Arch Arteries using Whole-mount Immunohistochemistry and 3D Reconstruction. *J Vis Exp*. 2020 Mar 31;(157):10.3791/60797. [PMID](#)

Ren S, Yao W, Tambini MD, **Yin T**, Norris KA, D'Adamio L. Microglia *TREM2^{R47H}* Alzheimer-linked variant enhances excitatory transmission and reduces LTP via increased TNF- α levels. *Elife*. 2020 Jun 24;9:e57513. [PMID](#)

Sarkisian S, **Markosian C**, Ali Z, Rizvi M. Palbociclib-Induced Pneumonitis: A Case Report and Review of the Literature. *Cureus*. 2020 Jun 30;12(6):e8929. [PMID](#)

Seo JH, Dalal MS, Calderon F, Contreras JE. Myeloid Pannexin-1 mediates acute leukocyte infiltration and leads to worse outcomes after brain trauma. *J Neuroinflammation*. 2020 Aug 20;17(1):245. [PMID](#)

Sinha G, Ferrer AI, Moore CA, Naaldijk Y, Rameshwar P. Gap Junctions and Breast Cancer Dormancy. *Trends Cancer*. 2020 Apr;6(4):348-357. Review. [PubMed](#)

Smith TC 2nd, Pullen KM, Olson MC, McNellis ME, Richardson I, Hu S, Larkins-Ford J, **Wang X**, Freundlich JS, Ando DM, Aldridge BB. Morphological profiling of tubercle bacilli identifies drug pathways of action. *Proc Natl Acad Sci U S A*. 2020 Aug 4;117(31):18744-18753. [PMID](#)

Song S, **De S**, Nelson V, Chopra S, LaPan M, Kampta K, Sun S, He M, Thompson CD, Li D, Shih T, Tan N, Al-Abed Y, Capitle E, Aranow C, Mackay M, Clapp WL, Barnes BJ. Inhibition of IRF5 hyperactivation protects from lupus onset and severity. *J Clin Invest*. 2020 Dec 1;130(12):6700-6717. [PMID](#)

Spiegler KM, Palmieri J, Pang KCH, Myers CE. A reinforcement-learning model of active avoidance behavior: Differences between Sprague Dawley and Wistar-Kyoto rats. *Behav Brain Res*. 2020 Jun 22:112784. Epub ahead of print. [PMID](#)

Tang Y, **Shah TA**, Yurkow EJ, Rogers MB. MicroRNA Profiles in Calcified and Healthy Aorta Differ: Therapeutic Impact of miR-145 and miR-378. *Physiol Genomics*. 2020 Sep 21. Epub ahead of print. [PMID](#)

Tasker C, Pizutelli V, Lo Y, Ramratnam B, Roche NE, Chang TL. Depot medroxyprogesterone acetate (Depo-Provera) administration increases cervical CCR5+CD4+ T cells and induces immunosuppressive milieu at the cervicovaginal mucosa: a 3-month longitudinal study. *AIDS*. 2020 Jan 16. [Epub ahead of print] [PubMed](#)

Teegala SB, Sheng Z, **Dalal MS, Hirschberg PR**, Beck KD, Routh VH. Lateral hypothalamic orexin glucose-inhibited neurons may regulate reward-based feeding by modulating glutamate transmission in the ventral tegmental area. *Brain Res*. 2020 Mar 15;1731:145808. [PMID](#)

Tseng HC, Xiong W, **Badeti S**, Yang Y, **Ma M**, Liu T, Ramos CA, Dotti G, Fritzky L, Jiang JG, Yi Q, Guarrera J, Zong WX, Liu C, Liu D. Efficacy of anti-CD147 chimeric antigen receptors targeting hepatocellular carcinoma. *Nat Commun*. 2020 Sep 23;11(1):4810. [PMID](#)

Tsenova L, Fallows D, Kolloli A, Singh P, **O'Brien P**, Kushner N, Kaplan G, Subbian S. Inoculum size and traits of the infecting clinical strain define the protection level against Mycobacterium tuberculosis infection in a rabbit model. *Eur J Immunol*. 2020 Jun;50(6):858-872. [PMID](#)

Wang X, Caffrey-Carr AK, Liu KW, **Espinosa V**, Croteau W, Dhingra S, Rivera A, Cramer RA, Obar JJ. MDA5 Is an Essential Sensor of a Pathogen-Associated Molecular Pattern Associated with Vitality That Is Necessary for Host Resistance against *Aspergillus fumigatus*. *J Immunol*. 2020 Dec 1;205(11):3058-3070. [PMID](#)

Wang X, Inoyama D, Russo R, Li SG, Jadhav R, Stratton TP, Mittal N, Bilotta JA, Singleton E, Kim T, Paget SD, Pottorf RS, Ahn YM, **Davila-Pagan A**, Kandasamy S, **Grady C**, Hussain S, Soteropoulos P, Zimmerman MD, Ho HP, Park S, Dartois V, Ekins S, Connell N, Kumar P, Freundlich JS. Antitubercular Triazines: Optimization and Intrabacterial Metabolism. *Cell Chem Biol*. 2020 Feb 20;27(2):172-185.e11. Epub 2019 Nov 8. [PMID](#)

Wang Y, **Li S**, Pan W, Xiao P, Zhang J, Wang QM, Luo X, Wang Y. Evaluation of the disability assessment Longshi scale: A multicenter study. *J Int Med Res*. 2020 Jul; 48(7):300060520934299.. [PMID](#)

Wu G, Lu ZH, **Seo JH**, Alselehdar SK, DeFrees S, Ledeen RW. Mice deficient in GM1 manifest both motor and non-motor symptoms of Parkinson's disease; successful treatment with synthetic GM1 ganglioside. *Exp Neurol*. 2020 Mar 9:113284. [PubMed](#)

Wu Q, Wang X, Pham K, **Luna A**, Studzinski GP, Liu C. Enhancement of sorafenib-mediated death of Hepatocellular carcinoma cells by Carnosic acid and Vitamin D2 analog combination. *J Steroid Biochem Mol Biol*. 2020 Mar;197:105524. Epub 2019 Nov 5. [PMID](#)

Yam YK, Alvarez N, Go ML, Dick T. Extreme Drug Tolerance of Mycobacterium abscessus "Persists". *Front Microbiol*. 2020 Mar 4;11:359. eCollection 2020. [PubMed](#)

Yang Y, **Badeti S**, **Tseng HC**, **Ma MT**, Liu T, Jiang JG, Liu C, Liu D. Superior Expansion and Cytotoxicity of Human Primary NK and CAR-NK Cells from Various Sources via Enriched Metabolic Pathways. *Mol Ther Methods Clin Dev*. 2020 Jun 24;18:428-445. [PMID](#)

Zakaria AM, **Colangelo NW**, Meesungnoen J, Azzam EI, Plourde MÉ, Jay-Gerin JP. Ultra-High Dose-Rate, Pulsed (FLASH) Radiotherapy with Carbon Ions: Generation of Early, Transient, Highly Oxygenated Conditions in the Tumor Environment. *Radiat Res*. 2020 Dec 1;194(6):587-593. [PMID](#)

Zhao S, Yudin Y, Rohacs T. Disease-associated mutations in the human TRPM3 render the channel overactive via two distinct mechanisms. *Elife*. 2020 Apr 28;9. pii: e55634. [Epub ahead of print] [PubMed](#)