





Jody Elizabeth Hooper

Associate Professor of Pathology

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Department of Pathology**

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Bio

CLINICAL FOCUS

- Anatomic Pathology
- Autopsy
- Gastrointestinal Pathology

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Pathology
- Member, Stanford Cancer Institute

PROFESSIONAL EDUCATION

- Fellowship: Oregon Health and Science University Dept of Pathology (2008) OR
- Board Certification: Anatomic Pathology, American Board of Pathology (2009)
- Residency: Cedars Sinai Medical Center Pathology Residency (2007) CA
- Internship: Naval Hospital San Diego Surgery Residency (1999) CA
- Medical Education: George Washington University Office of the Registrar (1998) DC

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I have a number of research interests associated with my autopsy work, including how the time interval between death and collection (the PMI) affects the condition and research viability of the collected tissue, how valuable blood and tissue cultures behave after death, and how autopsy results affect clinical practice in an established

information loop. I have projects exploring physician and family attitudes towards autopsy and the utilization of rapid autopsy tissue in characterizing cancer evolution from genetic and immunologic standpoints.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Naveen Sheikh

Publications

PUBLICATIONS

- **IgM anti-ACE2 autoantibodies in severe COVID-19 activate complement and perturb vascular endothelial function.** *JCI insight*
Casciola-Rosen, L., Thiemann, D. R., Andrade, F., Trejo-Zambrano, M. I., Leonard, E. K., Spangler, J. B., Skinner, N. E., Bailey, J., Yegnasubramanian, S., Wang, R., Vaghiasa, A. M., Gupta, A., Cox, et al
2022
- **Updating Normal Organ Weights Using a Large Current Sample Database.** *Archives of pathology & laboratory medicine*
Bell, M. D., Long, T., Roden, A. C., Cooper, F. I., Sanchez, H., Trower, C., Martinez, C., Hooper, J. E.
2022
- **Endothelial thrombomodulin downregulation caused by hypoxia contributes to severe infiltration and coagulopathy in COVID-19 patient lungs.** *EBioMedicine*
Won, T., Wood, M. K., Hughes, D. M., Talor, M. V., Ma, Z., Schneider, J., Skinner, J. T., Asady, B., Goerlich, E., Halushka, M. K., Hays, A. G., Kim, D., Parikh, et al
1800; 75: 103812
- **Upregulation of pulmonary tissue factor, loss of thrombomodulin and immunothrombosis in SARS-CoV-2 infection** *ECLINICALMEDICINE*
Francischetti, I. B., Toomer, K., Zhang, Y., Jani, J., Siddiqui, Z., Brotman, D. J., Hooper, J. E., Kickler, T. S.
2021; 39: 101069
- **Pathology Residency Program Special Expertise Tracks Meet the Needs of an Evolving Field** *ACADEMIC PATHOLOGY*
Wake, L. M., Allison, D. B., Ware, A. D., Hooper, J. E., Baras, A. S., Bloch, E. M., Clarke, W., Burns, K. H., Sfanos, K. S., Borowitz, M. J., Steenberg, C., Hruban, R. H., White, et al
2021; 8: 23742895211037034
- **Pulmonary hypoplasia correlates with the length of anhydramnios in patients with early pregnancy renal anhydramnios (EPRA)** *JOURNAL OF PERINATOLOGY*
Jelin, E. B., Hooper, J. E., Duregon, E., Williamson, A. K., Olson, S., Voegtline, K., Jelin, A. C.
2021; 41 (8): 1924-1929
- **Role of androgen receptor splice variant-7 (AR-V7) in prostate cancer resistance to 2nd-generation androgen receptor signaling inhibitors (vol 39, pg 6935, 2020)** *ONCOGENE*
Zhu, Y., Dalrymple, S. L., Coleman, I., Zheng, S., Xu, J., Hooper, J. E., Antonarakis, E. S., De Marzo, A. M., Meeker, A. K., Nelson, P. S., Isaacs, W. B., Denmeade, S. R., Luo, et al
2021; 40 (22): 3914-3916
- **SARS-CoV-2 infection drives endothelial dysfunction indirectly through hypoxia and increased pro-inflammatory cytokine production**
Won, T., Wood, M. K., Hughes, D. M., Talor, M. V., Johns, R. A., Gilotra, N. A., Pekosz, A. S., Hooper, J. E., Cihakova, D.
AMER ASSOC IMMUNOLOGISTS.2021
- **Y A Postmortem Portrait of the Coronavirus Disease 2019 (COVID-19) Pandemic** *ARCHIVES OF PATHOLOGY & LABORATORY MEDICINE*
Hooper, J. E., Padera, R. F., Dolhnikoff, M., Ferraz da Silva, L., Duarte-Neto, A., Kapp, M. E., Lacy, J., Mauad, T., Nascimento Saldiva, P., Rapkiewicz, A., Wolf, D. A., Felix, J. C., Benson, et al
2021; 145 (5): 529-535
- **Myosin specific T-RM cells mediate increased severity of immune checkpoint inhibitor myocarditis**
Kalinowski, H., Won, T., Rusinkevich, V., Talor, M. V., Hughes, D. M., Wood, M. K., Hooper, J. E., Cihakova, D.

AMER ASSOC IMMUNOLOGISTS.2021

- **Pericardial macrophages and their role in myocardial infarction**
Hughes, D. M., Won, T., Jurcova, I., Talor, M. V., Szarszoi, O., Curnova, L., Striz, I., Hooper, J. E., Melenovsky, V., Cihakova, D.
AMER ASSOC IMMUNOLOGISTS.2021
- **Resistance to androgen receptor signaling inhibition does not necessitate development of neuroendocrine prostate cancer** *JCI INSIGHT*
Brennen, W., Zhu, Y., Coleman, I. M., Dalrymple, S. L., Antony, L., Patel, R. A., Hanratty, B., Chikarmane, R., Meeker, A. K., Zheng, S., Hooper, J. E., Luo, J., De Marzo, et al
2021; 6 (8)
- **Muscle Biopsy Findings in a Case of SARS-CoV-2-Associated Muscle Injury** *JOURNAL OF NEUROPATHOLOGY AND EXPERIMENTAL NEUROLOGY*
Hooper, J. E., Uner, M., Priemer, D. S., Rosenberg, A., Chen, L.
2021; 80 (4): 377-378
- **Rapid Autopsy Programs and Research Support: The Pre- and Post-COVID-19 Environments** *AJSP-REVIEWS AND REPORTS*
Hooper, J. E.
2021; 26 (2): 100-107
- **The Genetic Evolution of Treatment-Resistant Cutaneous, Acral, and Uveal Melanomas** *CLINICAL CANCER RESEARCH*
Makohon-Moore, A. P., Lipson, E. J., Hooper, J. E., Zucker, A., Hong, J., Bielski, C. M., Hayashi, A., Tokheim, C., Baez, P., Kappagantula, R., Kohutek, Z., Makarov, V., Riaz, et al
2021; 27 (5): 1516-1525
- **Assessing Brain Capillaries in Coronavirus Disease 2019** *JAMA NEUROLOGY*
Nauen, D. W., Hooper, J. E., Stewart, C., Solomon, I. H.
2021; 78 (6): 760-762
- **Role of androgen receptor splice variant-7 (AR-V7) in prostate cancer resistance to 2nd-generation androgen receptor signaling inhibitors (vol 39, pg 6935, 2020)** *ONCOGENE*
Zhu, Y., Dalrymple, S. L., Coleman, I., Zheng, S., Xu, J., Hooper, J. E., Antonarakis, E. S., De Marzo, A. M., Meeker, A. K., Nelson, P. S., Isaacs, W. B., Denmeade, S. R., Luo, et al
2021; 40 (11): 2148
- **Evaluating T-cell cross-reactivity between tumors and immune-related adverse events with TCR sequencing: pitfalls in interpretations of functional relevance** *JOURNAL FOR IMMUNOTHERAPY OF CANCER*
Cottrell, T., Zhang, J., Zhang, B., Kaunitz, G. J., Burman, P., Chan, H., Verde, F., Hooper, J. E., Hammers, H., Allaf, M. E., Ji, H., Taube, J., Smith, et al
2021; 9 (7)
- **Fatal SARS-CoV-2 Inflammatory Syndrome and Myocarditis in an Adolescent: A Case Report.** *The Pediatric infectious disease journal*
Beaudry, J. T., Dietrick, B., Lammert, D. B., Conostas, A., McCaw, J., Hammond, J., Buendia, M., Stein, J. E., Pekosz, A., Schuette, J., Mostafa, H. H., Hooper, J. E., Bernier, et al
2021; 40 (2): e72-e76
- **End-of-Life Care: A Multimodal and Comprehensive Curriculum for Graduating Medical Students Utilizing Experiential Learning Opportunities.** *MedEdPORTAL : the journal of teaching and learning resources*
Jeffers, J. M., Bord, S., Hooper, J. E., Fleishman, C., Cayea, D., Garibaldi, B.
2021; 17: 11149
- **Overview of Pathologic Findings of Vaping in the Context of an Autopsy Patient With Chronic Injury** *ARCHIVES OF PATHOLOGY & LABORATORY MEDICINE*
Priemer, D. S., Gravenmier, C., Batouli, A., Hooper, J. E.
2020; 144 (11): 1408-1413
- **SARS-CoV-2 Virus Isolated From the Mastoid and Middle Ear: Implications for COVID-19 Precautions During Ear Surgery** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Frazier, K. M., Hooper, J. E., Mostafa, H. H., Stewart, C.
2020; 146 (10): 964-966
- **Role of androgen receptor splice variant-7 (AR-V7) in prostate cancer resistance to 2nd-generation androgen receptor signaling inhibitors** *ONCOGENE*
Zhu, Y., Dalrymple, S. L., Coleman, I., Zheng, S., Xu, J., Hooper, J. E., Antonarakis, E. S., De Marzo, A. M., Meeker, A. K., Nelson, P. S., Isaacs, W. B., Denmeade, S. R., Luo, et al

2020; 39 (45): 6935-6949

- **Association of Impaired Spermatogenesis With the Use of Immune Checkpoint Inhibitors in Patients With Metastatic Melanoma** *JAMA ONCOLOGY*
Scovell, J. M., Benz, K., Samarska, I., Kohn, T. P., Hooper, J. E., Matoso, A., Herati, A. S.
2020; 6 (8): 1297-1299
- **Comparison of skeletal and soft tissue pericytes identifies CXCR4(+) bone forming mural cells in human tissues** *BONE RESEARCH*
Xu, J., Li, D., Hsu, C., Tian, Y., Zhang, L., Wang, Y., Tower, R. J., Chang, L., Meyers, C. A., Gao, Y., Broderick, K., Morris, C., Hooper, et al
2020; 8 (1)
- **Comparison of skeletal and soft tissue pericytes identifies CXCR4+ bone forming mural cells in human tissues.** *Bone research*
Xu, J., Li, D., Hsu, C. Y., Tian, Y., Zhang, L., Wang, Y., Tower, R. J., Chang, L., Meyers, C. A., Gao, Y., Broderick, K., Morris, C., Hooper, et al
2020; 8 (1): 22
- **Sacral protuberance with cleft lip and palate: Prenatal presentation of 3MC syndrome** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
Lawson, C., Blakemore, K. J., Ryan, R., Hooper, J. E., Tsimis, M., Jelin, A.
2020; 182 (7): 1812-1814
- **Innate Lymphoid Cells Play a Pathogenic Role in Pericarditis** *CELL REPORTS*
Choi, H., Won, T., Hou, X., Chen, G., Bracamonte-Baran, W., Talor, M., Jurcova, I., Szarszoi, O., Curnova, L., Striz, I., Hooper, J. E., Melenovsky, V., Cihakova, et al
2020; 30 (9): 2989+
- **Inhibition of glutaminase to reverse fibrosis in iatrogenic laryngotracheal stenosis** *LARYNGOSCOPE*
Tsai, H., Motz, K. M., Ding, D., Lina, I., Murphy, M. K., Benner, D., Feeley, M., Hooper, J., Hillel, A. T.
2020; 130 (12): E773-E781
- **The problem with autopsy today may be us.** *Autopsy & case reports*
Hooper, J. E.
2020; 10 (1): e2020142
- **Cancer biology as revealed by the research autopsy** *NATURE REVIEWS CANCER*
Iacobuzio-Donahue, C. A., Michael, C., Baez, P., Kappagantula, R., Hooper, J. E., Hollman, T. J.
2019; 19 (12): 686-697
- **Comparing anti-tumor and anti-self immunity in a patient with melanoma receiving immune checkpoint blockade**
Chen, S., Soni, A., McMiller, T., Sidhom, J., Succaria, F., Berger, A., Hooper, J., Pardoll, D., Lipson, E., Taube, J., Topalian, S.
BMC.2019
- **Prenatal diagnosis of Desbuquois dysplasia Type 1: Utilization of high-density SNP array to map homozygosity and identify the gene** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
Forster, K. R., Hooper, J. E., Blakemore, K. J., Baschat, A. A., Hoover-Fong, J.
2019; 179 (12): 2490-2493
- **Rapid research autopsy is a stealthy but growing contributor to cancer research** *CANCER*
Duregon, E., Schneider, J., DeMarzo, A. M., Hooper, J. E.
2019; 125 (17): 2915-2919
- **Mannose Receptor-positive Macrophage Infiltration Correlates with Prostate Cancer Onset and Metastatic Castration-resistant Disease** *EUROPEAN UROLOGY ONCOLOGY*
Zarif, J. C., Baena-Del Valle, J. A., Hicks, J. L., Heaphy, C. M., Vidal, I., Luo, J., Lotan, T. L., Hooper, J. E., Isaacs, W. B., Pienta, K. J., De Marzo, A. M.
2019; 2 (4): 429-436
- **Disconnect between Fibrotic Response and Right Ventricular Dysfunction** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Crnkovic, S., Egemnazarov, B., Damico, R., Marsh, L. M., Nagy, B. M., Douschan, P., Atsina, K., Kolb, T. M., Mathai, S. C., Hooper, J. E., Ghanim, B., Klepetko, W., Fruhwald, et al
2019; 199 (12): 1550-1560
- **Preclinical rationale for entinostat in embryonal rhabdomyosarcoma** *SKELETAL MUSCLE*
Bharathy, N., Berlow, N. E., Wang, E., Abraham, J., Settlemeyer, T. P., Hooper, J. E., Svalina, M. N., Bajwa, Z., Goros, M. W., Hernandez, B. S., Wolff, J. E., Pal, R., Davies, et al

2019; 9: 12

- **Advancing the pathologic phenotype of giant axonal neuropathy: early involvement of the ocular lens** *ORPHANET JOURNAL OF RARE DISEASES*
Armao, D., Bouldin, T. W., Bailey, R. M., Hooper, J. E., Bharucha, D. X., Gray, S. J.
2019; 14: 27
- **The HDAC3-SMARCA4-miR-27a axis promotes expression of the PAX3:FOXO1 fusion oncogene in rhabdomyosarcoma** *SCIENCE SIGNALING*
Bharathy, N., Berlow, N. E., Wang, E., Abraham, J., Settelmeyer, T. P., Hooper, J. E., Svalina, M. N., Ishikawa, Y., Zientek, K., Bajwa, Z., Goros, M. W., Hernandez, B. S., Wolff, et al
2018; 11 (557)
- **Report and Recommendations of the Association of Pathology Chairs' Autopsy Working Group** *ACADEMIC PATHOLOGY*
Davis, G. G., Winters, G. L., Fyfe, B. S., Hooper, J. E., Iezzoni, J. C., Johnson, R. L., Markwood, P. S., Naritoku, W. Y., Nashelsky, M., Sampson, B. A., Steinberg, J. J., Stubbs, J. R., Timmons, et al
2018; 5: 2374289518793988
- **The Evolution of Earned, Transparent, and Quantifiable Faculty Salary Compensation: The Johns Hopkins Pathology Experience** *ACADEMIC PATHOLOGY*
Burns, K. H., Borowitz, M. J., Carroll, K. C., Gocke, C. D., Hooper, J. E., Amukele, T., Tobian, A. R., Valentine, A., Kahl, R., Rodas-Eral, V., Boitnott, J. K., Jackson, J., Sanfilippo, et al
2018; 5: 2374289518777463
- **INSM1 over-expression in CDK4-amplified glioblastoma**
Ames, H., Rodriguez, F., Eberhart, C., Hooper, J., Lathera, J.
OXFORD UNIV PRESS INC.2018: 492
- **The Association of Departmental Quality Infrastructure and Positive Change: A Pathology Department Illustration** *ACADEMIC PATHOLOGY*
Hooper, J. E., Richardson, H., Maters, A. W., Carroll, K. C., Pronovost, P. J.
2018; 5: 2374289517744753
- **The tumor suppressor phosphatase PP2A-56a regulates stemness and promotes the initiation of malignancies in a novel murine model** *PLOS ONE*
Janghorban, M., Langer, E. M., Wang, X., Zachman, D., Daniel, C. J., Hooper, J., Fleming, W. H., Agarwal, A., Sears, R. C.
2017; 12 (11): e0188910
- **Fatal Congenital Retroperitoneal Neuroblastoma Diagnosed by Fetal Magnetic Resonance Imaging** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Snyder, E., Jelin, A. C., Huisman, T. M., Hooper, J. E., Tekes, A.
2017; 41 (4): 651-652
- **Postmortem Assessment of Vector Biodistribution in the First-in-Human Intrathecal scAAV9 Gene Therapy Trial for Giant Axonal Neuropathy**
Gray, S. J., Bailey, R. M., Bharucha-Goebel, D., Foley, A., Zaric, V., Crawford, T. O., Armao, D., Sumner, C. J., Hoke, A., Chen, L., Grieger, J. C., Samulski, R., Mohassel, et al
CELL PRESS.2017: 139
- **A Model for the Departmental Quality Management Infrastructure Within an Academic Health System** *ACADEMIC MEDICINE*
Mathews, S. C., Demski, R., Hooper, J. E., Biddison, L., Berry, S. A., Petty, B. G., Chen, A. R., Hill, P. M., Miller, M. R., Witter, F. R., Allen, L., Wick, E. C., Stierer, et al
2017; 92 (5): 608-613
- **Uses and limitations of IgG4 positive plasma cells in evaluating ulcerative colitis.** *Journal of gastrointestinal and liver diseases : JGLD*
Keyashian, K. n., Duregon, E. n., Brinkerhof, B. T., Bradley, L. n., Larson, B. n., Lim, J. n., Modiano, N. n., Collins, J. n., Morgan, T. K., Hooper, J. E.
2017; 26 (4): 428-29
- **PSMA-Targeted F-18-DCFPyL PET/CT Imaging of Clear Cell Renal Cell Carcinoma: Results from a Rapid Autopsy** *EUROPEAN UROLOGY*
Gorin, M. A., Rowe, S. P., Hooper, J. E., Kates, M., Hammers, H., Szabo, Z., Pomper, M. G., Allaf, M. E.
2017; 71 (1): 145-146
- **Increased Mucosal IgG4 Infiltration Is Associated with Poor Clinical Outcomes in Ulcerative Colitis**
Brinkerhoff, B. T., Keyashian, K., Bradley, L., Larson, B., Lim, J., Modiano, N., Collins, J., Morgan, T. K., Hooper, J. E.
NATURE PUBLISHING GROUP.2016: 163A
- **Pulmonary Emboli and the Risk of Mortality in a Diverse Disease Environment**

Shabihkhani, M., Hooper, J. E.

NATURE PUBLISHING GROUP.2016: 10A

● **A Patient-Derived Xenograft Model of Parameningeal Embryonal Rhabdomyosarcoma for Preclinical Studies.** *Sarcoma*

Hooper, J. E., Cantor, E. L., Ehlen, M. S., Banerjee, A., Malempati, S., Stenzel, P., Woltjer, R. L., Gandour-Edwards, R., Goodwin, N. C., Yang, Y., Kaur, P., Bult, C. J., Airhart, et al

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