

Stanford



Corrine Nief

MD Student, expected graduation Spring 2026

Bio

EDUCATION AND CERTIFICATIONS

- PhD, Duke University , Biomedical Engineering (2021)
- BS, Baylor University , General Engineering - Concentration in Biomedical Applications (2016)

PATENTS

- Corrine Nief. "United States Patent US10278806B2 Ureteral stent and method", Baylor University, Jan 1, 2017

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I'm interested in developing novel therapeutics that improve the quality of life for cancer patients. I'm specifically interested in women's cancers and the role of the tumor-immune microenvironment. My prior work was on developing a low-cost tumor ablation method for breast and cervical cancer to increase access to care in low-resource settings.

Current Interests: Women's Health, OB/GYN, Urology, Internal Medicine, Oncology, Interventional Oncology, Novel Therapeutics, Biomedical Engineering, Tumor Ablation, Medical Imaging

Publications

PUBLICATIONS

- **Targeting Tumor Acidosis and Regulatory T Cells Unmasks Anti-Metastatic Potential of Local Tumor Ablation in Triple-Negative Breast Cancer.** *International journal of molecular sciences*
Nief, C. A., Gonzales, A., Chelales, E., Agudogo, J. S., Crouch, B. T., Nair, S. K., Ramanujam, N.
2022; 23 (15)
- **Optimizing ethyl cellulose-ethanol delivery towards enabling ablation of cervical dysplasia.** *Scientific reports*
Mueller, J. L., Morhard, R., DeSoto, M., Chelales, E., Yang, J., Nief, C., Crouch, B., Everitt, J., Previs, R., Katz, D., Ramanujam, N.
2021; 11 (1): 16869
- **Polymer-assisted intratumoral delivery of ethanol: Preclinical investigation of safety and efficacy in a murine breast cancer model.** *PloS one*
Nief, C., Morhard, R., Chelales, E., Adrianzen Alvarez, D., Bourla Bs, I., Lam, C. T., Sag, A. A., Crouch, B. T., Mueller, J. L., Katz, D., Dewhirst, M. W., Everitt, J. I., Ramanujam, et al
2021; 16 (1): e0234535
- **Understanding Factors Governing Distribution Volume of Ethyl Cellulose-Ethanol to Optimize Ablative Therapy in the Liver.** *IEEE transactions on bio-medical engineering*
Morhard, R., Mueller, J. L., Tang, Q., Nief, C., Chelales, E., Lam, C. T., Alvarez, D. A., Rubinstein, M., Katz, D. F., Ramanujam, N.

2020; 67 (8): 2337-2348

- **Development of enhanced ethanol ablation as an alternative to surgery in treatment of superficial solid tumors.** *Scientific reports*
Morhard, R., Nief, C., Barrero Castedo, C., Hu, F., Madonna, M., Mueller, J. L., Dewhirst, M. W., Katz, D. F., Ramanujam, N.
2017; 7 (1): 8750
- **Atomistic simulations indicate the c-subunit ring of the F1Fo ATP synthase is not the mitochondrial permeability transition pore.** *eLife*
Zhou, W., Marinelli, F., Nief, C., Faraldo-Gómez, J. D.
2017; 6