Stanford

Songnan Wang

MD Student, expected graduation Spring 2027

Publications

PUBLICATIONS

- **ENPP1 buffers extracellular cGAMP in brown adipose tissue to limit insulin resistance.** *Cell reports*
  Wang, S., Guo, Y., An, W., Lee, J. M., Li, Y., Sudaryo, V., Carozza, J. A., Grenot, G., Skariah, G., Reghupaty, S. C., Young, S., Bai, X., Svensson, et al
  2026; 45 (10): 118009

- **ENPP1 buffers extracellular cGAMP in brown adipose tissue to limit insulin resistance.** *bioRxiv : the preprint server for biology*
  Wang, S., Guo, Y., An, W., Lee, M., Li, Y., Sudaryo, V., Grenot, G., Skariah, G., Reghupaty, S. C., Young, S., Bai, X., Svensson, K. J., Li, et al
  2026

- **Health-Related Quality of Life in Patients Undergoing Cardiac Surgeries in Low- and Lower-Middle-Income Countries: A Systematic Review and Meta-Analysis** *JOURNAL OF CARDIAC SURGERY*
  Wang, S., Tabrizi, N., Wang, E. Y., Min, J., Musoni, M., Lin, Y.
  2026; 2026 (1)

- **ENPP1 inhibitor with ultralong drug-target residence time as an innate immune checkpoint blockade cancer therapy.** *Cell reports. Medicine*
  Wang, S., Johnson, R. M., Carozza, J. A., Fernandez, D., Scicinski, J., Verity, N. A., Mardjuki, R., Cao, X., Guo, Y., Papkoff, J., Ray, N., Li, L.
  2025: 102336

- **A 17-Year Experience of Valvular Heart Surgery in Rwanda.** *The Annals of thoracic surgery*
  Musoni, M., Wang, S., Schulick, N., Kabano, B., Mukeshimana, G., Mucumbitsi, J., Rusingiza, E., Worrall, N., Goldberg, H., Stewart, K., Nicholson, I., Patton-Bolman, C., Bolman, et al
  2025

- **Cost-Effectiveness Analysis of Surgical Strategies Versus Medical Management for Rheumatic Heart Disease in Rwanda.** *Journal of the American Heart Association*
  Mlambo, V., Wang, S., Musoni, M., Rando, H., Ingabire, L., Patton-Bolman, C., Mukeshimana, G., Ntaganda, E., Bolman, R., Bendavid, E., Lin, Y.
  2025: e038365

- **ENPP1 inhibitor with ultralong drug-target residence time as an innate immune checkpoint blockade cancer therapy.** *bioRxiv : the preprint server for biology*
  Johnson, R. M., Wang, S., Carozza, J. A., Fernandez, D., Scicinski, J., Verity, N. A., Mardjuki, R., Cao, X., Papkoff, J., Ray, N., Li, L.
  2025

- **2-5A is an immunotransmitter that fuels RNase L immunity.** *Immunity*
  Wang, S., Li, L.
  2025; 58 (4): 770-772

- **Pilot Implementation of a Simulation-Based Surgical Curriculum for Rwandan Medical Interns.** *Journal of surgical education*
  Kirsch, M., Mpirimbanyi, C., Wang, S., Kansayisa, G., Gasakure, M., Ntirenganya, F., Lin, Y.
  2025; 82 (5): 103475

- **Cost-effectiveness analysis of valvular surgery in high- and low- to middle-income countries: A scoping review.** *World journal of surgery*
  Mlambo, V., Hyles, K., Wang, S., Lin, Y.
  2024

- **Identification of the extracellular membrane protein ENPP3 as a major cGAMP hydrolase and innate immune checkpoint.** *Cell reports*

Mardjuki, R., Wang, S., Carozza, J., Zirak, B., Subramanyam, V., Abhiraman, G., Lyu, X., Goodarzi, H., Li, L.
2024: 114209

- **ENPP1 is an innate immune checkpoint of the anticancer cGAMP-STING pathway in breast cancer.** *Proceedings of the National Academy of Sciences of the United States of America*
  Wang, S., Böhnert, V., Joseph, A. J., Sudaryo, V., Skariah, G., Swinderman, J. T., Yu, F. B., Subramanyam, V., Wolf, D. M., Lyu, X., Gilbert, L. A., Van't Veer, L. J., Goodarzi, et al
  2023; 120 (52): e2313693120

- **ENPP1 is an innate immune checkpoint of the anticancer cGAMP-STING pathway.** *bioRxiv : the preprint server for biology*
  Wang, S., Böhnert, V., Joseph, A. J., Sudaryo, V., Swinderman, J., Yu, F. B., Lyu, X., Skariah, G., Subramanyam, V., Gilbert, L. A., Goodarzi, H., Lingyin, L.
  2023

- **Critical Roles of Translation Initiation and RNA Uridylation in Endogenous Retroviral Expression and Neural Differentiation in Pluripotent Stem Cells.** *Cell reports*
  Takahashi, K., Jeong, D., Wang, S., Narita, M., Jin, X., Iwasaki, M., Perli, S. D., Conklin, B. R., Yamanaka, S.
  2020; 31 (9): 107715

- **Hypoxia and matrix viscoelasticity sequentially regulate endothelial progenitor cluster-based vasculogenesis.** *Science advances*
  Blatchley, M. R., Hall, F., Wang, S., Pruitt, H. C., Gerecht, S.
  2019; 5 (3): eaau7518

- **Modulator Effects on the Water-Based Synthesis of Zr/Hf Metal-Organic Frameworks: Quantitative Relationship Studies between Modulator, Synthetic Condition, and Performance** *CRYSTAL GROWTH & DESIGN*
  Hu, Z., Castano, I., Wang, S., Wang, Y., Peng, Y., Qan, Y., Chi, C., Wang, X., Zhao, D.
  2016; 16 (4): 2295-2301

- **Transcriptional Landscape of Cardiomyocyte Maturation.** *Cell reports*
  Uosaki, H., Cahan, P., Lee, D. I., Wang, S., Miyamoto, M., Fernandez, L., Kass, D. A., Kwon, C.
  2015; 13 (8): 1705-16

- **Combination of Optimization and Metalated-Ligand Exchange: An Effective Approach to Functionalize UiO-66(Zr) MOFs for CO2 Separation.** *Chemistry (Weinheim an der Bergstrasse, Germany)*
  Hu, Z., Faucher, S., Zhuo, Y., Sun, Y., Wang, S., Zhao, D.
  2015; 21 (48): 17246-55