



## Greg Charville, MD, PhD

Associate Professor of Pathology

### CLINICAL OFFICE (PRIMARY)

- **Surgical Pathology**

300 Pasteur Dr Rm H2110

MC 5243

Palo Alto, CA 94304

**Tel** (650) 723-7211

**Fax** (650) 725-6902

### ACADEMIC CONTACT INFORMATION

- **E-mail**

**Email** [gwc@stanford.edu](mailto:gwc@stanford.edu)

### Bio

---

#### BIO

Dr. Charville has a special interest in the diagnosis of rare tumors that derive from bone and soft tissues, including muscle, fat, blood vessels, cartilage, and other connective tissues. He also specializes in the classification and study of diseases related to the gastrointestinal and hepatopancreatobiliary systems.

Dr. Charville particularly enjoys working alongside Stanford's excellent physicians-in-training to classify the most diagnostically challenging cases in collaboration with pathologists from around the world, bringing to bear cutting-edge techniques for comprehensive histologic and molecular characterization in each case. This experience serves as the inspiration for laboratory-based investigation of the molecular underpinnings of human disease, focusing on genetic and epigenetic mechanisms of neoplasia and the translation of these mechanistic insights into novel diagnostic and predictive biomarkers.

#### CLINICAL FOCUS

- Soft Tissue and Bone Pathology
- Gastrointestinal and Hepatopancreatobiliary Pathology
- Anatomic and Clinical Pathology

#### ACADEMIC APPOINTMENTS

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

#### ADMINISTRATIVE APPOINTMENTS

- Director, Soft Tissue and Bone Pathology Service, Department of Pathology, (2023- present)
- Associate Director, Gastrointestinal and Pancreatobiliary Pathology Service, Department of Pathology, (2023- present)

## HONORS AND AWARDS

- ASCP 40 Under Forty Honoree, American Society for Clinical Pathology (2024)
- Anatomic Pathology Junior Faculty Teaching Award, Department of Pathology, Stanford University School of Medicine (2019)
- Faculty Mentoring Award, Department of Pathology, Stanford University School of Medicine (2019)
- Arthur Purdy Stout Stipend Award, Arthur Purdy Stout Society of Surgical Pathologists (2017)
- Ruth L. Kirschstein National Research Service Award (F30), National Institute on Aging, National Institutes of Health (2009-2015)
- Medical Scientist Training Program, National Institutes of Health, Stanford University School of Medicine (2007-2015)
- Francis P. Venable Medal, Department of Chemistry, UNC-Chapel Hill (2007)
- Barry M. Goldwater Scholarship, Barry Goldwater Scholarship and Excellence in Education Foundation (2005-2007)

## PROFESSIONAL EDUCATION

- M.D., Stanford University School of Medicine (2015)
- Ph.D., Stanford University School of Medicine , Developmental Biology (2015)
- Residency: Stanford University Pathology Residency (2018) CA
- Board Certification, American Board of Pathology , Anatomic Pathology (2018)

## Publications

---

### PUBLICATIONS

- **CBL Syndrome With Granular Cell Tumor and café au lait macules: Expansion of the Phenotype.** *American journal of medical genetics. Part A*  
Harrington, C. N., Kohl, E., Gilitwala, Z., Teng, J., Siegel, D. H., Charville, G. W., Steffner, R. J., Stevenson, D. A.  
2026
- **SSTR2 expression in EBV-positive and EBV-negative lymphomas.** *Journal of hematopathology*  
Brar, N., Barrios-Menéndez, J. C., Charville, G. W., Briercheck, E. L., Natkunam, Y., Valvert, F., Silva, O.  
2026; 19 (1)
- **Superficial CIC::DUX4 Sarcoma With Focal WT1 Expression: Histomorphologic Clues and Immunohistochemical Pitfalls.** *Journal of cutaneous pathology*  
Jiang, J., Say, B., Brown, R., Rieger, K., Charville, G. W., Narala, S., Saleem, A., Novoa, R.  
2026
- **Does This Imaging Make Me Look NFATC2? The Value of Radiologic-pathologic Correlation in NFATC2-rearranged Sarcomas of Bone.** *The American journal of surgical pathology*  
Kallen, M. E., Perret, R., Charville, G. W., Michal, M., Warmke, L. M., Larousserie, F., Höeller, S., Lee, J. C., Min, V. L., Shuliang, G., Nor, F. E., Le Loarer, F., Tan, et al  
2026
- **Pelvic Osteochondroma Causing a Painful Anterior Snapping Hip With Concomitant Femoroacetabular Impingement: A Case Report.** *Cureus*  
Meadows, M. C., Charville, G., Pun, S. Y.  
2026; 18 (2): e103498
- **Liposclerosing myxofibrous tumor: radiographic reporting frequency, pathologic correlation, and malignant transformation.** *Skeletal radiology*  
Zandee van Rilland, E. D., Riley, G. M., Garner, H. W., Edgar, M. A., Charville, G. W., Steffner, R. J., Boutin, R. D.  
2025
- **Expanding the Clinicopathologic Spectrum of EWSR1::SSX-Rearranged Sarcomas: Series of 11 Cases Including Osteosarcomas and a Novel EWSR1::SSX4 Fusion.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Gross, J. M., Suster, D. I., Zou, Y., Mata, D. A., Amary, F., De Noon, S., Flanagan, A. M., Wakeman, K. M., Wangsiricharoen, S., Dong, F., Lam, S. W., Bovée, J. V., Baltres, et al

2025: 100922

- **Total hip arthroplasty for diffuse skeletal fluorosis.** *BMJ case reports*  
Chang, T., Steven, K. J., Charville, G., Amanatullah, D. F.  
2025; 18 (10)
- **Pseudomyogenic Hemangioendothelioma Treated with Zoledronic Acid: A Case Report.** *JBJS case connector*  
McGovern, A. G., Bui, N. Q., Charville, G. W., Guja, K. E., Steffner, R. J.  
2025; 15 (4)
- **Disruption of fibroblast MYD88 signaling promotes antitumor immunity in pancreatic ductal adenocarcinoma.** *Cell reports*  
Korah, M., Reveron-Thornton, R. F., Fallah, M., Xie, P. Y., Gonçalves, A., Guo, C., Agolia, J. P., Delitto, A. E., Flojo, R. A., Reddy, B., Yip, K. A., Lu, J. M., Tomasso, et al  
2025; 44 (10): 116347
- **Defining the antitumor mechanism of action of a clinical-stage compound as a selective degrader of the nuclear pore complex.** *Cancer discovery*  
Yuan, L., Ji, W., Dwyer, B. G., Lu, J., Bian, J., Colombo, G. M., Martinez, M. J., Fernandez, D., Phillips, N. A., Tang, M. T., Zhou, C. W., Quispe Calla, N. E., Guzman Huancas, et al  
2025
- **ROSIE: AI generation of multiplex immunofluorescence staining from histopathology images.** *Nature communications*  
Wu, E., Bieniosek, M., Wu, Z., Thakkar, N., Charville, G. W., Makky, A., Schürch, C. M., Huyghe, J. R., Peters, U., Li, C. I., Li, L., Giba, H., Behera, et al  
2025; 16 (1): 7633
- **Ossifying Spindled and Epithelioid Tumor: A Novel Soft Tissue Tumor.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Gross, J. M., Zou, Y. S., Michal, M., Agaimy, A., Garcia, R. A., Hysell, C., Fritchie, K. J., Dermawan, J. K., Rubin, B. P., Klausner, M., Morsberger, L., Dudley, J., Skaist, et al  
2025: 100840
- **Skeletal Muscle Marker Expression in Ossifying Fibromyxoid Tumor: A Study of 44 Tumors.** *Human pathology*  
Engrav, S., Dehner, C. A., Thangaiah, J. J., Folpe, A. L., Charville, G. W., Molligan, J.  
2025: 105816
- **Malignant ossifying fibromyxoid tumour with TP53::PHF1 fusion: report of three cases suggesting an association between rare fusions and malignant phenotypes.** *Histopathology*  
Bigot, N. J., Neyaz, A., Alani, A., Karunamurthy, A., Bubar, R. D., Burgess, M. A., Charville, G. W., John, I.  
2025
- **Malignant Chondroblastoma: An Epigenetically Distinct Subtype of Chondroblastoma with a Predilection for the Skeletally Mature.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Fritchie, K., Ameline, B., Andrei, V., Charville, G., Hornick, J. L., Meredith, D. M., John, I., Michal, M., Pancsa, T., Kilpatrick, S. E., Reith, J., Wang, Z., Horvai, et al  
2025: 100790
- **Utility of Protein Kinase C Beta II Immunohistochemistry in Differential Diagnosis of Ewing Sarcoma.** *The American journal of surgical pathology*  
Lasota, J., Krupińska, M., Kaczorowski, M., Chłopek, M., Kinkor, Z., Švajdler, M., Perret, R., Charville, G. W., Bradová, M., Ylaya, K., Wesółowska, M., Rozmus-Piętoń, M., Ryś, et al  
2025
- **Dermatofibrosarcoma protuberans with PDGFD rearrangements: a case series featuring a novel EMILIN1::PDGFD fusion and comprehensive literature review.** *Virchows Archiv : an international journal of pathology*  
Sotiriou, S., Chatzopoulos, K., Charville, G. W., Bean, G. R., Michal, M., Gross, J. M., Bridge, J. A., Gardner, J. M., Agaimy, A., Ng, T. L., Cloutier, J. M., Saoud, C., Linos, et al  
2025
- **MEIS1::NCOA1 Primitive Spindle Cell Sarcoma of the Kidney: Report of 7 Cases of a Distinctive Clinicopathologic Entity.** *The American journal of surgical pathology*

- Argani, P., Wangsiricharoen, S., Tretiakova, M., Liu, Y. J., Falzarano, S. M., Collins, K., Brimo, F., Gross, J. M., Baraban, E., Matoso, A., Wakeman, K., Corless, C., Neff, et al  
2025
- **Association of Histologic Subtype With Radiation Response and Survival Outcomes in Synovial Sarcoma.** *Advances in radiation oncology*  
Matsui, J. K., Jackson, S., Fang, J., Mohler, D. G., Steffner, R. J., Avedian, R. S., Charville, G. W., Rijn, M. v., Million, L., Chin, A. L., Hiniker, S. M., Kalbasi, A., Moding, et al  
2025; 10 (3): 101718
  - **Nodular fasciitis: a case series unveiling novel and rare gene fusions, including two cases with aggressive clinical behavior.** *Virchows Archiv : an international journal of pathology*  
Saoud, C., Agaimy, A., Stoehr, R., Michal, M., Wang, S. K., Mandavilli, S., Charville, G. W., Linos, K.  
2025
  - **Aberrant Cytoplasmic INSM1 Expression in Erythroid Cells: A Potential Diagnostic Pitfall Versus Neuroendocrine Neoplasms.** *International journal of surgical pathology*  
Wu, D. J., Charville, G. W., Sangoi, A. R.  
2025: 10668969241311524
  - **A spatiotemporal and machine-learning platform facilitates the manufacturing of hPSC-derived esophageal mucosa.** *Developmental cell*  
Yang, Y., McCullough, C. G., Seninge, L., Guo, L., Kwon, W. J., Zhang, Y., Li, N. Y., Gaddam, S., Pan, C., Zhen, H., Torkelson, J., Glass, I. A., Charville, et al  
2025
  - **Spatial transcriptomic analysis drives PET imaging of tight junction protein expression in pancreatic cancer theranostics.** *Nature communications*  
Wang, J., Seo, J. W., Kare, A. J., Schneider, M., Pandrala, M., Tumbale, S. K., Raie, M. N., Engudar, G., Zhang, N., Guo, Y., Zhong, X., Ferreira, S., Wu, et al  
2024; 15 (1): 10751
  - **YAP1::KMT2A-rearranged sarcomas harbor a unique methylation profile and are distinct from sclerosing epithelioid fibrosarcoma and low-grade fibromyxoid sarcoma.** *Virchows Archiv : an international journal of pathology*  
Warmke, L. M., Ameline, B., Fritchie, K. J., Dehner, C. A., Agaimy, A., Din, N. U., Miettinen, M. M., Dermawan, J. K., Gross, J. M., Thangaiah, J. J., Chrisinger, J. S., Suster, D. I., Perret, et al  
2024
  - **Genomic, epigenomic and transcriptomic inter- and intra-tumor heterogeneity in desmoid tumors.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
De Bellis, C., Vennam, S., Eeles, C., Rahimizadeh, P., Cates, J., Stricker, T., Hoffman, J., Ganjoo, K., Charville, G. W., Haibe-Kains, B., van de Rijn, M., Przybyl, J.  
2024
  - **Monitoring Response Using Circulating Tumor DNA in Undifferentiated Pleomorphic Sarcoma: A Case Report.** *Cureus*  
Siy, A. B., Zhou, M., Boncompagni, A. C., Charville, G., Poultides, G., Ganjoo, K. N.  
2024; 16 (11): e74837
  - **Polypoid Kaposi Sarcoma Involving the Lower Gastrointestinal Tract: Clinicopathologic Study of 15 Cases.** *Archives of pathology & laboratory medicine*  
Suster, D. I., Rastegar, S., Salviato, T., Wang, W., Collins, K., Gonzalez, I. A., Choi, W., Chen, H. H., Gonzalez, R. S., McHugh, K., Salomao, M., Charville, G. W.  
2024
  - **Myoepithelial Tumors of Soft Tissue and Bone in Children and Young Adults: A Clinicopathologic Study of 40 Cases Occurring in Patients < 21 Years of Age.** *Human pathology*  
Logan, S. J., Dehner, C. A., Alruwaili, F. I., Din, N. U., Olson, D. R., Fritchie, K. J., Charville, G. W., Blessing, M. M., Folpe, A. L.  
2024
  - **Extraskelatal Ewing Sarcoma of the Gastrointestinal and Hepatobiliary Tract: Deceptive Immunophenotype Commonly Leads to Misdiagnosis.** *The American journal of surgical pathology*  
Shiyanbola, O., Nigdelioglu, R., Dhall, D., González, I. A., Warmke, L. M., Schechter, S., Choi, W. T., Hu, S., Voltaggio, L., Zhang, Y., Liang, T. Z., Ko, H. M., Charville, et al  
2024

- **Diagnosing liposarcoma on (peri)-renal mass biopsy: A clinicopathological study of 30 cases.** *Histopathology*  
Potterveld, S. K., Mubeen, A., Anderson, W. J., Clay, M. R., Bourgeau, M., Charville, G. W., Sangoi, A. R.  
2024
- **Scattering-Based Light Sheet Microscopy Imaging of HPV-Associated Squamous Lesions of the Anal Canal: A Proof-of-Principle Study.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Liang, B., Zhao, J., Kim, Y., Barry-Holson, K. Q., Bingham, D. B., Charville, G. W., Darragh, T. M., Folkins, A. K., Howitt, B. E., Kong, C. S., Longacre, T. A., McHenry, A. J., Toland, et al  
2024: 100493
- **Spatially Segregated Macrophage Populations Predict Distinct Outcomes In Colon Cancer.** *Cancer discovery*  
Matusiak, M., Hickey, J. W., van IJzendoorn, D. G., Lu, G., Kidzinski, L., Zhu, S., Colburg, D. R., Luca, B., Phillips, D. J., Brubaker, S. W., Charville, G. W., Shen, J., Loh, et al  
2024
- **CHRNA6 RNA in situ hybridization is a useful tool for the diagnosis of extraskelletal myxoid chondrosarcoma.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Dulken, B. W., Kingsley, L., Zdravkovic, S., Cespedes, O., Qian, X., Suster, D. I., Charville, G. W.  
2024: 100464
- **Sarcomas with EWSR1::Non-ETS Fusion (EWSR1::NFATC2 and EWSR1::PATZ1).** *Surgical pathology clinics*  
Machado, I., Llombart-Bosch, A., Charville, G. W., Navarro, S., Domínguez Franjo, M. P., Bridge, J. A., Linos, K.  
2024; 17 (1): 31-55
- **Sarcoma microenvironment cell states and ecosystems are associated with prognosis and predict response to immunotherapy.** *Nature cancer*  
Subramanian, A., Nemat-Gorgani, N., Ellis-Caleo, T. J., van IJzendoorn, D. G., Sears, T. J., Somani, A., Luca, B. A., Zhou, M. Y., Bradic, M., Torres, I. A., Oladipo, E., New, C., Kenney, et al  
2024
- **Frontiers in Soft Tissue Tumor Pathology.** *Surgical pathology clinics*  
Charville, G. W.  
2024; 17 (1): ix
- **Atypical spindle cell/pleomorphic lipomatous tumor with sarcomatous transformation: clinicopathologic and molecular analysis of four cases.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Perret, R., Charville, G. W., Alame, M., Rebier, F., Soubeyran, I., Gross, J. M., Graham, D., Green, D. C., Kerr, D. A., Khan, W. A., Cloutier, J. M.  
2024: 100454
- **Matrix viscoelasticity promotes liver cancer progression in the pre-cirrhotic liver.** *Nature*  
Fan, W., Adebowale, K., Vánca, L., Li, Y., Rabbi, M. F., Kunimoto, K., Chen, D., Mozes, G., Chiu, D. K., Li, Y., Tao, J., Wei, Y., Adeniji, et al  
2024
- **Surgery and stereotactic radiosurgery for spinal leiomyosarcoma: a single-institution retrospective series and systematic review.** *Journal of neurosurgery. Spine*  
Zamarud, A., Marianayagam, N. J., Sekar, V., Testa, S., Park, D. J., Yener, U., McCleary, T. L., Yoo, K. H., Emrich, S., Tayag, A., Ustrzynski, L., Pollom, E., Soltys, et al  
2023: 1-13
- **GLI1-altered mesenchymal tumors with ACTB or PTCH1 fusion: a molecular and clinicopathologic analysis.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Kerr, D. A., Cloutier, J. M., Margolis, M., Mata, D. A., Rodrigues Simoes, N. J., Faquin, W. C., Dias-Santagata, D., Chopra, S., Charville, G. W., Wangsiricharoen, S., Lazar, A. J., Wang, W. L., Rosenberg, et al  
2023: 100386
- **Management Strategies and Outcomes in Primary Liver Angiosarcoma.** *American journal of clinical oncology*  
Ramakrishnan, N., Mokhtari, R., Charville, G. W., Bui, N., Ganjoo, K.  
2023
- **Non-cutaneous syncytial myoepitheliomas are identical to cutaneous counterparts: a clinicopathologic study of 24 tumors occurring at diverse locations.** *Virchows Archiv : an international journal of pathology*

- Wangsiricharoen, S., Gjeorgjievski, S. G., Bahrami, A., Torres-Mora, J., Zou, Y. S., Michal, M., Charville, G. W., Gross, J. M.  
2023
- **Identification and confirmation via in situ hybridization of Merkel cell polyomavirus in rare cases of posttransplant cutaneous T-cell lymphoma.** *Journal of cutaneous pathology*  
Lawrence, L., Wang, A., Charville, G., Liu, C. L., Garofalo, A., Alizadeh, A., Jangam, D., Pinsky, B. A., Sahoo, M., Gratzinger, D., Khodadoust, M., Kim, Y., Novoa, et al  
2023
  - **Low-grade fibromyxoid sarcoma of the breast: genetic characterization and immunohistochemical comparison to morphologic mimics.** *Human pathology*  
Cloutier, J. M., Moreland, A., Wang, L., Kunder, C. A., Allard, G., Wang, A., Krings, G., Charville, G. W., Bean, G. R.  
2023
  - **When a dermatopathologist encounters the ultra-rare: A case series of superficial soft tissue/cutaneous myxopapillary ependymomas.** *Journal of cutaneous pathology*  
Chatzopoulos, K., Hytiroglou, P., Charville, G. W., Toland, A. M., Martinez-Lage, M., Cimino, P. J., Rosenblum, M. K., Linos, K.  
2023
  - **7-UP: Generating in silico CODEX from a small set of immunofluorescence markers.** *PNAS nexus*  
Wu, E., Trevino, A. E., Wu, Z., Swanson, K., Kim, H. J., D'Angio, H. B., Preska, R., Chiou, A. E., Charville, G. W., Dalerba, P., Duvvuri, U., Colevas, A. D., Levi, et al  
2023; 2 (6): pgad171
  - **Treatment of De-Differentiated Liposarcoma in the Era of Immunotherapy.** *International journal of molecular sciences*  
Zhou, M. Y., Bui, N. Q., Charville, G. W., Ganjoo, K. N., Pan, M.  
2023; 24 (11)
  - **Monitoring sarcoma response to immune checkpoint inhibition and local cryotherapy with circulating tumor DNA analysis.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Bui, N. Q., Nemat-Gorgani, N., Subramanian, A., Torres, I. A., Lohman, M., Sears, T. J., van de Rijn, M., Charville, G. W., Becker, H. C., Wang, D. S., Hwang, G. L., Ganjoo, K. N., Moding, et al  
2023
  - **Calcified Chondroid Mesenchymal Neoplasm: Exploring the Morphologic and Clinical Features of an Emergent Entity with a Series of 33 Cases.** *The American journal of surgical pathology*  
Kallen, M. E., Michal, M., Meyer, A., Suster, D. I., Olson, N. J., Charville, G. W., Perret, R., Gross, J. M.  
2023
  - **Contemporary diagnostic approach to atypical vascular lesion and angiosarcoma.** *Seminars in diagnostic pathology*  
Rutland, C. D., Bean, G. R., Charville, G. W.  
2023
  - **The abundance and morphology of human large intestinal goblet and tuft cells during chronic schistosomiasis.** *Parasite immunology*  
Gologorsky, M. B., Mechler, C. M., Forgó, E., Charville, G. W., Howitt, M. R.  
2023: e12981
  - **Diagnostic utility of FOXO1 immunohistochemistry for rhabdomyosarcoma classification.** *Histopathology*  
Rutland, C. D., Gedallovich, J., Wang, A., Zdravkovic, S., Varma, S., Hornick, J. L., Charville, G. W.  
2023
  - **Mapping transcriptional heterogeneity and metabolic networks in fatty livers at single-cell resolution.** *iScience*  
Coassolo, L., Liu, T., Jung, Y., Taylor, N. P., Zhao, M., Charville, G. W., Nissen, S. B., Yki-Jarvinen, H., Altman, R. B., Svensson, K. J.  
2023; 26 (1): 105802
  - **The Majority of Patients Who Undergo ERCP When Large Duct Obstruction Is Evident on Liver Biopsy Have Biliary Findings Amenable to Endoscopic Intervention.** *Journal of clinical medicine*  
Martin, M., Lee, J., Gugig, R., Ofosu, A., Charville, G. W., Barakat, M. T.  
2023; 12 (2)
  - **Adult Pancreatoblastoma: Report of 3 new Cases With Genetic Diversity and Autopsy Findings.** *International journal of surgical pathology*

Machado, I., López-Guerrero, J. A., Fernandez, A., López, R., García Casado, Z., Ferrandez, A., Llombart-Bosch, A., Charville, G. W.  
2022; 10668969221133351

- **Graph deep learning for the characterization of tumour microenvironments from spatial protein profiles in tissue specimens.** *Nature biomedical engineering*  
Wu, Z., Trevino, A. E., Wu, E., Swanson, K., Kim, H. J., D'Angio, H. B., Preska, R., Charville, G. W., Dalerba, P. D., Egloff, A. M., Uppaluri, R., Duvvuri, U., Mayer, et al  
2022
- **Trichodysplasia Spinulosa Polyomavirus Endothelial Infection, California, USA.** *Emerging infectious diseases*  
Lawrence, L., Wang, A., Charville, G., Toland, A., Pinsky, B., Natkunam, Y., Younes, S., Stehr, H., Gratzinger, D.  
2022; 28 (9): 1935-1937
- **Interactions in CSF1-driven Tenosynovial Giant Cell Tumors.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
van IJzendoorn, D. G., Matusiak, M., Charville, G. W., Spierenburg, G., Varma, S., Colburg, D. R., van de Sande, M. A., van Langevelde, K., Mohler, D. G., Ganjoo, K. N., Bui, N. Q., Avedian, R. S., Bovee, et al  
2022
- **Management of Patients with Newly Diagnosed Desmoid Tumors in a First-Line Setting.** *Cancers*  
Testa, S., Bui, N. Q., Charville, G. W., Avedian, R. S., Steffner, R., Ghanouni, P., Mohler, D. G., Ganjoo, K. N.  
2022; 14 (16)
- **Cutaneous Angiosarcoma of the Head and Neck-A Retrospective Analysis of 47 Patients.** *Cancers*  
Ramakrishnan, N., Mokhtari, R., Charville, G. W., Bui, N., Ganjoo, K.  
2022; 14 (15)
- **A Subset of SMARCB1 (INI-1) Deficient Vulvar Neoplasms Express Germ Cell Markers.** *Histopathology*  
Hammer, P. M., Kolin, D. L., Charville, G. W., McCluggage, W. G., Howitt, B. E.  
2022
- **GRM1 Immunohistochemistry Distinguishes Chondromyxoid Fibroma From its Histologic Mimics.** *The American journal of surgical pathology*  
Toland, A. M., Lam, S. W., Varma, S., Wang, A., Howitt, B. E., Kunder, C. A., Kerr, D. A., Szuhai, K., Bovée, J. V., Charville, G. W.  
2022
- **First Recurrence of Synovial Sarcoma Presenting With Solitary Pancreatic Mass.** *Cureus*  
Narayan, R. R., Charville, G. W., Delitto, D., Ganjoo, K. N.  
2022; 14 (6): e26356
- **Current management and recent progress in desmoid tumors.** *Cancer treatment and research communications*  
Zhou, M. Y., Bui, N. Q., Charville, G. W., Ghanouni, P., Ganjoo, K. N.  
2022; 31: 100562
- **Molecular investigation of ALK-rearranged epithelioid fibrous histiocytomas identifies CLTC as a novel fusion partner and evidence of fusion-independent transcription activation.** *Genes, chromosomes & cancer*  
Georgantzoglou, N., Green, D., Winnick, K. N., Sumegi, J., Charville, G. W., Bridge, J. A., Linos, K.  
2022
- **Does PAX7 and NKX2.2 immunoreactivity in Ewing sarcoma have prognostic significance?** *Virchows Archiv : an international journal of pathology*  
Machado, I., Charville, G. W., Yoshida, A., Navarro, S., Righi, A., Gambarotti, M., Scotlandi, K., López-Guerrero, J. A., Llombart-Bosch, A.  
2022
- **Immune imprinting, breadth of variant recognition, and germinal center response in human SARS-CoV-2 infection and vaccination.** *Cell*  
Röltgen, K., Nielsen, S. C., Silva, O., Younes, S. F., Zaslavsky, M., Costales, C., Yang, F., Wirz, O. F., Solis, D., Hoh, R. A., Wang, A., Arunachalam, P. S., Colburg, et al  
2022
- **CDX2 expression in malignant peripheral nerve sheath tumor: A potential diagnostic pitfall associated with PRC2 inactivation.** *Histopathology*  
Odeyemi, O. O., Ozawa, M. G., Charville, G. W.

2022

- **Immune checkpoint upregulation in periprosthetic joint infection.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*  
Warren, S. I., Charville, G. W., Manasherob, R., Amanatullah, D. F.  
2022
- **Methylation profiling reveals novel molecular classes of rhabdomyosarcoma.** *Scientific reports*  
Clay, M. R., Patel, A., Tran, Q., Hedges, D. J., Chang, T. C., Stewart, E., Charville, G., Cline, C., Dyer, M. A., Orr, B. A.  
2021; 11 (1): 22213
- **Acinar cell clonal expansion in pancreas homeostasis and carcinogenesis.** *Nature*  
Neuhofer, P., Roake, C. M., Kim, S. J., Lu, R. J., West, R. B., Charville, G. W., Artandi, S. E.  
2021
- **Hairless regulates heterochromatin maintenance and muscle stem cell function as a histone demethylase antagonist.** *Proceedings of the National Academy of Sciences of the United States of America*  
Liu, L., Rodriguez-Mateo, C., Huang, P., Huang, A., Lieu, A., Mao, M., Chung, M., Yang, S., Yu, K., Charville, G. W., Gan, Q., Rando, T. A.  
2021; 118 (37)
- **Quantitative image features from radiomic biopsy differentiate oncocytoma from chromophobe renal cell carcinoma.** *Journal of medical imaging (Bellingham, Wash.)*  
Jaggi, A., Mastrodicasa, D., Charville, G. W., Jeffrey, R. B., Napel, S., Patel, B.  
2021; 8 (5): 054501
- **Management Strategies for Patients With Epithelioid Hemangioendothelioma: Charting an Indolent Disease Course.** *American journal of clinical oncology*  
Yurkiewicz, I. R., Zhou, M., Ganjoo, K. N., Charville, G. W., Bolleddu, S., Lohman, M., Bui, N.  
2021
- **Diagnosis of soft tissue tumors using immunohistochemistry as a surrogate for recurrent fusion oncoproteins.** *Seminars in diagnostic pathology*  
Black, M. A., Charville, G. W.  
2021
- **A Retrospective Comparative Analysis of Outcomes and Prognostic Factors in Adult and Pediatric Patients with Osteosarcoma.** *Current oncology (Toronto, Ont.)*  
Testa, S., Hu, B. D., Saadeh, N. L., Pribnow, A., Spunt, S. L., Charville, G. W., Bui, N. Q., Ganjoo, K. N.  
2021; 28 (6): 5304-5317
- **Well-differentiated lipomatous neoplasms with p53 alterations: A clinicopathologic and molecular study of eight cases with features of atypical pleomorphic lipomatous tumor.** *Histopathology*  
Hammer, P. M., Kunder, C. A., Howitt, B. E., Charville, G. W.  
2021
- **Hereditary inflammatory fibroid polyps caused by germline pathogenic variants in PDGFRA: Refining PDGFRA-mutation syndrome.** *Cancer genetics*  
Hodan, R., Charville, G. W., Ladabaum, U.  
2021; 256-257: 106-109
- **PAX7 Is a Sensitive Marker of Skeletal Muscle Differentiation in Rhabdomyosarcoma and Tumors With Rhabdomyosarcomatous Differentiation in the Female Genital Tract.** *International journal of gynecological pathology : official journal of the International Society of Gynecological Pathologists*  
Weiel, J. J., Kokh, D., Charville, G. W., Longacre, T. A.  
2021
- **Nodular fasciitis of the breast: clinicopathologic and molecular characterization with identification of novel USP6 fusion partners.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Cloutier, J. M., Kunder, C. A., Charville, G. W., Hosfield, E. M., Garcia, J. J., Brown, R. A., Troxell, M. L., Allison, K. H., Bean, G. R.  
2021

- **PDGFRA Immunohistochemistry Predicts PDGFRA Mutations in Gastrointestinal Stromal Tumors.** *The American journal of surgical pathology*  
Papke, D. J., Forgó, E. n., Charville, G. W., Hornick, J. L.  
2021
- **PDGFB RNA in situ hybridization for the diagnosis of dermatofibrosarcoma protuberans.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Cloutier, J. M., Allard, G. n., Bean, G. R., Hornick, J. L., Charville, G. W.  
2021
- **Surgical resection of leiomyosarcoma of the inferior vena cava: A case series and literature review.** *Surgical oncology*  
Zhou, M., Javadi, C., Charville, G. W., Bui, N. Q., Harris, E. J., Poultides, G. A., Norton, J. A., Visser, B., Lee, B., Dua, M. M., Ganjoo, K. N.  
2021; 39: 101670
- **Nuclear expression of DDIT3 distinguishes high-grade myxoid liposarcoma from other round cell sarcomas.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Baranov, E. n., Black, M. A., Fletcher, C. D., Charville, G. W., Hornick, J. L.  
2021
- **Distantly Metastatic Retinoblastoma to Soft Tissue and Bone: A Challenging Diagnosis Highlighting the Utility of CRX.** *The American journal of surgical pathology*  
Meredith, D. M., Charville, G. W., Fletcher, C. D., Hornick, J. L.  
2020
- **Clinicopathologic characterization of malignant chondroblastoma: a neoplasm with locally aggressive behavior and metastatic potential that closely mimics chondroblastoma-like osteosarcoma.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Papke, D. J., Hung, Y. P., Schaefer, I. M., Bredella, M. A., Charville, G. W., Reith, J. D., Fletcher, C. D., Nielsen, G. P., Hornick, J. L.  
2020
- **Angiosarcoma of the Breast: Management and Outcomes.** *American journal of clinical oncology*  
Gutkin, P. M., Ganjoo, K. N., Lohman, M. n., von Eyben, R. n., Charville, G. W., Nazerali, R. S., Dirbas, F. M., Horst, K. C.  
2020
- **AGER1 downregulation associates with fibrosis in nonalcoholic steatohepatitis and type 2 diabetes.** *The Journal of clinical investigation*  
Dehnad, A. n., Fan, W. n., Jiang, J. X., Fish, S. R., Li, Y. n., Das, S. n., Mozes, G. n., Wong, K. A., Olson, K. A., Charville, G. W., Ali, M. n., Török, N. J.  
2020
- **Diffuse PRAME expression is highly specific for malignant melanoma in the distinction from clear cell sarcoma.** *Journal of cutaneous pathology*  
Raghavan, S. S., Wang, J. Y., Toland, A. n., Bangs, C. D., Rieger, K. E., Novoa, R. A., Charville, G. W., Brown, R. A.  
2020
- **MUC4 is expressed in alveolar rhabdomyosarcoma.** *Histopathology*  
Forgó, E. n., Hornick, J. L., Charville, G. W.  
2020
- **Tenosynovial giant cell tumor of the suboccipital region - A rare, benign neoplasm in this location.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*  
Singh, R. n., Stienen, M. N., Ganjoo, K. n., Kolahi, K. S., Cayrol, R. n., Charville, G. W., Born, D. E., Zygorakis, C. C.  
2020
- **DDIT3 Immunohistochemistry Is a Useful Tool for the Diagnosis of Myxoid Liposarcoma.** *The American journal of surgical pathology*  
Scapa, J. V., Cloutier, J. M., Raghavan, S. S., Peters-Schulze, G. n., Varma, S. n., Charville, G. W.  
2020
- **"Inflammatory Leiomyosarcoma" and "Histiocyte-rich Rhabdomyoblastic Tumor": a clinicopathological, immunohistochemical and genetic study of 13 cases, with a proposal for reclassification as "Inflammatory Rhabdomyoblastic Tumor".** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Cloutier, J. M., Charville, G. W., Mertens, F. n., Sukov, W. n., Fritchie, K. n., Perry, K. D., Edgar, M. n., Rowsey, R. A., Folpe, A. L.  
2020

- **Sinonasal FUS-ERG-Rearranged Ewing's Sarcoma Mimicking Glomangiopericytoma.** *Case reports in oncology*  
Zhou, M. n., Ko, Y. C., Charville, G. W., Ganjoo, K. N.  
2020; 13 (3): 1393–96
- **Disseminated Pneumocystis jirovecii Infection with Osteomyelitis in a Patient with CTLA-4 Haploinsufficiency.** *Journal of clinical immunology*  
Siddiqi, A. E., Liu, A. Y., Charville, G. W., Kunder, C. A., Uzel, G. n., Sadighi Akha, A. A., Oak, J. n., Martin, B. n., Sacha, J. n., Lewis, D. B., Gemez, Y. n.  
2020
- **Non-phagocytic Activation of NOX2 is Implicated in Progressive Non-alcoholic Steatohepatitis During Aging.** *Hepatology (Baltimore, Md.)*  
Jiang, J. X., Fish, S. R., Tomilov, A. n., Li, Y. n., Fan, W. n., Dehnad, A. n., Gae, D. n., Das, S. n., Mozes, G. n., Charville, G. W., Ramsey, J. n., Cortopassi, G. n., Török, et al  
2020
- **OLIG2 is a marker of the fusion protein-driven neurodevelopmental transcriptional signature in alveolar rhabdomyosarcoma.** *Human pathology*  
Raghavan, S. S., Mooney, K. L., Folpe, A. L., Charville, G. W.  
2019
- **INSM1 Expression in Peripheral Neuroblastic Tumors and Other Embryonal Neoplasms.** *Pediatric and developmental pathology : the official journal of the Society for Pediatric Pathology and the Paediatric Pathology Society*  
Wang, H. n., Krishnan, C. n., Charville, G. W.  
2019: 1093526619843725
- **Diagnostic classification of soft tissue malignancies: A review and update from a surgical pathology perspective.** *Current problems in cancer*  
Cloutier, J. M., Charville, G. W.  
2019
- **Immune checkpoint blockade as a potential therapeutic strategy for undifferentiated malignancies.** *Human pathology*  
Devereaux, K. A., Charu, V., Zhao, S., Charville, G. W., Bangs, C. D., van de Rijn, M., Cherry, A. M., Natkunam, Y.  
2018; 82: 39–45
- **Impaired Notch Signaling Leads to a Decrease in p53 Activity and Mitotic Catastrophe in Aged Muscle Stem Cells.** *Cell stem cell*  
Liu, L., Charville, G. W., Cheung, T. H., Yoo, B., Santos, P. J., Schroeder, M., Rando, T. A.  
2018
- **When Lightning Strikes Twice.** *Digestive diseases and sciences*  
Baiu, I. n., Charville, G. W., Visser, B. C.  
2018
- **A Chance to Cut Is a Chance to Cure: Endoscopic Submucosal Dissection for Early Gastric Cancer.** *Digestive diseases and sciences*  
Huang, R. J., Charville, G. W., Hwang, J. H., Friedland, S. n.  
2018
- **Bioengineered Viral Platform for Intramuscular Passive Vaccine Delivery to Human Skeletal Muscle.** *Molecular therapy. Methods & clinical development*  
Pauk, N. K., Pekrun, K. n., Charville, G. W., Maguire-Nguyen, K. n., Wosczyzna, M. N., Xu, J. n., Zhang, Y. n., Lisowski, L. n., Yoo, B. n., Vilches-Moure, J. G., Lee, G. K., Shrager, J. B., Rando, et al  
2018; 10: 144–55
- **Serous Neoplasms of the Pancreas: A Comprehensive Review.** *Archives of pathology & laboratory medicine*  
Charville, G. W., Kao, C. S.  
2018; 142 (9): 1134–40
- **Resolution of Crizotinib-Associated Fulminant Hepatitis following Cessation of Treatment.** *Case reports in hepatology*  
Charville, G. W., Padda, S. K., Sibley, R. K., Puthillath, A., Kwo, P. Y.  
2018; 2018: 3413592
- **Immunohistochemistry for PAX7 is a useful confirmatory marker for Ewing sarcoma in decalcified bone marrow core biopsy specimens.** *Virchows Archiv : an international journal of pathology*

- Fernandez-Pol, S. n., van de Rijn, M. n., Natkunam, Y. n., Charville, G. W.  
2018
- **PAX7 expression in sarcomas bearing the EWSR1-NFATC2 translocation.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Charville, G. W., Wang, W. L., Ingram, D. R., Roy, A. n., Thomas, D. n., Patel, R. M., Hornick, J. L., van de Rijn, M. n., Lazar, A. J.  
2018
  - **The SS18-SSX Fusion Oncoprotein Hijacks BAF Complex Targeting and Function to Drive Synovial Sarcoma.** *Cancer cell*  
McBride, M. J., Pulice, J. L., Beird, H. C., Ingram, D. R., D'Avino, A. R., Shern, J. F., Charville, G. W., Hornick, J. L., Nakayama, R. T., Garcia-Rivera, E. M., Araujo, D. M., Wang, W. L., Tsai, et al  
2018
  - **Gastrointestinal Tract Vasculopathy: Clinicopathology and Description of a Possible "New Entity" With Protean Features.** *The American journal of surgical pathology*  
Louie, C. Y., DiMaio, M. A., Charville, G. W., Berry, G. J., Longacre, T. A.  
2018
  - **Prognostic Gene Expression Signatures in Sarcoma: Finding Clarity in Complexity.** *Annals of oncology : official journal of the European Society for Medical Oncology*  
Charville, G. W., Lazar, A. J.  
2017
  - **Endoscopic Resection of Skull Base Teratoma in Klippel-Feil Syndrome through Use of Combined Ultrasonic and Bipolar Diathermy Platforms.** *Case reports in otolaryngology*  
Edward, J. A., Psaltis, A. J., Williams, R. A., Charville, G. W., Dodd, R. L., Nayak, J. V.  
2017; 2017: 6384586-?
  - **Surgical Pathology of Gastrointestinal Stromal Tumors: Practical Implications of Morphologic and Molecular Heterogeneity for Precision Medicine.** *Advances in anatomic pathology*  
Charville, G. W., Longacre, T. A.  
2017
  - **Evidence for a 'preinvasive' variant of fungal sinusitis: Tissue invasion without angioinvasion.** *World journal of otorhinolaryngology - head and neck surgery*  
Paknezhad, H. n., Borchard, N. A., Charville, G. W., Ayoub, N. F., Choby, G. W., Thamboo, A. n., Nayak, J. V.  
2017; 3 (1): 37-43
  - **Pathways to clinical CLARITY: volumetric analysis of irregular, soft, and heterogeneous tissues in development and disease.** *Scientific reports*  
Hsueh, B. n., Burns, V. M., Pauerstein, P. n., Holzem, K. n., Ye, L. n., Engberg, K. n., Wang, A. C., Gu, X. n., Chakravarthy, H. n., Arda, H. E., Charville, G. n., Vogel, H. n., Efimov, et al  
2017; 7 (1): 5899
  - **EWSR1 fusion proteins mediate PAX7 expression in Ewing sarcoma.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Charville, G. W., Wang, W. L., Ingram, D. R., Roy, A. n., Thomas, D. n., Patel, R. M., Hornick, J. L., van de Rijn, M. n., Lazar, A. J.  
2017
  - **PAX7 Expression in Rhabdomyosarcoma, Related Soft Tissue Tumors, and Small Round Blue Cell Neoplasms.** *American journal of surgical pathology*  
Charville, G. W., Varma, S., Forgó, E., Dumont, S. N., Zambrano, E., Trent, J. C., Lazar, A. J., van de Rijn, M.  
2016; 40 (10): 1305-1315
  - **Ex Vivo Expansion and In Vivo Self-Renewal of Human Muscle Stem Cells** *STEM CELL REPORTS*  
Charville, G. W., Cheung, T. H., Yoo, B., Santos, P. J., Lee, G. K., Shrager, J. B., Rando, T. A.  
2015; 5 (4): 621-632
  - **Isolation of skeletal muscle stem cells by fluorescence-activated cell sorting** *NATURE PROTOCOLS*  
Liu, L., Cheung, T. H., Charville, G. W., Rando, T. A.  
2015; 10 (10): 1612-1624

- **Bordetella petrii Sinusitis in an Immunocompromised Adolescent.** *Pediatric infectious disease journal*  
Nagata, J. M., Charville, G. W., Klotz, J. M., Wickremasinghe, W. R., Kann, D. C., Schwenk, H. T., Longhurst, C. A.  
2015; 34 (4): 458-?
- **mTORC1 controls the adaptive transition of quiescent stem cells from G0 to G(Alert).** *Nature*  
Rodgers, J. T., King, K. Y., Brett, J. O., Cromie, M. J., Charville, G. W., Maguire, K. K., Brunson, C., Mastey, N., Liu, L., Tsai, C., Goodell, M. A., Rando, T. A.  
2014; 510 (7505): 393-396
- **The mortal strand hypothesis: Non-random chromosome inheritance and the biased segregation of damaged DNA.** *Seminars in cell & developmental biology*  
Charville, G. W., Rando, T. A.  
2013; 24 (8-9): 653-660
- **Chromatin Modifications as Determinants of Muscle Stem Cell Quiescence and Chronological Aging** *CELL REPORTS*  
Liu, L., Cheung, T. H., Charville, G. W., Hurgo, B. M., Leavitt, T., Shih, J., Brunet, A., Rando, T. A.  
2013; 4 (1): 189-204
- **A sexy spin on nonrandom chromosome segregation.** *Cell stem cell*  
Charville, G. W., Rando, T. A.  
2013; 12 (6): 641-643
- **Maintenance of muscle stem-cell quiescence by microRNA-489** *NATURE*  
Cheung, T. H., Quach, N. L., Charville, G. W., Liu, L., Park, L., Edalati, A., Yoo, B., Hoang, P., Rando, T. A.  
2012; 482 (7386): 524-U247
- **Stem cell ageing and non-random chromosome segregation** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*  
Charville, G. W., Rando, T. A.  
2011; 366 (1561): 85-93
- **Reduced bacterial adhesion to fibrinogen-coated substrates via nitric oxide release** *BIOMATERIALS*  
Charville, G. W., Hetrick, E. M., Geer, C. B., Schoenfisch, M. H.  
2008; 29 (30): 4039-4044
- **Nitric oxide-releasing xerogel-based fiber-optic pH sensors** *ANALYTICAL CHEMISTRY*  
Dobmeier, K. P., Charville, G. W., Schoenfisch, M. H.  
2006; 78 (21): 7461-7466