Stanford



Ru M Wen

Masters Student in Biomedical Data Science, admitted Autumn 2025

Bio

HONORS AND AWARDS

- T15 postdoctoral fellowship, NLM (2025-2027)
- PCF Young Investigator Award(declined), PCF (2026-2029)
- Trainee Abstract Award, AAI (2023,2024)
- Travel Award, SBUR (2023, 2025(declined))
- DoD Early Investigator Award, DoD (2021-2023)

EDUCATION AND CERTIFICATIONS

- Master of Science, University Of New South Wales (2013)
- Doctor of Philosophy, University of Georgia (2018)
- Bachelor of Engineering, Wuhan University (2010)

Teaching

COURSES

2026-27

- Translational Bioinformatics: BMDS 217 (Spr)

Publications

PUBLICATIONS

- **Deep Intact Glycoproteomic Analysis Reveals Multi-Level Glycosylation Heterogeneity in Renal Tumors.** *Molecular & cellular proteomics : MCP*
  Garcia-Marques, F. J., Kapp, K. L., Bermudez, A., Wen, R. M., Edward W Marti, G., Rubin, J. B., Zhao, H., Brooks, J. D., Pitteri, S. J.
  2026: 101685
- **Transcriptomic analysis uncovers dysregulated glycosylation pathways in clear cell renal cell carcinoma.** *The Journal of biological chemistry*
  Wen, R. M., Marti, G. E., Nolley, R., Lam, N., Zhao, H., Peehl, D. M., Brooks, J. D.
  2026: 113620
- **AZGP1 deficiency promotes chronic kidney fibrosis in aging mice.** *American journal of clinical and experimental urology*
  Wen, R. M., Peterson, E. E., Brooks, J. D.
  2026; 14 (4): 106-111
- **Tumor immune cell targeting chimeras reprogram tumor-associated macrophages.** *Nature chemical biology*
  Morimoto, M., Roberts, D. S., Wen, R. M., Handy, E., Peterson, E. E., Stepek, G. M., Till, N. A., Brooks, J. D., Bertozzi, C. R.

2026

- **FTO inhibition attenuates renal fibrosis by downregulating ferroptosis activator ACSL4 and profibrotic factor TGFBI.** *iScience*
  Zhang, D., Chiu, C. L., Wen, R., Qiu, Z., Garcia-Marques, F., Bermudez, A., Zhao, M., Zhao, H., Dixon, S. J., Peehl, D. M., Rankin, E. B., Pitteri, S., Brooks, et al
  2025; 28 (10): 113515

- **Targeting AXL inhibits the growth and metastasis of prostate cancer in bone.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Chiu, C. L., Zhang, D., Zhao, H., Wei, Y., Polasko, A. L., Thomsen, M. T., Yang, V., Yang, K. K., Hauck, S., Peterson, E. E., Wen, R. M., Qiu, Z., Corey, et al
  2025

- **Sialylated glycoproteins suppress immune cell killing by binding to Siglec-7 and Siglec-9 in prostate cancer.** *The Journal of clinical investigation*
  Wen, R. M., Stark, J. C., Marti, G. E., Fan, Z., Lyu, A., Garcia Marques, F. J., Zhang, X., Riley, N. M., Totten, S. M., Bermudez, A., Nolley, R., Zhao, H., Fong, et al
  2024

- **AZGP1 deficiency promotes angiogenesis in prostate cancer.** *Journal of translational medicine*
  Wen, R. M., Qiu, Z., Marti, G. E., Peterson, E. E., Marques, F. J., Bermudez, A., Wei, Y., Nolley, R., Lam, N., Polasko, A. L., Chiu, C. L., Zhang, D., Cho, et al
  2024; 22 (1): 383

- **Measuring the multifaceted roles of mucin-domain glycoproteins in cancer.** *Advances in cancer research*
  Riley, N. M., Wen, R. M., Bertozzi, C. R., Brooks, J. D., Pitteri, S. J.
  2023; 157: 83-121

- **Distinguishing Renal Cell Carcinoma From Normal Kidney Tissue Using Mass Spectrometry Imaging Combined With Machine Learning.** *JCO precision oncology*
  Shankar, V., Vijayalakshmi, K., Nolley, R., Sonn, G. A., Kao, C. S., Zhao, H., Wen, R., Eberlin, L. S., Tibshirani, R., Zare, R. N., Brooks, J. D.
  2023; 7: e2200668

- **Siglec-7/9 are novel immune checkpoints for prostate cancer**
  Wen, R., Stark, J. C., Marti, G., Garcia-Marques, F., Zhao, H., Nolley, R., Bertozzi, C. R., Pitteri, S. J., Brooks, J. D.
  AMER ASSOC IMMUNOLOGISTS.2023

- **NUSAP1 Binds ILF2 to Modulate R-Loop Accumulation and DNA Damage in Prostate Cancer.** *International journal of molecular sciences*
  Chiu, C. L., Li, C. G., Verschueren, E., Wen, R. M., Zhang, D., Gordon, C. A., Zhao, H., Giaccia, A. J., Brooks, J. D.
  2023; 24 (7)

- **Siglec-7/9-sialic acid interactions inhibit T cell immune response in prostate cancer**
  Wen, R. M., Stark, J., Garcia-Marques, F., Nolley, H., Bertozzi, C. R., Pitteri, S. J., Brooks, J. D.
  AMER ASSOC CANCER RESEARCH.2022

- **Sialylated glycoproteins as biomarkers and drivers of progression in prostate cancer.** *Carbohydrate research*
  Wen, R., Zhao, H., Zhang, D., Chiu, C., Brooks, J. D.
  2022; 519: 108598

- **The DNA Repair Nuclease MRE11A Functions as a Mitochondrial Protector and Prevents T Cell Pyroptosis and Tissue Inflammation.** *Cell metabolism*
  Li, Y., Shen, Y., Jin, K., Wen, Z., Cao, W., Wu, B., Wen, R., Tian, L., Berry, G. J., Goronzy, J. J., Weyand, C. M.
  2019

- **Nanoparticle-Laden Macrophages for Tumor-Tropic Drug Delivery.** *Advanced materials (Deerfield Beach, Fla.)*
  Zhang, W., Wang, M., Tang, W., Wen, R., Zhou, S., Lee, C., Wang, H., Jiang, W., Delahunty, I. M., Zhen, Z., Chen, H., Chapman, M., Wu, et al
  2018; 30 (50): e1805557

- **Protein acylation mediates encapsulation of Src kinase into exosomes**
  Wen, R., Li, Q., Kim, S., Ma, Y., Xie, J., Cai, H.
  AMER ASSOC CANCER RESEARCH.2018

- **Core hydrophobicity tuning of a self-assembled particle results in efficient lipid reduction and favorable organ distribution.** *Nanoscale*
  Banik, B., Wen, R., Marrache, S., Kumar, A., Kolishetti, N., Howerth, E. W., Dhar, S.
  2017; 10 (1): 366-377
- **A Prodrug of Two Approved Drugs, Cisplatin and Chlorambucil, for Chemo War Against Cancer.** *Molecular cancer therapeutics*
  Pathak, R. K., Wen, R., Kolishetti, N., Dhar, S.
  2017; 16 (4): 625-636
- **The Platin-X series: activation, targeting, and delivery.** *Dalton transactions (Cambridge, England : 2003)*
  Basu, U., Banik, B., Wen, R., Pathak, R. K., Dhar, S.
  2016; 45 (33): 12992-3004
- **Turn up the cellular power generator with vitamin E analogue formulation.** *Chemical science*
  Wen, R., Dhar, S.
  2016; 7 (8): 5559-5567
- **Mitochondrion: A Promising Target for Nanoparticle-Based Vaccine Delivery Systems.** *Vaccines*
  Wen, R., Umeano, A. C., Francis, L., Sharma, N., Tundup, S., Dhar, S.
  2016; 4 (2)
- **Nanotechnology inspired tools for mitochondrial dysfunction related diseases.** *Advanced drug delivery reviews*
  Wen, R., Banik, B., Pathak, R. K., Kumar, A., Kolishetti, N., Dhar, S.
  2016; 99 (Pt A): 52-69
- **Accessing Mitochondrial Targets Using NanoCargos** *INTRACELLULAR DELIVERY III: MARKET ENTRY BARRIERS OF NANOMEDICINES*
  Wen, R., Umeano, A. C., Dhar, S.
  edited by Prokop, A., Weissig
  2016; 8: 229-254
- **Synthesis of Li₄Ti₅O₁₂ nanostructural anode materials with high charge-discharge capability** *CHINESE SCIENCE BULLETIN*
  Wen, R., Yue, J., Ma, Z., Chen, W., Jiang, X., Yu, A.
  2014; 59 (18): 2162-2174