

**UNM Department of Pathology: Faculty Publications for Calendar Year 2023 (January–December) Sorted by Divisions**

**ANATOMIC PATHOLOGY**

- **Shweta Agarwal, M.D.**
  - Esce A, Redemann JP, Olson GT, Hanson JA, Agarwal S, Yenwongfai L, Ferreira J, Boyd NH, Bocklage T, Martin DR. Lymph Node Metastases in Papillary Thyroid Carcinoma can be Predicted by a Convolutional Neural Network: a Multi-Institution Study. *Ann Otol Rhinol Laryngol*. 2023 Mar 10;34894231158464. doi: 10.1177/00034894231158464. Epub ahead of print. PMID: 36896865.
  - Nielson KJ, Lorenzo G, Agarwal S. Salivary Duct Carcinoma Arising in a Warthin Tumor of the Parotid Gland: A Rare Case Report with Review of Literature and PD-L1 Expression. *Head Neck Pathol*. 2023 Oct 13. doi: 10.1007/s12105-023-01587-1. Epub ahead of print. PMID: 37831429.
  - Richards R, Agarwal S. Atypical Squamous Verrucous Lesions of the Oral Cavity: Challenges in Interpretation of Small Incisional Biopsies. *Head Neck Pathol*. 2023 May 19. doi: 10.1007/s12105-023-01558-6. Epub ahead of print. PMID: 37204686.
- **Joshua A. Hanson, M.D.**
  - Brayer KJ, Hanson JA, Cingam S, Martinez C, Ness SA, Rabinowitz I. The inflammatory response of human pancreatic cancer samples compared to normal controls. *PLoS One*. 2023 Nov 1;18(11):e0284232. doi: 10.1371/journal.pone.0284232. PMID: 37910468; PMCID: PMC10619777.
  - Esce AR, Baca AL, Redemann JP, Rebbe RW, Schultz F, Agarwal S, Hanson JA, Olson GT, Martin DR, Boyd NH. Predicting nodal metastases in squamous cell carcinoma of the oral tongue using artificial intelligence. *Am J Otolaryngol*. 2024 Jan-Feb;45(1):104102. doi: 10.1016/j.amjoto.2023.104102. Epub 2023 Nov 5. PMID: 37948827.
  - Esce A, Redemann JP, Olson GT, Hanson JA, Agarwal S, Yenwongfai L, Ferreira J, Boyd NH, Bocklage T, Martin DR. Lymph Node Metastases in Papillary Thyroid Carcinoma can be Predicted by a Convolutional Neural Network: a Multi-Institution Study. *Ann Otol Rhinol Laryngol*. 2023 Mar 10;34894231158464. doi: 10.1177/00034894231158464. Epub ahead of print. PMID: 36896865.
  - Ray AL, Saunders AS, Nofchissey RA, Reidy MA, Kamal M, Lerner MR, Fung KM, Lang ML, Hanson JA, Guo S, Urdaneta-Perez MG, Lewis SE, Cloyde M, Morris KT. G-CSF Is a Novel Mediator of T-Cell Suppression and an Immunotherapeutic Target for Women with Colon Cancer. *Clin Cancer Res*. 2023 Jun 1;29(11):2158-2169. doi: 10.1158/1078-0432.CCR-22-3918. PMID: 36951682; PMCID: PMC10239359.
- **Nancy Joste, M.D.**
  - Lipscomb MF, Joste NE, Markwood M, Bailey DN, Hansel DE, Jorda M, Leonard DGB, Powell D, Rojiani AM, Shin SJ, Thor A. Gender differences in appointments to pathology department interim chair positions and subsequent advancement to permanent chair positions. *Acad Pathol*. 2023 Apr 24;10(2):100082. doi: 10.1016/j.acpath.2023.100082. PMID: 37168284; PMCID: PMC10164771.
  - Wheeler CM, Torrez-Martinez NE, Torres-Chavolla E, Parvu V, Andrews JC, DU R, Robertson M, Joste NE, Cuzick J; New Mexico HPV Pap Registry Steering Committee. Comparing the performance of two HPV assays for a new use

indication: a real-world evidence-based evaluation in the United States. Am J Obstet Gynecol. 2023 Oct 6:S0002-9378(23)00730-5. doi: 10.1016/j.ajog.2023.09.100. Epub ahead of print. PMID: 37806613.

- **David R. Martin, M.D.**

- Esce A, Redemann JP, Olson GT, Hanson JA, Agarwal S, Yenwongfai L, Ferreira J, Boyd NH, Bocklage T, Martin DR. Lymph Node Metastases in Papillary Thyroid Carcinoma can be Predicted by a Convolutional Neural Network: a Multi-Institution Study. Ann Otol Rhinol Laryngol. 2023 Mar 10:34894231158464. doi: 10.1177/00034894231158464. Epub ahead of print. PMID: 36896865.
- Kim H, Villareal LB, Liu Z, Haneef M, Falcon DM, Martin DR, Lee HJ, Dame MK, Attili D, Chen Y, Varani J, Spence JR, Kovbasnjuk O, Colacino JA, Lyssiotis CA, Lin HC, Shah YM, Xue X. Transferrin Receptor-Mediated Iron Uptake Promotes Colon Tumorigenesis. Adv Sci (Weinh). 2023 Jan 26:e2207693. doi: 10.1002/advs.202207693. Epub ahead of print. PMID: 36703617.
- Liu Z, Arcos M, Martin DR, Xue X. Myeloid FTH1 Deficiency Protects Mice From Colitis and Colitis-associated Colorectal Cancer via Reducing DMT1-Imported Iron and STAT3 Activation. Inflamm Bowel Dis. 2023 Feb 6:izad009. doi: 10.1093/ibd/izad009. Epub ahead of print. PMID: 36745026.
- Liu Z, Villareal L, Goodla L, Kim H, Falcon DM, Haneef M, Martin DR, Zhang L, Lee HJ, Kremer D, Lyssiotis CA, Shah YM, Lin HC, Lin HK, Xue X. Iron promotes glycolysis to drive colon tumorigenesis. Biochim Biophys Acta Mol Basis Dis. 2023 Aug 12;1869(8):166846. doi: 10.1016/j.bbadis.2023.166846. Epub ahead of print. PMID: 37579983.

- **Aysha Mubeen, M.D.**

- Mubeen A, Parra-Herran C. FOXL2: a gene central to ovarian function. J Clin Pathol. 2023 Oct 5:jcp-2023-208827. doi: 10.1136/jcp-2023-208827. Epub ahead of print. PMID: 37798106.

- **Karen SantaCruz, M.D.**

- Divani AA, Salazar P, Ikram HA, Taylor E, Wilson CM, Yang Y, Mahmoudi J, Seletskaya A, SantaCruz KS, Torbey MT, Liebler EJ, Bragina OA, Morton RA, Bragin DE. Non-Invasive Vagus Nerve Stimulation Improves Brain Lesion Volume and Neurobehavioral Outcomes in a Rat Model of Traumatic Brain Injury. J Neurotrauma. 2023 Jul;40(13-14):1481-1494. doi: 10.1089/neu.2022.0153. Epub 2023 May 17. PMID: 36869619; PMCID: PMC10294566.

- **Jain Zhou, M.D., Ph.D.**

- Sukov WR, Zhou J, Geiersbach KB, Keeney GL, Carter JM, Schoolmeester JK. Frequency of HER2 protein overexpression and HER2 gene amplification in endometrial clear cell carcinoma. Hum Pathol. 2023 Jul;137:94-101. doi: 10.1016/j.humpath.2023.04.009. Epub 2023 Apr 23. PMID: 37094656.
- Torrez MM, Alba FM, Zhou J. A PAX-8-Positive Female Urethral Adenocarcinoma, Intestinal-Type: A Case Report with Diagnostic Challenges and a Review of the Literature. Case Rep Pathol. 2023 Feb 11;2023:8323821. doi: 10.1155/2023/8323821. PMID: 36820320; PMCID: PMC9938771

- **Heather Edgar, Ph.D.**
  - Appel NS, Edgar HJH, Berry SD, Hunley K. Error and bias in race and ethnicity descriptions in medical examiner records in New Mexico: Consequences for understanding mortality among Hispanic/Latinos. *Forensic Sci Int Synerg.* 2023 Jun 8;7:100338. doi: 10.1016/j.fsisyn.2023.100338. PMID: 37409238; PMCID: PMC10319202.
- **Heather S. Jarell, M.D.**
  - Elifritz J and Jarrell H. (2023). 'Developments in Postmortem Imaging.' Susan Ely and James Gill. *Principles of Forensic Pathology From Investigation to Certification.* San Diego, CA. Pgs. 453-523.
- **Sarah Lathrop, D.V.M, Ph.D.**
  - Delahoy MJ, Shah HJ, Weller DL, Ray LC, Smith K, McGuire S, Trevejo RT, Scallan Walter E, Wymore K, Rissman T, McMillian M, Lathrop S, LaClair B, Boyle MM, Harris S, Zablotsky-Kufel J, Houck K, Devine CJ, Lau CE, Tauxe RV, Bruce BB, Griffin PM, Payne DC. Preliminary Incidence and Trends of Infections Caused by Pathogens Transmitted Commonly Through Food - Foodborne Diseases Active Surveillance Network, 10 U.S. Sites, 2022. *MMWR Morb Mortal Wkly Rep.* 2023 Jun 30;72(26):701-706.
  - Healy JM, Ray L, Tack DM, Eikmeier D, Tobin-D'Angelo M, Wilson E, Hurd S, Lathrop S, McGuire SM, Bruce BB. Modelling counterfactual incidence during the transition towards culture-independent diagnostic testing. *Int J Epidemiol.* 2023 Oct 11:dyad133. doi: 10.1093/ije/dyad133. Epub ahead of print. PMID: 37820050.
  - Lathrop SL, Wiest PW, Andrews SW, Elifritz J, Price JP, Mlady GW, Zumwalt RE, Gerrard CY, Poland VL, Nolte KB. Can computed tomography replace or supplement autopsy? *J Forensic Sci.* 2023 Mar;68(2):524-535. doi: 10.1111/1556-4029.15217. Epub 2023 Feb 8. PMID: 36752321.
  - Marder EP, Cui Z, Bruce BB, Richardson LC, Boyle MM, Cieslak PR, Comstock N, Lathrop S, Garman K, McGuire S, Olson D, Vugia DJ, Wilson S, Griffin PM, Medus C. Risk Factors for Non-O157 Shiga Toxin-Producing *Escherichia coli* Infections, United States. *Emerg Infect Dis.* 2023 Jun;29(6):1183-1190. doi: 10.3201/eid2906.221521. PMID: 37209671.

## **HEMATOPATHOLOGY AND MOLECULAR GENETIC PATHOLOGY**

- **Daniel Babu, M.D.**
  - Foucar K, editor. *Diagnostic Pathology: Blood and Bone Marrow 3<sup>rd</sup> Edition.* Elsevier; 2023 July. ISBN: 9780323878784. Contributing authors: D Babu, D Chabot-Richards, B Coffman, K Culbreath, D Czuchlewski, K Karner, M Rollins-Raval, M Vasef, and QY Zhang.
- **Devon Chabot-Richards, M.D.**
  - Al-Ghamdi YA, Lake J, Bagg A, Thakral B, Wang SA, Bueso-Ramos C, Masarova L, Verstovsek S, Rogers HJ, Hsi ED, Gralowski JH, Chabot-Richards D, George TI, Rets A, Hasserjian RP, Weinberg OK, Parilla M, Arber DA, Padilla O, Orazi A, Tam W. Triple-Negative Primary Myelofibrosis: A Bone Marrow Pathology Group Study. *Mod Pathol.* 2023 Jan 10;36(3):100016. doi: 10.1016/j.modpat.2022.100016. Epub ahead of print. PMID: 36788093.

- Foucar K, editor. Diagnostic Pathology: Blood and Bone Marrow 3<sup>rd</sup> Edition. Elsevier; 2023 July. ISBN: 9780323878784. Contributing authors: D Babu, D Chabot-Richards, B Coffman, K Culbreath, D Czuchlewski, K Karner, M Rollins-Raval, M Vasef, and QY Zhang.
- Harris CK, Chen Y, Alston EL, Brown A, Chabot-Richards D, Dintzis SM, Graber ML, Jackups R Jr, Lomo LC, Laudadio J, Markwood PS, Nielson KJ, Samedi V, Sampson B, Haspel RL, Zafar N, Montone KT, Childs J, White KL, Heher YK. The next phase in patient safety education: Towards a standardized, tools-based pathology patient safety curriculum: A call to action from the Association of Pathology Chairs' Residency Program Directors Section Training Residents in Patient Safety Workgroup. Acad Pathol. 2023 Jun 2;10(2):100081. doi: 10.1016/j.acpath.2023.100081. PMID: 37313035; PMCID: PMC10258240.
- **David Czuchlewski, M.D.**
  - Foucar K, editor. Diagnostic Pathology: Blood and Bone Marrow 3<sup>rd</sup> Edition. Elsevier; 2023 July. ISBN: 9780323878784. Contributing authors: D Babu, D Chabot-Richards, B Coffman, K Culbreath, D Czuchlewski, K Karner, M Rollins-Raval, M Vasef, and QY Zhang.
- **Kathryn Foucar, M.D.**
  - Foucar K, Bagg A, Bueso-Ramos CE, George T, Hasserjian RP, Hsi ED, Orazi A, Tam W, Wang SA, Weinberg OK, Arber DA; Bone Marrow Pathology Group. Guide to the Diagnosis of Myeloid Neoplasms: A Bone Marrow Pathology Group Approach. Am J Clin Pathol. 2023 Jun 30:aqad069. doi: 10.1093/ajcp/aqad069. Epub ahead of print. PMID: 37391178.
  - Foucar K, editor. Diagnostic Pathology: Blood and Bone Marrow 3<sup>rd</sup> Edition. Elsevier; 2023 July. ISBN: 9780323878784. Contributing authors: D Babu, D Chabot-Richards, B Coffman, K Culbreath, D Czuchlewski, K Karner, M Rollins-Raval, M Vasef, and QY Zhang.
  - Kirtek T, Chen W, Laczko D, Bagg A, Koduru P, Foucar K, Venable E, Nichols M, Rogers HJ, Tam W, Orazi A, Hsi ED, Hasserjian RP, Wang SA, Arber DA, Weinberg OK. Acute leukemias with complex karyotype show a similarly poor outcome independent of mixed, myeloid or lymphoblastic immunophenotype: A study from the Bone Marrow Pathology Group. Leuk Res. 2023 May 10;130:107309. doi: 10.1016/j.leukres.2023.107309. Epub ahead of print. PMID: 37210875.
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- **Rama Gullapalli, M.D., Ph.D.**
  - Garcia MM, Romero AS, Merkle SD, Meyer-Hagen JL, Forbes C, Hayek EE, Sciezka DP, Templeton R, Gonzalez-Estrella J, Jin Y, Gu H, Benavidez A, Hunter RP, Lucas S, Herbert G, Kim KJ, Cui JY, Gullapalli R, In JG, Campen MJ, Castillo EF. In Vivo Tissue Distribution of Microplastics and Systemic Metabolomic Alterations After

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  - Scieszka D, Jin Y, Noor S, Barr E, Garcia M, Begay J, Herbert G, Hunter RP, Bhaskar K, Kumar R, Gullapalli R, Bolt A, McCormick MA, Bleske B, Gu H, Campen MJ. Biomass smoke inhalation promotes neuroinflammatory and metabolomic temporal changes in the hippocampus of female mice. *J Neuroinflammation*. 2023 Aug 22;20(1):192. doi: 10.1186/s12974-023-02874-y. PMID: 37608305; PMCID: PMC10464132.
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  - **Marian A. Rollins-Raval, M.D., M.P.H.**
    - Foucar K, editor. *Diagnostic Pathology: Blood and Bone Marrow 3<sup>rd</sup> Edition*. Elsevier; 2023 July. ISBN: 9780323878784. Contributing authors: D Babu, D Chabot-Richards, B Coffman, K Culbreath, D Czuchlewski, K Karner, M Rollins-Raval, M Vasef, and QY Zhang.
    - Silva FD, Burnett AE, Padmanabhan A, Rollins-Raval MA, Splinter NP, Desai MJ. Cerebral venous sinus thrombosis associated with SRA-negative heparin-induced thrombocytopenia: case report. *Thromb J*. 2023 Apr 21;21(1):46. doi: 10.1186/s12959-023-00490-7. PMID: 37085884; PMCID: PMC10122294.
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  - **Mohammad A. Vasef, M.D.**
    - Foucar K, editor. *Diagnostic Pathology: Blood and Bone Marrow 3<sup>rd</sup> Edition*. Elsevier; 2023 July. ISBN: 9780323878784. Contributing authors: D Babu, D Chabot-Richards, B Coffman, K Culbreath, D Czuchlewski, K Karner, M Rollins-Raval, M Vasef, and QY Zhang.
    - Vasef M and Auerbach A. *Diagnostic Pathology: Molecular Oncology 3<sup>rd</sup> Edition*. Elsevier; 2023 December. ISBN: 9780443112201.
  - **Qian-Yun Zhang, M.D., Ph.D.**
    - Foucar K, editor. *Diagnostic Pathology: Blood and Bone Marrow 3<sup>rd</sup> Edition*. Elsevier; 2023 July. ISBN: 9780323878784. Contributing authors: D Babu, D Chabot-Richards, B Coffman, K Culbreath, D Czuchlewski, K Karner, M Rollins-Raval, M Vasef, and QY Zhang.
    - Rivera D, Cui W, Gao J, Peker D, Zhang QY, Dewar R, Qiu L, Konoplev S, Hu Z, Sasaki K, Hu A, E S, Liu M, Fang H, Wang W, Tang G, Apperley JF, Hochhaus A, Cortes JE,

Khoury JD, Medeiros LJ, Jabbour E, Hu S. Aleukemic Chronic Myeloid Leukemia without Neutrophilia and Thrombocytosis at Initial Presentation: a Report from the BCR::ABL1 Pathology Group. *Mod Pathol*. 2023 Dec 15:100406. doi: 10.1016/j.modpat.2023.100406. Epub ahead of print. PMID: 38104892

## **CLINICAL PATHOLOGY AND LABORATORY MEDICINE**

- **Richard A. Marlar, Ph.D.**
  - Marlar RA. Laboratory Evaluation of Antithrombin, Protein C, and Protein S. *Semin Thromb Hemost*. 2023 Mar 20. doi: 10.1055/s-0043-1764468. Epub ahead of print. PMID: 36940716.
  - Marlar RA. Laboratory Evaluation of Thrombophilia. *Methods Mol Biol*. 2023;2663:177-201. doi: 10.1007/978-1-0716-3175-1\_10. PMID: 37204710.
- **Nathan D. Nielsen, M.D.**
  - Antonucci E, Polo T, Giovini M, Girardis M, Martin-Loeches I, Nielsen ND, Lozsán FJ, Ferrer R, Lakbar I, Leone M. Refractory septic shock and alternative wordings: A systematic review of literature. *Journal of Critical Care*, 2023;75(1):1542-58.
  - David S, Russell L, Castro P, van de Louw A, Zafrani L, Pirani T, Nielsen ND, Mariotte E, Ferreyro BL, Kielstein JT, Montini L, Brignier AC, Kochanek M, Cid J, Robba C, Martin-Loeches I, Ostermann M, Juffermans NP for the Nine-I Investigators. Research priorities for therapeutic plasma exchange in critically ill patients. *Intensive Care Medicine Experimental*, 2023;11(1):26.
  - Leone M, Juffermans N, and Nielsen ND. Ten Tips on Fever. *Intensive Care Medicine*, 2023;49:587-590. <https://doi.org/10.1007/s00134-023-07049-0>
  - Mecklenburg A, Martinez MM, Nielsen ND, Grossenbacher-Eggmann S, Boulanger C, Duška F. ICU Routines and Bundles of Care. In: Duška, F., Al-Haddad, M., Cecconi, M. (eds) *Intensive Care Fundamentals: Lessons from the ICU*. Springer, Cham., 2023. [https://doi.org/10.1007/978-3-031-21991-7\\_2](https://doi.org/10.1007/978-3-031-21991-7_2)
  - Milano V, Hurt J, Nielsen ND. The standard of care is standard for a reason: Commentary on "Optimal dosing of heparin for prophylactic anticoagulation in critically ill COVID-19 patients: A systematic review and Meta-analysis of randomized clinical trials". *J Crit Care*. 2023 May 25;77:154345. doi: 10.1016/j.jcrc.2023.154345. Epub ahead of print. PMID: 37244208; PMCID: PMC10209671.
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  - Nielsen KJ, Lorenzo G, Agarwal S. Salivary Duct Carcinoma Arising in a Warthin Tumor of the Parotid Gland: A Rare Case Report with Review of Literature and PD-L1

Expression. *Head Neck Pathol.* 2023 Oct 13. doi: 10.1007/s12105-023-01587-1. Epub ahead of print. PMID: 37831429.

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- **Jay S. Raval, M.D.**
  - Abou-Ismaïl MY, Zhang C, Presson AP, Chaturvedi S, Antun AG, Farland A, Woods R, Metjian A, Park Y, de Ridder G, Gibson B, Kasthuri RS, Liles DK, Akwaa F, Clover T, Baumann Kreuziger L, Sridharan M, Go RS, McCrae KR, Upreti HV, Gangaraju R, Kocher NK, Zheng XL, Raval JS, Masias C, Cataland SR, Johnson AD, Davis E, Evans MD, Mazepa M, Lim MY. A Descriptive Analysis of Fatal Outcomes in Immune Thrombotic Thrombocytopenic Purpura in the USTMA TTP Registry. *Blood Adv.* 2023 Dec 15:bloodadvances.2023010807. doi: 10.1182/bloodadvances.2023010807. Epub ahead of print. PMID: 38100454.
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  - Carson JL, Brooks MM, Hébert PC, Goodman SG, Bertolet M, Glynn SA, Chaitman BR, Simon T, Lopes RD, Goldsweig AM, DeFilippis AP, Abbott JD, Potter BJ, Carrier

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**Footnote:**

The “UNM Department of Pathology: Faculty Publications for Calendar Year January – December 2023 Sorted by Divisions” was prepared by Abigail Merhege and Nancy Risenhoover, under the direction of Burt Martinez, Department Administrator.

Full Calendar Year 2023 January – December Publications are defined thus:

- Includes e-publications in January – June 2023 and print publications in January – December 2023.
- If an article was e-published prior to January 2023, and print published in January – December 2023, then the article is excluded from the January – December 2023 publication list.
- Includes books and book chapters published in January – December 2023
- Does not include abstracts.
- Does not include patents.
- Does not include presentations, lectures, or posters.