

Department of Pathology

Publications (Oct.-Dec. 2024)

- Babuta M, Morel C, de Carvalho Ribeiro M, Calenda C, Ortega-Ribera M, Thevkar Nagesh P, Copeland C, Zhuang Y, Wang Y, Cho Y, Joshi R, Brezani V, Hawryluk D, Datta AA, Mehta J, Nasser I, Szabo G. [Neutrophil extracellular traps activate hepatic stellate cells and monocytes via NLRP3 sensing in alcohol-induced acceleration of MASH fibrosis.](#) Gut. 2024 Oct 7;73(11):1854-1869. doi: 10.1136/gutjnl-2023-331447. PMID: 38777573; PMCID: PMC11458363.
- Chen JK, Merrick KA, Kong YW, Izrael-Tomasevic A, Eng G, Handly ED, Patterson JC, Cannell IG, Suarez-Lopez L, Hosios AM, Dinh A, Kirkpatrick DS, Yu K, Rose CM, Hernandez JM, Hwangbo H, Palmer AC, Vander Heiden MG, Yilmaz ÖH, Yaffe MB. [An RNA damage response network mediates the lethality of 5-FU in colorectal cancer.](#) Cell Rep Med. 2024 Oct 15;5(10):101778. doi: 10.1016/j.xcrm.2024.101778. Epub 2024 Oct 7. PMID: 39378883; PMCID: PMC11514606.
- Tu Z, Bassal MA, Bell GW, Zhang Y, Hu Y, Quintana LM, Gokul D, Tenen DG, Karnoub AE. [Tumor-suppressive activities for pogo transposable element derived with KRAB domain via ribosome biogenesis restriction.](#) Mol Cell. 2024 Oct 28:S1097-2765(24)00781-0. doi: 10.1016/j.molcel.2024.09.025. Epub ahead of print. PMID: 39481384.
- Suleiman A, Munoz-Acuna R, Redaelli S, Ahrens E, Tartler TM, Ashrafian S, Hashish MM, Santarisi A, Chen G, Riedel S, Talmor D, Baedorf Kassis EN, Schaefer MS, Goodspeed V. [Previous Coronavirus Disease-2019 Infection and Lung Mechanics in Surgical Patients: A Hospital Registry Study.](#) Anesth Analg. 2024 Nov 1;139(5):997-1005. doi: 10.1213/ANE.0000000000007015. Epub 2024 Jul 26. PMID: 39058628.
- Lee SH, Pankaj A, Rickelt S, Ting D, Ferrone C, Patil DT, Yilmaz O, Berger D, Deshpande V, Yilmaz O. [β2-microglobulin expression is associated with aggressive histology, activated tumor immune milieu, and outcome in colon carcinoma.](#) Am J Clin Pathol. 2024 Nov 4;162(5):500-508. doi: 10.1093/ajcp/aae066. PMID: 38869306.
- Eleuteri S, Wang B, Cuttillo G, Zhang Fang TS, Tao K, Qu Y, Yang Q, Wei W, Simon DK. [PGC-1α regulation by FBXW7 through a novel mechanism linking chaperone-mediated autophagy and the ubiquitin-proteasome system.](#) FEBS J. 2024 Oct 21. doi: 10.1111/febs.17276. Epub ahead of print. PMID: 39429232.
- Deshpande V. [Streamlining pathology orders in a time-crunched medical world: much ado about requisitions.](#) J Clin Pathol. 2024 Oct 20;77(11):792. doi: 10.1136/jcp-2024-209486. PMID: 38538075.
- Galeano D, Imrat, Haltom J, Andolino C, Yousey A, Zaksas V, Das S, Baylin SB, Wallace DC, Slack FJ, Enguita FJ, Wurtele ES, Teegarden D, Meller R, Cifuentes D, Beheshti A. [sChemNET: a deep learning framework for predicting small molecules targeting microRNA function.](#) Nat Commun. 2024 Oct 23;15(1):9149. doi: 10.1038/s41467-024-49813-w. PMID: 39443444; PMCID: PMC11500171.
- Carney BJ, Achebe MO, Haspel RL. [Sickle Cell Trait, Inequity, and the Need for Change.](#) N Engl J Med. 2024 Nov 28;391(21):1972-1974. doi: 10.1056/NEJMp2408196. Epub 2024 Nov 23. PMID: 39588885.
- Hillis AL, Tamir T, Perry GE, Asara JM, Johnson JL, Yaron TM, Cantley LC, White FM, Toker A. [Parallel phosphoproteomics and metabolomics map the global metabolic tyrosine phosphoproteome.](#) Proc Natl Acad Sci U S A. 2024 Nov 19;121(47):e2413837121. doi: 10.1073/pnas.2413837121. Epub 2024 Nov 13. PMID: 39536083; PMCID: PMC11588116.

Department of Pathology

Publications (Oct.-Dec. 2024)

- Inuzuka H, Qian C, Qi Y, Xiong Y, Wang C, Wang Z, Zhang D, Zhang C, Jin J, Wei W. [Targeted Degradation of Receptor-Interacting Protein Kinase 1 to Modulate the Necroptosis Pathway](#). ACS Pharmacol Transl Sci. 2024 Oct 15;7(11):3518-3526. doi: 10.1021/acscptsci.4c00421. PMID: 39539258; PMCID: PMC11555510.
- Guzmán-Arocho YD, Weber TD, St Jacques T, Fujimoto JG, Rosen S, Sun Y. [Rapid Examination of Nonprocessed Renal Cell Carcinoma Using Nonlinear Microscopy](#). Arch Pathol Lab Med. 2024 Dec 1;148(12):1320-1326. doi: 10.5858/arpa.2023-0320-OA. PMID: 38411182; PMCID: PMC11347715.
- Pineda CM, Majid A, Costa DB, VanderLaan PA. [Comparative genomic and immunopathologic analysis of lung adenocarcinomas with and without cytology-proven malignant pleural effusions](#). Cancer Cytopathol. 2024 Dec;132(12):788-798. doi: 10.1002/cncy.22900. Epub 2024 Aug 29. PMID: 39207725.
- Oganessian R, Tahan SR. [Colloid Bodies in Cutaneous Basal Cell Carcinoma: Clinical and Histologic Correlates-An Analysis of 405 Cases](#). J Cutan Pathol. 2024 Nov 28. doi: 10.1111/cup.14755. Epub ahead of print. PMID: 39608841.
- Cheng Y, Zhang X, Li T, He C, Yang H, Zhou X, Huang Q*. [Clinicopathological features and prognosis of alpha-fetoprotein-producing colorectal adenocarcinoma](#). Histopathology. 2024 Dec 10. doi: 10.1111/his.15379. Epub ahead of print. PMID: 39654492.
- Ruiz-Torres DA, Wise J, Zhao BY, Oliveira-Costa JP, Cavallaro S, Sadow P, Fang J, Yilmaz O, Patel A, Loosbroock C, Sade-Feldman M, Faden DL, Stott SL. [Dendritic cell effector mechanisms and tumor immune microenvironment infiltration define TLR8 modulation and PD-1 blockade](#). bioRxiv [Preprint]. 2024 Sep 6:2024.09.03.610636. doi: 10.1101/2024.09.03.610636. Update in: Front Immunol. 2024 Dec 04;15:1440530. doi: 10.3389/fimmu.2024.1440530. PMID: 39282367; PMCID: PMC11398323.
- Isik Z, Calibasi-Kocal G, Yilmaz O. [Editorial: Biomarkers and mechanisms of gastrointestinal diseases](#). Front Genet. 2024 Nov 6;15:1516063. doi: 10.3389/fgene.2024.1516063. PMID: 39568678; PMCID: PMC11576415.
- Chen JK, Merrick KA, Kong YW, Izrael-Tomasevic A, Eng G, Handly ED, Patterson JC, Cannell IG, Suarez-Lopez L, Hosios AM, Dinh A, Kirkpatrick DS, Yu K, Rose CM, Hernandez JM, Hwangbo H, Palmer AC, Vander Heiden MG, Yilmaz ÖH, Yaffe MB. [An RNA damage response network mediates the lethality of 5-FU in colorectal cancer](#). Cell Rep Med. 2024 Oct 15;5(10):101778. doi: 10.1016/j.xcrm.2024.101778. Epub 2024 Oct 7. PMID: 39378883; PMCID: PMC11514606.
- Wang T, Roach MJ, Harvey K, Morlanes JE, Kiedik B, Al-Eryani G, Greenwald A, Kalavros N, Dezem FS, Ma Y, Pita-Juarez YH, Wise K, Degletagne C, Elz A, Hadadianpour A, Johanneson J, Pakiam F, Ryu H, Newell EW, Tonon L, Kohlway A, Drennon T, Abousoud J, Stott R, Lund P, Durruthy J, Vallejo AF, Li W, Salomon R, Kaczorowski D, Warren J, Butler LM, O'Toole S, Plummer J, Vlachos IS, Lundeberg J, Swarbrick A, Martelotto LG. [snPATHO-seq, a versatile FFPE single-nucleus RNA sequencing method to unlock pathology archives](#). Commun Biol. 2024 Oct 16;7(1):1340. doi: 10.1038/s42003-024-07043-2. PMID: 39414943; PMCID: PMC11484811.
- Quinlivan KM, Howard IV, Southan F, Bayer RL, Torres KL, Serhan CN, Panigrahy D. [Exploring the Unique Role of Specialized Pro-Resolving Mediators in Cancer Therapeutics](#). Prostaglandins Other Lipid Mediat. 2024 Dec 23:106944. doi: 10.1016/j.prostaglandins.2024.106944. Epub ahead of print. PMID: 39722403.

Department of Pathology

Publications (Oct.-Dec. 2024)

- Otani Y, Tanaka A, Maekawa M, Peña T, Rogachevskaya A, Ando T, Itano T, Katayama H, Nakata E, Ozaki T, Toyooka S, Doihara H, Roehrl MH, Fujimura A. [The role of C1orf50 in breast cancer progression and prognosis](#). Breast Cancer. 2024 Nov 28. doi: 10.1007/s12282-024-01653-8. Epub ahead of print. PMID: 39604563.
- Omenn GS, Orchard S, Lane L, Lindskog C, Pineau C, Overall CM, Budnik B, Mudge JM, Packer NH, Weintraub ST, Roehrl MHA, Nice E, Guo T, Van Eyk JE, Völker U, Zhang G, Bandeira N, Aebersold R, Moritz RL, Deutsch EW. [The 2024 Report on the Human Proteome from the HUPO Human Proteome Project](#). J Proteome Res. 2024 Dec 6;23(12):5296-5311. doi: 10.1021/acs.jproteome.4c00776. Epub 2024 Nov 8. PMID: 39514846.
- Tanaka A, Ogawa M, Zhou Y, Hendrickson RC, Miele MM, Li Z, Klimstra DS, Wang JY, Roehrl MHA. [Proteomic basis for pancreatic acinar cell carcinoma and pancreatoblastoma as similar yet distinct entities](#). NPJ Precis Oncol. 2024 Oct 3;8(1):221. doi: 10.1038/s41698-024-00708-5. PMID: 39363045; PMCID: PMC11449907.
- Rezaeian AH, Wei W. [Molecular signaling and clinical implications in the human aging-cancer cycle](#). Semin Cancer Biol. 2024 Nov;106-107:28-42. doi: 10.1016/j.semcancer.2024.08.003. Epub 2024 Aug 26. PMID: 39197809; PMCID: PMC11625621.
- Zhang D, Qi Y, Inuzuka H, Liu J, Wei W. [O-GlcNAcylation in tumorigenesis and its implications for cancer therapy](#). J Biol Chem. 2024 Sep;300(9):107709. doi: 10.1016/j.jbc.2024.107709. Epub 2024 Aug 22. PMID: 39178944; PMCID: PMC11417186.
- Nie L, Fei C, Fan Y, Dang F, Zhao Z, Zhu T, Wu X, Dai T, Balasubramanian A, Pan J, Hu Y, Luo HR, Wei W, Chen J. [Consecutive palmitoylation and phosphorylation orchestrates NLRP3 membrane trafficking and inflammasome activation](#). Mol Cell. 2024 Sep 5;84(17):3336-3353.e7. doi: 10.1016/j.molcel.2024.08.001. Epub 2024 Aug 21. PMID: 39173637.
- Jiang C, Tan X, Liu N, Yan P, Hou T, Wei W. [Nutrient sensing of mTORC1 signaling in cancer and aging](#). Semin Cancer Biol. 2024 Nov;106-107:1-12. doi: 10.1016/j.semcancer.2024.08.001. Epub 2024 Aug 15. PMID: 39153724.