

Stanford



Simon Boyi Chen

- Affiliate, Dean's Office Operations - Dean Other
- Fellow in Pathology
- Resident in Pathology
- 📄 Curriculum Vitae available Online

Bio

BIO

I completed an undergraduate degree in Biological Chemistry at the University of Toronto, followed by a medical degree at the Washington University School of Medicine in St. Louis, and residency in Anatomic and Clinical Pathology at Stanford Health Care (SHC). I am currently enrolled in the fellowship program in Molecular Genetic Pathology at SHC, and am slated to complete fellowship training in Surgical Pathology there as well. My interests include oncologic pathology, cardiothoracic pathology, molecular pathology, and applications of artificial intelligence and digital imaging in pathology.

CLINICAL FOCUS

- Molecular Genetic Pathology
- Oncologic Pathology
- Cardiothoracic Pathology
- Digital Pathology
- Artificial Intelligence Applications in Pathology
- Quality Assurance and Improvement
- Fellow

HONORS AND AWARDS

- Patient Safety Star Award, Stanford Health Care (March 2019)
- Howard A. McCordock Prize in Pathology, Washington University School of Medicine (November 2014)
- Antoinette Frances Dames Award in Cell Biology and Physiology, Washington University School of Medicine (November 2013)
- Governor General's Silver Academic Medal, University of Toronto (June 2012)
- John Black Aird Scholarship, University of Toronto (June 2012)
- Chancellor's Gold Medal in Science, Trinity College, University of Toronto (June 2012)
- Gordon Cressy Student Leadership Award, University of Toronto (March 2012)

PROFESSIONAL EDUCATION

- MD, Washington University School of Medicine in St. Louis (2016)
- BSc, Faculty of Arts and Science, University of Toronto, Biological Chemistry (2012)

PERSONAL INTERESTS

History, psychology, ethics

Publications

PUBLICATIONS

- **Artificial Intelligence for Prediction of Donor Liver Allograft Steatosis and Early Post-Transplantation Graft Failure**
Narayan, R., Abadilla, N., Yang, L., Chen, S., Higgins, J., Melcher, M.
WILEY.2021: 16–17
- **Atypical Blastomycosis Masquerading as Lofgren Syndrome.** *American journal of respiratory and critical care medicine*
Shaller, B. D., Chen, S. B., Ho, D. Y., Yu, D. H.
2020
- **NuSeT: A deep learning tool for reliably separating and analyzing crowded cells** *PLoS Computational Biology*
Yang, L., et al
2020
- **Impact of a deep learning assistant on the histopathologic classification of liver cancer.** *NPJ digital medicine*
Kiani, A. n., Uyumazturk, B. n., Rajpurkar, P. n., Wang, A. n., Gao, R. n., Jones, E. n., Yu, Y. n., Langlotz, C. P., Ball, R. L., Montine, T. J., Martin, B. A., Berry, G. J., Ozawa, et al
2020; 3: 23
- **Impact of a deep learning assistant on the histopathologic classification of liver cancer.** *NPJ digital medicine*
Kiani, A. n., Uyumazturk, B. n., Rajpurkar, P. n., Wang, A. n., Gao, R. n., Jones, E. n., Yu, Y. n., Langlotz, C. P., Ball, R. L., Montine, T. J., Martin, B. A., Berry, G. J., Ozawa, et al
2020; 3 (1): 23
- **Quantification of Donor Liver Steatosis Using an Unsupervised Artificial Intelligence Platform**
Narayan, R., Abadilla, N., Yang, L., Hsu, C., Jensen, C., Chen, S. B., Higgins, J. P., Melcher, M. L.
ELSEVIER SCIENCE INC.2019: E151
- **Detection and Surveillance of Bladder Cancer Using Urine Tumor DNA** *CANCER DISCOVERY*
Dudley, J. C., Schroers-Martin, J., Lazzareschi, D., Shi, W., Chen, S. B., Esfahani, M. S., Trivedi, D., Chabon, J. J., Chaudhuri, A. A., Stehr, H., Liu, C., Lim, H., Costa, et al
2019; 9 (4): 500–509
- **Decidual granulomatous reaction in a placenta from a preeclamptic pregnancy: a case report and review of the literature** *VIRCHOWS ARCHIV*
Chen, S. B., Kudose, S., Krigman, H. R.
2018; 472 (4): 689–92
- **Detection of Large Chromosomal Abnormalities in Tumors through Analysis of Off-Target Next-Generation Sequencing (NGS) Read Data**
Chen, S. B., Stehr, H., Zehnder, J. L., Dudley, J. C.
NATURE PUBLISHING GROUP.2018: 804
- **Detection of Large Chromosomal Abnormalities in Tumors through Analysis of Off-Target Next-Generation Sequencing (NGS) Read Data**
Chen, S. B., Stehr, H., Zehnder, J. L., Dudley, J. C.
NATURE PUBLISHING GROUP.2018: 804
- **Detection and surveillance of bladder cancer using urine tumor DNA.** *Cancer discovery*
Dudley, J. C., Schroers-Martin, J. n., Lazzareschi, D. V., Shi, W. Y., Chen, S. B., Esfahani, M. S., Trivedi, D. n., Chabon, J. J., Chaudhuri, A. A., Stehr, H. n., Liu, C. L., Lim, H. n., Costa, et al
2018
- **Smooth-Muscle Myopathy in Systemic Lupus Erythematosus Presenting With Intestinal Pseudo-Obstruction.** *American journal of gastroenterology*
Yang, C., Chen, S., Gaut, J. P., Dehner, L. P.
2016; 111 (10): 1501-1502
- **Does the method of radiologic surveillance affect survival after resection of stage I non-small cell lung cancer?** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Crabtree, T. D., Puri, V., Chen, S. B., Gierada, D. S., Bell, J. M., Broderick, S., Krupnick, A. S., Kreisel, D., Patterson, G. A., Meyers, B. F.
2015; 149 (1): 45-?

- **Quantitative Analysis of the Effects of Photoswitchable Distance Constraints on the Structure of a Globular Protein** *BIOCHEMISTRY*

Beharry, A. A., Chen, T., Al-Abdul-Wahid, M. S., Samanta, S., Davidov, K., Sadovski, O., Ali, A. M., Chen, S. B., Prosser, R. S., Chan, H. S., Woolley, G. A.
2012; 51 (32): 6421-6431