

# Stanford

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## Serena Tan

Assistant Professor of Pathology

### CLINICAL OFFICE (PRIMARY)

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### Bio

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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

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#### PUBLICATIONS

- **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.

2024; 43 (1): 15-24

● **Melanoma in infants, caused by a gene fusion involving the anaplastic lymphoma kinase (ALK).** *Pigment cell & melanoma research*

Perkins, I. U., Tan, S. Y., McCalmont, T. H., Chou, P. M., Mully, T. W., Gerami, P., Pomerantz, J. H., Reyes-Múgica, M., Balkin, D. M., Kruse, L. L., Huang, B., Reichek, J. L., Gangopadhyay, et al

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., Karkanias, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaup, 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*

Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaup, B., Brown, P., et al

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.

2022

● **Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*

Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaup, B., Brown, P., et al

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.  
2021: 1093526620977738
- **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.  
2020; 92 (2): 84–91
- **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*  
Tan, S. Y., Stevens, M. J., Mueller, C. M.  
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

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