

Department of Pathology

Publications

- Wilk AJ, Shameli A, Ames E, Fromm JR, Grzywacz B, Shi M, Cherian S, Oak J. [A practical difference from the normal approach to evaluate natural killer \(NK\) cells and NK cell neoplasms by flow cytometry.](#) Cytometry B Clin Cytom. 2026 Sep 25. doi: 10.1002/cyto.b.70076. Epub ahead of print. PMID: 42788374.
- Donovan MG, Eduthan NP, Niemeyer BF, Woods E, Hoffmeyer E, Jaeger N, Britton EC, Grzywacz BB, Fernandez JJ, Dumont G, Herrmann BW, Friedman NR, Jones D, Andrysik Z, Rachubinski AL, Sullivan KD, Galbraith MD, Verneris MR, Espinosa JM. [Progressive deterioration of adaptive immune repertoires in Down syndrome linked to interferon hyperactivity and lymphoid tissue disorganization.](#) bioRxiv [Preprint]. 2026 Aug 4:2026.07.30.741516. doi: 10.64898/2026.07.30.741516. PMID: 42620150; PMCID: PMC13484535.
- Coiner BL, Sharma AE, Ordulu Z, Nucci MR, Parra-Herran C. [CTNNB1-Mutant High-Grade Endometrial Carcinoma: Clinical Outcome and Prevalence of Pilomatrix-Like and Corded Hyalinized Morphologies in an Institutional Case-Control Series.](#) Mod Pathol. 2026 Jul;39(7):101013. doi: 10.1016/j.modpat.2026.101013. Epub 2026 May 12. PMID: 42128053.
- Armstrong A, Heng YJ, Sardella BR, Ratcliffe M, Rosner B, Tamimi RM, Yaghjian L. [Associations of alcohol use with expression of stromal markers in benign breast biopsy samples.](#) Br J Cancer. 2026 Sep;135(5):784-790. doi: 10.1038/s41416-026-03481-3. Epub 2026 Jun 11. PMID: 42277287; PMCID: PMC13478342.
- Amaya S, Schwartz SN, Kirby JE, Varma H. [Mycobacterium bovis BCG infection of the brain following intravesical BCG treatment.](#) ASM Case Rep. 2026 Jul 17;2(5):e00186-25. doi: 10.1128/asmcr.00186-25. PMID: 42683360; PMCID: PMC13532233.
- Raquib AR, Schwartz SN, Siddiqi SH, Varma H. [An open-source application for automated quantification of Ki-67 proliferative index in meningiomas.](#) J Neuropathol Exp Neurol. 2026 Aug 21:nlag083. doi: 10.1093/jnen/nlag083. Epub ahead of print. PMID: 42627773.
- Wang JC, Oo E, Enriquez E, Livingston N. [Structural complexity and mechanistic diversity of MECOM rearrangements in myeloid neoplasms.](#) Pathology. 2026 Oct;58(6):697-706. doi: 10.1016/j.pathol.2026.06.004. Epub 2026 Jul 3. PMID: 42562659.

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Publications

- Siddiqi OK, Birbeck GL, Kabwe C, Moonga G, Muwowo S, Simumba S, Mulenga C, Mwanza R, Musukuma K, Varma H, Shibemba A. [Minimally Invasive Tissue Sampling for Postmortem Diagnosis of Tuberculous Meningitis in Zambian Adults](#). Open Forum Infect Dis. 2026 Aug 7;13(8):ofag394. doi: 10.1093/ofid/ofag394. PMID: 42568733; PMCID: PMC13448058.
- Shay JES, Chi F, Tzouanas CN, Han S, Zhang X, Ten Hoeve J, Williams KJ, Neptun S, Sever T, Fuentes I, Bhatia SN, Calibasi-Kocal G, Vander Heiden MG, Shalek AK, Yilmaz ÖH. [Ketogenic diet mediates intestinal tumorigenesis through lipids not ketones](#). Nature. 2026 Aug;656(8127):474-483. doi: 10.1038/s41586-026-10779-y. Epub 2026 Jul 15. PMID: 42457955.
- Goto S, Deshpande V, Yilmaz ÖH, Goto N. [Lineage plasticity driven by GATA6 loss fuels colorectal cancer metastasis](#). Cell Stem Cell. 2026 Aug 6;33(8):1304-1323.e7. doi: 10.1016/j.stem.2026.05.013. Epub 2026 Jun 22. PMID: 42330962; PMCID: PMC13499791.
- Bulliard M, Perlov Y, Yilmaz ÖH, Shui B. [High-plasticity oncofetal cell states in early pre-metastatic colorectal cancer](#). Cancer Cell. 2026 Jul 13;44(7):1343-1345. doi: 10.1016/j.ccell.2026.05.011. Epub 2026 Jun 11. PMID: 42276051.
- Rinck DR, Tahan SR. [Histologic margin involvement by cutaneous basal cell carcinoma stroma: a retrospective cohort study for residual or recurrent carcinoma](#). J Clin Pathol. 2026 Mar 19;79(4):245-249. doi: 10.1136/jcp-2025-210475. PMID: 41577437.
- Chung HJ, Rinck DR, Chen LC, Tahan SR. [Quantitative Histopathologic Analysis of Pigmentation and Melanophage Distribution in Dermal Postinflammatory Hyperpigmentation](#). J Cutan Pathol. 2026 Sep 22. doi: 10.1111/cup.70216. Epub ahead of print. PMID: 42772788.
- Gochoco A, Tahan SR. [Delayed-Type Hypersensitivity With Prominent Langerhans Cell Microabscesses in Response to a Dendritic Cell/AML Fusion Vaccine](#). J Cutan Pathol. 2026 Sep 8. doi: 10.1111/cup.70212. Epub ahead of print. PMID: 42710899.
- Wang S, Park J. [Bedrock and cornerstones: histotechnology and the lasting foundations of spatial omics](#). J Histotechnol. 2026 Sep;49(3):129-130. doi: 10.1080/01478885.2026.2706370. Epub 2026 Sep 2. PMID: 42684182.

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Publications

- Todorova K, Sol S, Boncimino F, Clocchiatti A, Takagaki K, Gantumur E, Ruseva M, Cadieux M, Liu M, Neel VA, Colwell AS, Lian CG, Murphy GF, Carmeliet P, Mandinova A. [Fatty acid oxidation fuels mitochondrial respiration to drive epidermal stem cell fate and differentiation](#). *Nat Commun*. 2026 Aug 21;17(1):10037. doi: 10.1038/s41467-026-77023-z. PMID: 42768052; PMCID: PMC13594288.
- Kumar AM, Lai J, He LJ, Murphy GF, Imadojemu S. [Challenging diagnosis of drug reaction with eosinophilia and systemic symptoms \(DRESS\) in a patient with adult-onset Still disease](#). *JAAD Case Rep*. 2026 Jul 10;75:276-281. doi: 10.1016/j.jdcr.2026.06.067. PMID: 42621247; PMCID: PMC13487010.
- Pegoraro G, MacBean LF, Smith AR, Soanes DM, Smith RG, Imm J, Harvey J, Kouhsar M, Laroche V, Weymouth L, Castanho I, Hide W, Palmer L, Lett DJ, Robinson AC, Woodman N, McDade K, Boche D, Pishva E, Lunnon K. [Systemic infections alter cortical transcriptional signatures in Alzheimer's disease](#). *Neurobiol Aging*. 2026 Nov;167:155-167. doi: 10.1016/j.neurobiolaging.2026.06.010. Epub 2026 Jun 26. PMID: 42419155.
- Thoren K, Campbell L, Pello R, Iglesias MÁ, Pablos RM, Agulló C, Castro S, Hutcherson SM, Paciaroni NG. [Harmonizing M-protein analysis: an international, multi-center reproducibility study of mass spectrometry and evaluation of concordance to electrophoretic methods](#). *Clin Chem Lab Med*. 2026 Aug 11. doi: 10.1515/cclm-2026-0844. Epub ahead of print. PMID: 42573501.
- Abdalla AM, Ibrahim MN, Paciaroni NG, Mones JV, Merrill AE, Hutcherson SM. [Interpretive Challenges in Electrophoretic and Mass Spectrometric Methods for Monoclonal Gammopathy Detection in Patients with Cold Agglutinin Disease](#). *Clin Chem*. 2026 Aug 20:hvag106. doi: 10.1093/clinchem/hvag106. Epub ahead of print. PMID: 42621683.
- Amaya S, Schwartz SN, Kirby JE, Varma H. [Mycobacterium bovis BCG infection of the brain following intravesical BCG treatment](#). *ASM Case Rep*. 2026 Jul 17;2(5):e00186-25. doi: 10.1128/asmcr.00186-25. PMID: 42683360; PMCID: PMC13532233.
- Guo C, Fu R, Pan W, Li W, Li H, Rubin L, Lancia HH, Henderson J, Wang S, Nagalakshmi SU, de Amaral AA, Vlachos I, Abdi R, Tsokos MG, Tsokos GC. [Interleukin-12 Signaling Promotes Podocyte Senescence in Lupus Nephritis](#). *Arthritis Rheumatol*. 2026 Aug 24. doi: 10.1002/art.70305. Epub ahead of print. PMID: 42635289

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Publications

- Kirby JE, Arnaout R. [What's not to learn? AI meets parasitology](#). J Clin Microbiol. 2026 Jan 14;64(1):e0145125. doi: 10.1128/jcm.01451-25. Epub 2025 Dec 8. PMID: 41358779; PMCID: PMC12802280.
- Nguyen P, Couch J, Bansal R, Morgan A, Tam C, Li M, Arnaout R, Arnaout R. [Comparing frameworks for similarity-aware generalized entropy \(sentropy\)](#). Phys Rev E. 2026 May;113(5-2):055305. doi: 10.1103/n2s3-2g85. PMID: 42316652.
- Kirby JE, Arnaout R. [Why are we doing this alone? A collaborative framework for LDT development and validation](#). J Clin Microbiol. 2026 Apr 8;64(4):e0186725. doi: 10.1128/jcm.01867-25. Epub 2026 Mar 19. PMID: 41854436; PMCID: PMC13059807.
- Couch JD, Arnaout R, Arnaout R. [Beyond Size and Class Balance: Alpha as a New Dataset Quality Metric for Deep Learning. Bioengineering \(Basel\)](#). 2026 Jul 24;13(8):854. doi: 10.3390/bioengineering13080854. PMID: 42649744; PMCID: PMC13510075.