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Steven M. Chirieleison

Clinical Instructor, Pathology

CLINICAL OFFICE (PRIMARY)

- **Department of Pathology**

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Bio

CLINICAL FOCUS

- Gastrointestinal pathology
- Cytopathology
- Anatomic and Clinical Pathology

ACADEMIC APPOINTMENTS

- Clinical Instructor, Pathology

PROFESSIONAL EDUCATION

- Board Certification: Cytopathology, American Board of Pathology (2023)
- Fellowship: Stanford University Department of Pathology (2022) CA
- Board Certification, American Board of Pathology , Cytopathology (2023)
- Fellowship, Stanford University, Gastrointestinal and Hepatobiliary Pathology , CA (2022)
- Board Certification: Anatomic Pathology, American Board of Pathology (2022)
- Fellowship: Stanford University Cytopathology Fellowship (2023) CA
- Residency: Stanford University Pathology Residency (2022) CA
- Medical Education: Case Western Reserve School of Medicine (2019) OH

Publications

PUBLICATIONS

- **Rapid Deployment of Whole Slide Imaging for Primary Diagnosis in Surgical Pathology at Stanford Medicine Responding to Challenges of the COVID-19 Pandemic** *ARCHIVES OF PATHOLOGY & LABORATORY MEDICINE*

  Rojansky, R., Jhun, I., Dussaq, A. M., Chirieleison, S. M., Nirschl, J. J., Born, D., Fralick, J., Hetherington, W., Kerr, A. M., Lavezo, J., Lawrence, D. B., Lummus, S., Macasaet, et al

  2023; 147 (3): 359-367

- **Utility of Albumin In Situ Hybridization in Distinguishing Intrahepatic Cholangiocarcinoma from Primary Gastric and Pancreatic Adenocarcinomas**
  Nichols, C., Chirieleison, S., Berg, K., Longacre, T.
  ELSEVIER SCIENCE INC.2023: S1395

- **Discovery of a Redox Thiol Switch: Implications for Cellular Energy Metabolism** *MOLECULAR & CELLULAR PROTEOMICS*
  Gao, X., Li, L., Parisien, M., Wu, J., Bederman, I., Gao, Z., Krokowski, D., Chirieleison, S. M., Abbott, D., Wang, B., Arvan, P., Cameron, M., Chance, et al
  2020; 19 (5): 852-870

- **Homophilic CD44 Interactions Mediate Tumor Cell Aggregation and Polyclonal Metastasis in Patient-Derived Breast Cancer Models** *CANCER DISCOVERY*
  Liu, X., Taftaf, R., Kawaguchi, M., Chang, Y., Chen, W., Entenberg, D., Zhang, Y., Gerratana, L., Huang, S., Patel, D. B., Tsui, E., Adorno-Cruz, V., Chirieleison, et al
  2019; 9 (1): 96-113

- **Chemical disruption of the pyroptotic pore-forming protein gasdermin D inhibits inflammatory cell death and sepsis** *SCIENCE IMMUNOLOGY*
  Rathkey, J. K., Zhao, J., Liu, Z., Chen, Y., Yang, J., Kondolf, H. C., Benson, B. L., Chirieleison, S. M., Huang, A. Y., Dubyak, G. R., Xiao, T. S., Li, X., Abbott, et al
  2018; 3 (26)

- **Unique BIR domain sets determine inhibitor of apoptosis protein-driven cell death and NOD2 complex signal specificity** *SCIENCE SIGNALING*
  Chirieleison, S. M., Rathkey, J. K., Abbott, D. W.
  2018; 11 (539)

- **Live-cell visualization of gasdermin D-driven pyroptotic cell death** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Rathkey, J. K., Benson, B. L., Chirieleison, S. M., Yang, J., Xiao, T. S., Dubyak, G. R., Huang, A. Y., Abbott, D. W.
  2017; 292 (35): 14649-14658

- **Nucleotide-binding oligomerization domain (NOD) signaling defects and cell death susceptibility cannot be uncoupled in X-linked inhibitor of apoptosis (XIAP)-driven inflammatory disease** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Chirieleison, S. M., Marsh, R. A., Kumar, P., Rathkey, J. K., Dubyak, G. R., Abbott, D. W.
  2017; 292 (23): 9666-9679

- **Cdk5 disruption attenuates tumor PD-L1 expression and promotes antitumor immunity** *SCIENCE*
  Dorand, R., Nthale, J., Myers, J. T., Barkauskas, D. S., Avril, S., Chirieleison, S. M., Pareek, T. K., Abbott, D. W., Stearns, D. S., Letterio, J. J., Huang, A. Y., Petrosiute, A.
  2016; 353 (6297): 399-403

- **Synthetic Biology Reveals the Uniqueness of the RIP Kinase Domain** *JOURNAL OF IMMUNOLOGY*
  Chirieleison, S. M., Kertesy, S. B., Abbott, D. W.
  2016; 196 (10): 4291-4297

- **An I kappa B Kinase-Regulated Feedforward Circuit Prolongs Inflammation** *CELL REPORTS*
  Perez, J. M., Chirieleison, S. M., Abbott, D. W.
  2015; 12 (4): 537-544

- **Pattern transformation with DNA circuits** *NATURE CHEMISTRY*
  Chirieleison, S. M., Allen, P. B., Simpson, Z. B., Ellington, A. D., Chen, X.
  2013; 5 (12): 1000-1005

- **Generalized bacterial genome editing using mobile group II introns and Cre-lox** *MOLECULAR SYSTEMS BIOLOGY*
  Enyeart, P. J., Chirieleison, S. M., Dao, M. N., Perutka, J., Quandt, E. M., Yao, J., Whitt, J. T., Keatinge-Clay, A. T., Lambowitz, A. M., Ellington, A. D.
  2013; 9: 685

- **Human Muscle-Derived Cell Populations Isolated by Differential Adhesion Rates: Phenotype and Contribution to Skeletal Muscle Regeneration in Mdx/SCID Mice** *TISSUE ENGINEERING PART A*
  Chirieleison, S. M., Feduska, J. M., Schugar, R. C., Askew, Y., Deasy, B. M.
  2012; 18 (3-4): 232-241

- **Tracking Stem Cell Function with Computers Via Live Cell Imaging: Identifying Donor Variability in Human Stem Cells** *OPERATIVE TECHNIQUES IN ORTHOPAEDICS*
  Deasy, B. M., Chirieleison, S. M., Witt, A. M., Peyton, M. J., Bissell, T. A.
  2010; 20 (2): 127-135

- **High Harvest Yield, High Expansion, and Phenotype Stability of CD146 Mesenchymal Stromal Cells from Whole Primitive Human Umbilical Cord Tissue** *JOURNAL OF BIOMEDICINE AND BIOTECHNOLOGY*
  Schugar, R. C., Chirieleison, S. M., Wescoe, K. E., Schmidt, B. T., Askew, Y., Nance, J. J., Evron, J. M., Peault, B., Deasy, B. M.
  2009: 789526