

Resident Publications

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Spotlight:

1. Johnson, E.C.B., Dammer, E.B., Duong, D.M., Ping, L., Zhou, M., Yin, L., Higginbotham, L.A., **Guajardo, A.**, White, B., Troncoso, J.C., Thambisetty, M., Montine, T.J., Lee, E.B., Trojanowski, J.Q., Beach, T.G., Reiman, E.M., Haroutunian, V., Wang, M., Schadt, E., Zhang, B., Dickson, D.W., Ertekin-Taner, N., Golde, T.E., Petyuk, V.A., De Jager, P.L., Bennett, D.A., Wingo, T.S., Rangaraju, S., Hajjar, I., Shulman, J.M., Lah, J.J., Levey, A.I., Seyfried, N.T. Large-scale proteomic analysis of Alzheimer's disease brain and cerebrospinal fluid reveals early changes in energy metabolism associated with microglia and astrocyte activation (2020) **Nature Medicine**, 26 (5), pp. 769-780.
2. **Stein, J.E.**, Lipson, E.J., Cottrell, T.R., Forde, P.M., Anders, R.A., Cimino-Mathews, A., Thompson, E.D., Allaf, M.E., Yarchoan, M., Feliciano, J., Wang, H., Jaffee, E.M., Pardoll, D.M., Topalian, S.L., Taube, J.M. Pan-tumor pathologic scoring of response to PD-(L)1 blockade (2020) **Clinical Cancer Research**, 26 (3), pp. 545-551.
3. **Nix, J.S.**, Blakeley, J., Rodriguez, F.J. An update on the central nervous system manifestations of neurofibromatosis type 1 (2020) **Acta Neuropathologica**, 139 (4), pp. 625-641.
4. **Ware, A.D.**, Murdock, T., Voltaggio, L., Windon, A.L., Troncoso, J.C., Hruban, R.H., White, M.J. The "Race" Toward Diversity, Inclusion, and Equity in Pathology: The Johns Hopkins Experience(2019) **Academic Pathology**, 6, .
5. **White, M.**, Adams, L.T., Phan, C., Erdag, G., Totten, M., Lee, R., Lu, X., Mehta, S., Miller, L.S., Zhang, S.X. Disseminated sporotrichosis following iatrogenic immunosuppression for suspected pyoderma gangrenosum (2019) *The Lancet Infectious Diseases*, 19 (11), pp. e385-e391.
6. **Giraldo, N.A.**, Nguyen, P., Engle, E.L., Kaunitz, G.J., Cottrell, T.R., Berry, S., Green, B., Soni, A., Cuda, J.D., Stein, J.E., Sunshine, J.C., Succaria, F., Xu, H., Ogurtsova, A., Danilova, L., Church, C.D., Miller, N.J., Fling, S., Lundgren, L., Ramchurren, N., Yearley, J.H., Lipson, E.J., Cheever, M., Anders, R.A., Nghiem, P.T., Topalian, S.L., Taube, J.M. Multidimensional, quantitative assessment of PD-1/PD-L1 expression in patients with Merkel cell carcinoma and association with response to pembrolizumab 11 *Medical and Health Sciences 1107 Immunology*(2018) **Journal for ImmunoTherapy of Cancer**, 6 (1), art. no. 99, .
7. Forde, P.M., Chaft, J.E., Smith, K.N., Anagnostou, V., **Cottrell, T.R.**, Hellmann, M.D., Zahurak, M., Broderick, S., Yang, S.C., Jones, D.R., Battafarano, R.J., Velez, M.J., Rekhtman, N., Olah, Z., Verde, F., Naidoo, J., Marrone, K.A., Guo, H., Sidhom, J.-W., Zhang, J., Caushi, J.X., Chan, H.Y., Scharpf, R.B., White, J., Gabrielson, E., Wang, H., Rosner, G.L., Rusch, V., Wolchok, J.D., Merghoub, T., Taube, J.M., Velculescu, V.E., Topalian, S.L., Brahmer, J.R., Pardoll, D.M. Neoadjuvant PD-1 blockade in resectable lung cancer (2018) **New England Journal of Medicine**, 378 (21), pp. 1976-1986.
8. **Haffner, M.C.**, Esopi, D.M., Chaux, A., Gürel, M., Ghosh, S., Vaghasia, A.M., Tsai, H., Kim, K., Castagna, N., Lam, H., Hicks, J., Wyhs, N., Biswal Shinohara, D., Hurley, P.J., Simons, B.W., Schaeffer, E.M., Lotan, T.L., Isaacs, W.B., Netto, G.J., De Marzo, A.M., Nelson, W.G., An, S.S., Yegnasubramanian, S. AIM1 is an actin-binding protein that suppresses cell migration and micrometastatic dissemination (2017) **Nature Communications**, 8 (1), art. no. 142, .
9. **Thompson, E.D.**, Zahurak, M., Murphy, A., Cornish, T., Cuka, N., Abdelfatah, E., Yang, S., Duncan, M., Ahuja, N., Taube, J.M., Anders, R.A., Kelly, R.J. Patterns of PD-L1 expression and CD8 T cell infiltration in gastric adenocarcinomas and associated immune stroma (2016) **Gut**, 66 (5), pp. 794-801.

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10. **Rodić N**, Steranka JP, Makohon-Moore A, Moyer A, Shen P, Sharma R, Kohutec ZA, Huang CR, Ahn D, Mita P, Taylor MS, Barker NJ, Hruban RH, Iacobuzio-Donahue CA, Boeke JD, Burns KH. Retrotransposon Insertions in the Clonal Evolution of Pancreatic Ductal Adenocarcinoma. **Nat Med**, 2015 Sep;21(9):1060-4.
11. **Morris, M.**, Knudsen, G.M., Maeda, S., Trinidad, J.C., Ioanoviciu, A., Burlingame, A.L., Mucke, L. Tau post-translational modifications in wild-type and human amyloid precursor protein transgenic mice (2015) **Nature Neuroscience**, 18 (8), pp. 1183-1189.

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- **Allison, D.B., Vandenbussche, C.J.** A Review of Urine Ancillary Tests in the Era of the Paris System (2020) *Acta Cytologica*, 64 (1-2), pp. 182-192.
- Gorbounov, M., Carleton, N.M., **Asch-Kendrick, R.J.**, Xian, L., **Rooper, L.**, Chia, L., **Cimino-Mathews, A.**, Cope, L., Meeker, A., Stearns, V., Veltri, R.W., Bae, Y.K., Resar, L.M.S. High mobility group A1 (HMGA1) protein and gene expression correlate with ER-negativity and poor outcomes in breast cancer (2020) *Breast Cancer Research and Treatment*, 179 (1), pp. 25-35.
- Sabharwal, S., Ahlawat, S., Levin, A.S., Meyer, C.F., **Brooks, E.**, Ligon, J., Morris, C.D. Desmoid tumor mimics local recurrence of extremity sarcoma on MRI (2020) *Journal of Surgical Oncology* (In Press).
- **Bynum, J.**, Batista, D., Xian, R., Xing, D., Eshleman, J.R., Ronnett, B.M., Zheng, G. Tetraploid Partial Hydatidiform Moles: Molecular Genotyping and Determination of Parental Contributions (2020) *Journal of Molecular Diagnostics*, 22 (1), pp. 90-100.
- **Cocks, M.**, Chau, A., Jenson, E.G., **Miller, J.A.**, Rodriguez Pena, M.D.C., **Tregnago, A.C.**, **Taheri, D.**, Eich, M.-L., **Sharma, R.**, **Vang, R.**, Netto, G.J. Immune checkpoint status and tumor microenvironment in vulvar squamous cell carcinoma (2020) *Virchows Archiv*, .
- **Cocks, M.**, Chau, A., Jenson, E.G., **Miller, J.A.**, Rodriguez Pena, M.D.C., Tregnago, A.C., Taheri, D., Eich, M.-L., Sharma, R., Vang, R., Netto, G.J. Immune checkpoint status and tumor microenvironment in vulvar squamous cell carcinoma (2020) *Virchows Archiv*, .
- Sullivan, H.H., Heaphy, C.M., Kulac, I., **Cuka, N.**, Lu, J., Barber, J.R., **de Marzo, A.M.**, Lotan, T.L., Joshu, C.E., Sfanos, K.S. High extratumoral mast cell counts are associated with a higher risk of adverse prostate cancer outcomes (2020) *Cancer Epidemiology Biomarkers and Prevention*, 29 (3), pp. 668-675.
- Johnson, E.C.B., Dammer, E.B., Duong, D.M., Ping, L., Zhou, M., Yin, L., Higginbotham, L.A., **Guajardo, A.**, White, B., Troncoso, J.C., Thambisetty, M., Montine, T.J., Lee, E.B., Trojanowski, J.Q., Beach, T.G., Reiman, E.M., Haroutunian, V., Wang, M., Schadt, E., Zhang, B., Dickson, D.W., Ertekin-Taner, N., Golde, T.E., Petyuk, V.A., De Jager, P.L., Bennett, D.A., Wingo, T.S., Rangaraju, S., Hajjar, I., Shulman, J.M., Lah, J.J., Levey, A.I., Seyfried, N.T. Large-scale proteomic analysis of Alzheimer's disease brain and cerebrospinal fluid reveals early changes in energy metabolism associated with microglia and astrocyte activation (2020) *Nature Medicine*, 26 (5), pp. 769-780.
- **Haffner, M.C.**, Salles, D.C., Gao, G., **Epstein, J.I.** Gleason pattern 4 with cribriform morphology on biopsy is associated with adverse clinicopathological findings in a prospective radical prostatectomy cohort (2020) *Human Pathology*, 98, pp. 74-80.
- Pezhouh, M.K., Burgart, L.J., Chiu, K., Cohen, D.A., **Hutchings, D.A.**, Sanderson, S.O., Shirazi, M., Stanich, P.P., Vandenbussche, C.J., Voltaggio, L., Willhoit, E.D., Xue, Y., Arnold, C.A.

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- **Jones, R.**, Dale, F., Fite, J.J., Cowan, M.L., Williamson, B., DeLuca, J., VandenBussche, C.J. Endocervical glandular involvement is associated with an increased detection rate of high-grade squamous intraepithelial lesions on the Papanicolaou test (2020) *Journal of the American Society of Cytopathology*, 9 (3), pp. 137-145.
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- Lally, K., **Kruse, R.L.**, Smetana, H., Davis, R., Roots, A., Marshall, C., Ness, P.M., DeZern, A.E., Gladstone, D.E., Brennan, D.C., Desai, N.M., **Tobian, A.A.R.**, Bloch, E.M., Gehrie, E.A. Isohemagglutinin titrating performed on an automated solid-phase and hemagglutinin-based analyzer is comparable to results obtained by manual gel testing (2020) *Transfusion*, 60 (3), pp. 628-636.
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- Zhang, Y., Byrnes, K., Lam-Himlin, D., Pittman, M., Pezhouh, M., Gonzalez, R.S., Alruwaili, Z., **Larman, T.**, Miller, J.A., Matoso, A., Oshima, K., **Epstein, J.I.**, Montgomery, E.A., Voltaggio, L. Gastrointestinal Malakoplakia: Clinicopathologic Analysis of 26 Cases (2020) *American Journal of Surgical Pathology*, .
- **Morris, M.**, **Kwon, R.**, Chen, L. Pediatric idiopathic basal ganglia calcification and spherocytosis with chromosome 8p11 deletion (2020) *Journal of Neuropathology and Experimental Neurology*, 79 (2), pp. 238-241.
- Redding, J., **Morris, M.**, Holdhoff, M., **Nauen, D.W.** Cerebellar melanoneurons: An overlooked and potentially important cell population (2020) *Journal of Neuropathology and Experimental Neurology*, 79 (2), pp. 242-243.
- **Nix, J.S.**, Blakeley, J., Rodriguez, F.J. An update on the central nervous system manifestations of neurofibromatosis type 1 (2020) *Acta Neuropathologica*, 139 (4), pp. 625-641.
- **Rooper, L.M.**, **Bynum, J.P.**, Miller, K.P., Lin, M.T., Gagan, J., Thompson, L.D.R., **Bishop, J.A.** Recurrent DICER1 Hotspot Mutations in Malignant Thyroid Gland Teratomas: Molecular Characterization and Proposal for a Separate Classification (2020) *American Journal of Surgical Pathology*, art. no. 0000143, .
- Varghese, A., Fader, A., Wilbur, M., **Salimian, K.**, Azadi, J.R., Johnson, P.T., Stone, R. Peritoneal tuberculosis: The great mimicker (2020) *International Journal of Gynecological Cancer*, 30 (4), pp. 546-550.
- **Shabihkhani, M.**, Simpson, J.F., **White, M.J.**, **Cimino-Mathews, A.**, Argani, P. Artfactual Displacement of Ductal Carcinoma in Situ (ADDCIS) (Toothpaste Effect): A Mimicker of Invasive Ductal Carcinoma (2020) *American Journal of Surgical Pathology*, 44 (1), pp. 120-128
- Pezhouh, M.K., Rezaei, M.K., **Shabihkhani, M.**, Ghosh, A., Belchis, D., Montgomery, E.A., Voltaggio, L. Clinicopathologic study of calcifying fibrous tumor of the gastrointestinal tract: a case series (2017) *Human Pathology*, 62, pp. 199-205. Byrnes, K., **Khararjian, A.**, Mannan, A.A.S.R., Arnold, M., Voltaggio, L. Young-Onset Ischemic Colitis: A Condition of Elusive Etiology Frequently

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- **Stein, J.E.**, Lipson, E.J., **Cottrell, T.R.**, Forde, P.M., Anders, R.A., **Cimino-Mathews, A.**, **Thompson, E.D.**, Allaf, M.E., Yarchoan, M., Feliciano, J., Wang, H., Jaffee, E.M., Pardoll, D.M., Topalian, S.L., **Taube, J.M.** Pan-tumor pathologic scoring of response to PD-(L)1 blockade (2020) *Clinical Cancer Research*, 26 (3), pp. 545-551.
- Djomehri, S.I., Gonzalez, M.E., da Veiga Leprevost, F., Tekula, S.R., Chang, H.-Y., **White, M.J.**, **Cimino-Mathews, A.**, Burman, B., Basrur, V., Argani, P., Nesvizhskii, A.I., Kleer, C.G. Quantitative proteomic landscape of metaplastic breast carcinoma pathological subtypes and their relationship to triple-negative tumors (2020) *Nature Communications*, 11 (1), art. no. 1723, .
- Dietrick, B., Friedes, C., **White, M.J.**, Allaf, M.E., Meyer, A.R. Incidental periprostatic schwannoma discovered during evaluation for prostatic adenocarcinoma (2020) *Urology Case Reports*, 31, art. no. 101150, .
- Argani, P., Zhang, L., Sung, Y.-S., **White, M.J.**, **Miller, K.**, **Hopkins, M.**, Small, D., Pratilas, C.A., Swanson, D., Dickson, B., Antonescu, C.R. A novel RBMX-TFE3 gene fusion in a highly aggressive pediatric renal perivascular epithelioid cell tumor (2020) *Genes Chromosomes and Cancer*, 59 (1), pp. 58-63.
- Argani, P., Zhang, L., Sung, Y.-S., **White, M.J.**, **Miller, K.**, **Hopkins, M.**, Small, D., Pratilas, C.A., Swanson, D., Dickson, B., Antonescu, C.R. A novel RBMX-TFE3 gene fusion in a highly aggressive pediatric renal perivascular epithelioid cell tumor (2020) *Genes Chromosomes and Cancer*, 59 (1), pp. 58-63.

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- **Alexander, C.**, **White, M.**, Maleki, Z., Rodriguez, E.F. HPV-ISH-Negative Invasive Cervical Squamous Cell Carcinoma: Histologic and Pap Test Results(2019) *Acta Cytologica*, 63 (5), pp. 417-423.
- Wills, B., Fan, Q., **Alexander, C.**, Bailey, C.R., Gelber, A.C. Confusion Following Treatment of Ovarian Cancer(2019) *American Journal of Medicine*, 132 (7), pp. e610-e611.
- **Alexander, C.J.**, Wake, L.M. Educational Case: Burkitt Lymphoma(2019) *Academic Pathology*,6.
- **Alexander, C.**, **White, M.**, Maleki, Z., Rodriguez, E.F. HPV-ISH-Negative Invasive Cervical Squamous Cell Carcinoma: Histologic and Pap Test Results (2019) *Acta Cytologica*, 63 (5), pp. 417-423.
- **Allison, D.B.**, **Rooper, L.M.**, Mustafa, S., Maleki, Z., Wakely, P.E., Jr., Ali, S.Z. Cytopathologic characteristics of HPV-related small cell carcinoma of the oropharynx (2019) *Cancer Cytopathology*, 127 (1), pp. 35-43. Variability among observers utilizing the CellSolutions BestCyte Cell Sorter imaging system for the assessment of urinary tract cytology specimens (2019) *Journal of the American Society of Cytopathology*, 8 (1), pp. 18-26.
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- **Cocks, M.**, Porcu, P., Wick, M.R., Gru, A.A. Recent Advances in Cutaneous T-cell Lymphoma: Diagnostic and Prognostic Considerations (2019) *Surgical Pathology Clinics*, 12 (3), pp. 783-803. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069647651&doi=10.1016%2fj.path.2019.03.006&partnerID=40&md5=667d3df7397681c843b3061f396bb2f2>
- **Cocks, M.M.** A challenging and rewarding time: The early days of graduate medical education in dermatology (2019) *Journal of Medical Biography*, 27 (3), pp. 173-178.
- Rodriguez, E.F., **Fite, J.J.**, Chowsilpa, S., Maleki, Z. Insulinoma-associated protein 1 immunostaining on cytology specimens: an institutional experience (2019) *Human Pathology*, 85, pp. 128-135.
- **Gelwan, E.**, Zhang, M.L., **Allison, D.B.**, **Cowan, M.L.**, DeLuca, J., Fite, J.J., **Wangsiricharoen, S.**, Williamson, B., Zhou, A., **VandenBussche, C.J.** Variability among observers utilizing the CellSolutions BestCyte Cell Sorter imaging system for the assessment of urinary tract cytology specimens (2019) *Journal of the American Society of Cytopathology*, 8 (1), pp. 18-26.
- **Gelwan, E.**, Zhang, M.L., **Allison, D.B.**, **Cowan, M.L.**, DeLuca, J., Fite, J.J., **Wangsiricharoen, S.**, Williamson, B., Zhou, A., **VandenBussche, C.J.** Variability among observers utilizing the CellSolutions BestCyte Cell Sorter imaging system for the assessment of urinary tract cytology specimens (2019) *Journal of the American Society of Cytopathology*, 8 (1), pp. 18-26.
- **Gelwan, E.**, Zhang, M.L., **Allison, D.B.**, **Cowan, M.L.**, DeLuca, J., **Fite, J.J.**, **Wangsiricharoen, S.**, Williamson, B., Zhou, A., **VandenBussche, C.J.** Variability among observers utilizing the CellSolutions BestCyte Cell Sorter imaging system for the assessment of urinary tract cytology specimens (2019) *Journal of the American Society of Cytopathology*, 8 (1), pp. 18-26.
- **Giraldo, N.A.**, **Peske, J.D.**, Sautès-Fridman, C., Fridman, W.H. Integrating histopathology, immune biomarkers, and molecular subgroups in solid cancer: the next step in precision oncology (2019) *Virchows Archiv*, 474 (4), pp. 463-474.
- **Giraldo, N.A.**, Sanchez-Salas, R., **Peske, J.D.**, Vano, Y., Becht, E., Petitprez, F., Validire, P., Ingels, A., Cathelineau, X., Fridman, W.H., Sautès-Fridman, C. The clinical role of the TME in solid cancer (2019) *British Journal of Cancer*, 120 (1), pp. 45-53.
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- **Giraldo, N.A.**, Sanchez-Salas, R., Peske, J.D., Vano, Y., Becht, E., Petitprez, F., Validire, P., Ingels, A., Cathelineau, X., Fridman, W.H., Sautès-Fridman, C. The clinical role of the TME in solid cancer(2019) *British Journal of Cancer*, 120 (1), pp. 45-53.
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- Al-Hussain, T., **Haffner, M.C.**, Altaweel, W.M., **Epstein, J.I.** Plasmacytoid acinar adenocarcinoma of the prostate: a newly described variant of prostate cancer (2019) *Human Pathology*, 94, pp. 86-91.
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- Tomasetti, C., Poling, J., Roberts, N.J., London, N.R., Jr., Pittman, M.E., **Haffner, M.C.**, Rizzo, A., Baras, A., Karim, B., Kim, A., Heaphy, C.M., Meeker, A.K., **Hruban, R.H.**, Iacobuzio-Donahue, C.A., Vogelstein, B. Cell division rates decrease with age, providing a potential explanation for the age-dependent deceleration in cancer incidence (2019) *Proceedings of the National Academy of Sciences of the United States of America*, 116 (41), pp. 20482-20488.
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- Deek, M.P., Phillips, R.M., **Haffner, M.**, Tran, P.T. Is Androgen Deprivation Therapy “Another Deficient Therapy” for Gleason Score 9-10 Prostate Cancer? (2019) *European Urology*, 75 (1), pp. 42-43.
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- **Hill, M.R.**, **Hopkins, M.R.**, Knezevic, C.E. Emerging toxidromes: A 25-year-old woman with syncope and ECG changes (2019) *Clinical Chemistry*, 65 (11), pp. 1357-1362.

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