



Ruwan Gunaratne

- Affiliate, Department Funds
- Fellow in Graduate Medical Education

Bio

CLINICAL FOCUS

- Fellow
- Hematology
- Medical Oncology

PROFESSIONAL EDUCATION

- Board Certification, American Board of Internal Medicine , Internal Medicine (2021)
- Residency, Stanford University , Internal Medicine (2021)
- MD, Duke University School of Medicine (2018)
- PhD, Duke University School of Medicine , Pharmacology (2018)
- MA, Harvard University , Chemistry (2009)
- BA, Harvard University , Chemistry and Physics (2009)

Publications

PUBLICATIONS

- **Development of Circulating Tumor DNA (ctDNA) for Molecular Measurable Residual Disease (MRD) in Acute Myeloid Leukemia (AML)**
Gunaratne, R., Zhou, C., Tai, J. W., Schwede, M., Tanaka, K., Alkaitis, M., Yin, R., Sworder, B. J., Mannis, G., Majeti, R., Khodadoust, M. S., Kurtz, D. M., Zhang, et al
AMER SOC HEMATOLOGY.2023
- **Combining Heparin and a FX/Xa Aptamer to Reduce Thrombin Generation in Cardiopulmonary Bypass and COVID-19.** *Nucleic acid therapeutics*
Chabata, C. V., Frederiksen, J. W., Olson, L. B., Naqvi, I. A., Hall, S. E., Gunaratne, R., Kraft, B. D., Que, L. G., Chen, L., Sullenger, B. A.
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- **Utilizing nucleic-acid scavengers (NASS) to inhibit proinflammatory and proinvasive signaling in triple-negative breast cancer**
Eteshola, E. O., Naqvi, I. A., Gunaratne, R., Moreno, A., Nair, S. K., Sullenger, B. A.
AMER ASSOC CANCER RESEARCH.2019
- **Emerging applications of aptamers for anticoagulation and hemostasis.** *Current opinion in hematology*
Chabata, C. V., Frederiksen, J. W., Sullenger, B. A., Gunaratne, R.
2018; 25 (5): 382-388
- **Combination of aptamer and drug for reversible anticoagulation in cardiopulmonary bypass.** *Nature biotechnology*
Gunaratne, R., Kumar, S., Frederiksen, J. W., Stayrook, S., Lohrmann, J. L., Perry, K., Bompiani, K. M., Chabata, C. V., Thalji, N. K., Ho, M. D., Arepally, G., Camire, R. M., Krishnaswamy, et al
2018; 36 (7): 606-613

- **Polymer-Mediated Inhibition of Pro-invasive Nucleic Acid DAMPs and Microvesicles Limits Pancreatic Cancer Metastasis.** *Molecular therapy : the journal of the American Society of Gene Therapy*
Naqvi, I., Gunaratne, R., McDade, J. E., Moreno, A., Rempel, R. E., Rouse, D. C., Herrera, S. G., Pisetsky, D. S., Lee, J., White, R. R., Sullenger, B. A.
2018; 26 (4): 1020-1031
- **Identifying protein kinase target preferences using mass spectrometry.** *American journal of physiology. Cell physiology*
Douglass, J., Gunaratne, R., Bradford, D., Saeed, F., Hoffert, J. D., Steinbach, P. J., Knepper, M. A., Pisitkun, T.
2012; 303 (7): C715-27
- **Changes in the tension in dsDNA alter the conformation of RecA bound to dsDNA-RecA filaments.** *Nucleic acids research*
Conover, A. J., Danilowicz, C., Gunaratne, R., Coljee, V. W., Kleckner, N., Prentiss, M.
2011; 39 (20): 8833-43
- **Single-molecule studies of the stringency factors and rates governing the polymerization of RecA on double-stranded DNA.** *Nucleic acids research*
Feinstein, E., Danilowicz, C., Conover, A., Gunaratne, R., Kleckner, N., Prentiss, M.
2011; 39 (9): 3781-91
- **c-Abl mediates high NaCl-induced phosphorylation and activation of the transcription factor TonEBP/OREBP.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
Gallazzini, M., Yu, M. J., Gunaratne, R., Burg, M. B., Ferraris, J. D.
2010; 24 (11): 4325-35
- **Study of force induced melting of dsDNA as a function of length and conformation.** *Journal of physics. Condensed matter : an Institute of Physics journal*
Danilowicz, C., Hatch, K., Conover, A., Ducas, T., Gunaratne, R., Coljee, V., Prentiss, M.
2010; 22 (41): 414106
- **Quantitative phosphoproteomic analysis reveals cAMP/vasopressin-dependent signaling pathways in native renal thick ascending limb cells.** *Proceedings of the National Academy of Sciences of the United States of America*
Gunaratne, R., Braucht, D. W., Rinschen, M. M., Chou, C. L., Hoffert, J. D., Pisitkun, T., Knepper, M. A.
2010; 107 (35): 15653-8