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CLINICAL OFFICE (PRIMARY)

- **Department of Pathology**

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CLINICAL FOCUS

- Anatomic and Clinical Pathology

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Pathology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Pathology, American Board of Pathology (2019)
- Board Certification, Pediatric Pathology , American Board of Pathology (2019)
- Board Certification: Anatomic and Clinical Pathology, American Board of Pathology (2017)
- Fellowship: Ann and Robert H Lurie Children's Hospital Pediatric Pathology Fellowship (2019) IL
- Fellowship: Stanford University Surgical Pathology Fellowship (2018) CA
- Residency: Stanford University Pathology Residency (2017) CA
- Postdoctoral Fellowship, Stanford University Department of Biochemistry (2014)
- Residency, Stanford University General Surgery Residency , CA (2013)
- Medical Education: Duke University School of Medicine (2008) NC

Publications

PUBLICATIONS

- **Aggressive Pediatric Primitive Round Cell Tumors with MN1::ZNF341 Fusion: A Mimic of Neuroblastoma.** *Pediatric blood & cancer* Tan, S. Y., Evans, M. G., Saab, R., Gupta, A., Reid, J., Dao, T., Rubin, E., Crymes, A., Semenova, K., Shimada, H., Livasy, C., Nael, A. 2024: e31425
- **A lymphocyte chemoaffinity axis for lung, non-intestinal mucosae and CNS.** *Nature* Ocón, B., Xiang, M., Bi, Y., Tan, S., Brulois, K., Ayesha, A., Kunte, M., Zhou, C., LaJevic, M., Lazarus, N., Mengoni, F., Sharma, T., Montgomery, et al

2024

- **Crystalline Hepatopathy Associated With Bietti Crystalline Dystrophy: A Striking Manifestation of Disordered Fatty Acid Metabolism.** *The American journal of surgical pathology*
Dulken, B. W., Bahceci, D., Leung, L. S., Mahajan, V. B., Choi, W. T., Tan, S. Y.
2024
- **Perivascular Epithelioid Cell-Family Tumors in Children, Adolescents and Young Adults: Clinicopathologic Features in 70 Cases.** *Archives of pathology & laboratory medicine*
Hammer, P. M., Toland, A., Shaheen, M., Shenoy, A., Esnakula, A., Hicks, M. J., Warran, M., Al-Ibraheemi, A., Davis, J. L., Tan, S. Y.
2024
- **Soft Tissue Perivascular Epithelioid Cell Tumors.** *Surgical pathology clinics*
Hammer, P. M., Tan, S. Y.
2024; 17 (1): 105-118
- **Clinical Features of SARS-CoV-2 Infection During Pregnancy and Associated Placental Pathologies** *INTERNATIONAL JOURNAL OF GYNECOLOGICAL PATHOLOGY*
Ryan, E. E., Brar, N., Allard, G., Wang, A., Winn, V. D., Folkins, A., Yang, E. J., Tan, S., Hazard, F. K., Howitt, B. E.
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- **Melanoma in infants, caused by a gene fusion involving the anaplastic lymphoma kinase (ALK).** *Pigment cell & melanoma research*
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2023
- **The Pathologic Diagnosis of Pediatric Soft Tissue Tumors in the Era of Molecular Medicine: The Sarcoma Pediatric Pathology Research Interest Group Perspective.** *Archives of pathology & laboratory medicine*
Black, J. O., Al-Ibraheemi, A., Arnold, M. A., Coffin, C. M., Davis, J. L., Parham, D. M., Rudzinski, E. R., Shenoy, A., Surrey, L. F., Tan, S. Y., Spunt, S. L.
2023
- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*
Jones, R. C., Karknias, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al
2022; 376 (6594): eabl4896
- **Dissecting alveolar patterning and maintenance at single-cell resolution.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
Gillich, A., Brownfield, D. G., Travaglini, K. J., Zhang, F., Farmer, C. G., St Julien, K. R., Tan, S. Y., Gu, M., Zhou, B., Feinstein, J. A., Metzger, R. J., Krasnow, M. A.
2022; 36 Suppl 1
- **Publisher Correction: Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
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2022
- **Leiomyomatosis in an Infant With a SUFU Splice Site Variant: Case Report.** *Journal of pediatric hematology/oncology*
Rao, R. R., Dulken, B. W., Matalon, D. R., Borensztein, M., McGuinness, M., Cizek, S. M., Bruzoni, M., Tan, S. Y., Kreimer, S.
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2022
- **Intestinal Failure in Junctional Epidermolysis Bullosa: Mild Skin Disease, Severe Diarrhea.** *Digestive diseases and sciences*
DeMaria, K. A., Fink, C., Pepper, M., Rieger, K., Tan, S. Y., Namjoshi, S. S.
2022

- **ALK rearrangements in infantile fibrosarcoma-like spindle cell tumors of soft tissue and kidney.** *Histopathology*
Tan, S. Y., Al-Ibraheemi, A., Arhens, W. A., Oesterheld, J. E., Fanburg-Smith, J. C., Liu, Y. J., Spunt, S. L., Rudzinski, E. R., Coffin, C., Davis, J. L.
2021
- **Severe delayed hypersensitivity reactions to IL-1 and IL-6 inhibitors link to common HLA-DRB1*15 alleles.** *Annals of the rheumatic diseases*
Saper, V. E., Ombrello, M. J., Tremoulet, A. H., Montero-Martin, G., Prahalad, S., Canna, S., Shimizu, C., Deutsch, G., Tan, S. Y., Remmers, E. F., Monos, D., Hahn, T., Phadke, et al
2021
- **Hepatogonadal fusion in a neonate with testicular torsion** *JOURNAL OF PEDIATRIC SURGERY CASE REPORTS*
Yun, C. J., Tan, S., Mueller, C. M.
2021; 74
- **RNA splicing programs define tissue compartments and cell types at single cell resolution.** *eLife*
Olivieri, J. E., Dehghannasiri, R., Wang, P. L., Jang, S., de Morree, A., Tan, S. Y., Ming, J., Ruohao Wu, A., Tabula Sapiens Consortium, Quake, S. R., Krasnow, M. A., Salzman, J.
2021; 10
- **Arteriovenous Malformations-Current Understanding of the Pathogenesis with Implications for Treatment.** *International journal of molecular sciences*
Schimmel, K., Ali, M. K., Tan, S. Y., Teng, J., Do, H. M., Steinberg, G. K., Stevenson, D. A., Spiekerkoetter, E.
2021; 22 (16)
- **Sclerosing Epithelioid Fibrosarcoma of the Kidney: First Reported Case in a Young Child.** *Pediatric and developmental pathology : the official journal of the Society for Pediatric Pathology and the Paediatric Pathology Society*
Kurtz, J. L., Tan, S. Y., Hazard, F. K.
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- **Dissecting the Cardiac Conduction System: Is It Worthwhile?** *Pediatric and developmental pathology : the official journal of the Society for Pediatric Pathology and the Paediatric Pathology Society*
Tan, S. Y., Fritsch, M. K., White, S., Arva, N. C.
2020: 1093526620944756
- **Barrett Esophagus and Intestinal Metaplasia of the Gastroesophageal Junction in Children: A Clinicopathologic Study.** *Journal of pediatric gastroenterology and nutrition*
Putra, J., Arva, N. C., Tan, S. Y., Melin-Aldana, H., Bass, L. M., Mitchell, P. D., Fox, V. L., Goldsmith, J. D.
2020; 70 (5): 562-567
- **Capillary cell-type specialization in the alveolus.** *Nature*
Gillich, A. n., Zhang, F. n., Farmer, C. G., Travaglini, K. J., Tan, S. Y., Gu, M. n., Zhou, B. n., Feinstein, J. A., Krasnow, M. A., Metzger, R. J.
2020
- **Gonadal Tissue Cryopreservation for Children with Differences of Sex Development** *HORMONE RESEARCH IN PAEDIATRICS*
Johnson, E. K., Finlayson, C., Finney, E. L., Harris, C. J., Tan, S. Y., Laronda, M. M., Lockart, B. A., Chen, D., Rowell, E. E., Cheng, E. Y., Yerkes, E. B.
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- **Solitary Fibrous Tumors in Pediatric Patients: A Rare and Potentially Overdiagnosed Neoplasm, Confirmed by STAT6 Immunohistochemistry** *PEDIATRIC AND DEVELOPMENTAL PATHOLOGY*
Tan, S. Y., Szymanski, L. J., Galliani, C., Parham, D., Zambrano, E.
2018; 21 (4): 389-400
- **Thrombotic Microangiopathy with Intraglomerular Monoclonal IgM Pseudothrombi**
Tan, S., Sibley, R., Higgins, J., Kambham, N., Troxell, M.
NATURE PUBLISHING GROUP.2018: 618
- **Single-cell transcriptomics of 20 mouse organs creates a Tabula Muris.** *Nature*
2018; 562 (7727): 367-72
- **Pleomorphic myxoid liposarcoma in an adolescent with Li-Fraumeni syndrome.** *Pediatric surgery international*
Sinclair, T. J., Thorson, C. M., Alvarez, E., Tan, S., Spunt, S. L., Chao, S. D.

2017

- **BRAF inhibitor treatment of primary BRAF-mutant ameloblastoma with pathologic assessment of response** *ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY*
Tan, S., Pollack, J. R., Kaplan, M. J., Colevas, A. D., West, R. B.
2016; 122 (1): E5-E7
- **Developmental origin of lung macrophage diversity** *DEVELOPMENT*
Tan, S. Y., Krasnow, M. A.
2016; 143 (8): 1318-1327
- **A novel laparoscopic-assisted approach to the repair of pediatric femoral hernias.** *Journal of laparoendoscopic & advanced surgical techniques. Part A*
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2013; 23 (11): 946-948
- **Heterotaxy and complex structural heart defects in a mutant mouse model of primary ciliary dyskinesia** *JOURNAL OF CLINICAL INVESTIGATION*
Tan, S. Y., Rosenthal, J., Zhao, X., Francis, R. J., Chatterjee, B., Sabol, S. L., Linask, K. L., Bracero, L., Connelly, P. S., Daniels, M. P., Yu, Q., Omran, H., Leatherbury, et al
2007; 117 (12): 3742-3752