


## Alok Ranjan

Physical Science Research Scientist

Chemistry

 Resume available Online

### CONTACT INFORMATION

- **Alternate Contact**

Ranjan - Dr

**Email** ranjanalok2011iitk@gmail.com

### Bio

---

#### BIO

Accomplished Research Scientist with a rich history (6-8 years) of spearheading cutting-edge research projects. Proficient in synthesizing and analyzing new compounds with therapeutic potential. Experienced in utilizing both structure and property-based strategies to identify promising drug candidates. Led multidisciplinary teams to innovate solutions, enhanced drug discovery efficiency by integrating advanced computational techniques. Committed to continuous learning and staying well-informed of the latest trends in medicinal chemistry and drug design.

#### ACADEMIC APPOINTMENTS

- Phys Sci Res Assoc, Chemistry

### Publications

---

#### PUBLICATIONS

- **Novel orexin receptor agonists based on arene- or pyridine-fused 1,3-dihydro-2H-imidazole-2-imines** *BIOORGANIC & MEDICINAL CHEMISTRY LETTERS*  
Wang, W., Ranjan, A., Zhang, W., Liang, Q., MacMillan, K. S., Chapman, K., Wang, X., Chandrasekaran, P., Williams, N. S., Rosenbaum, D. M., De Brabander, J. K.  
2024; 99: 129624
- **Defining the Effects of PKC Modulator HIV Latency-Reversing Agents on Natural Killer Cells** *Defining the Effects of PKC Modulator HIV Latency-Reversing Agents on Natural Killer Cells*  
Dimapasoc, M., Moran, J. A., Cole, S. W., Ranjan, A., Hourani, R., Kim, J. T., Wender, P. A., Marsden, M. D., Zack, J. A.  
2024; 9 (1): 108 - 137
- **Charge-altering releasable transporters enhance mRNA delivery in vitro and exhibit in vivo tropism.** *Nature communications*  
Li, Z., Amaya, L., Pi, R., Wang, S. K., Ranjan, A., Waymouth, R. M., Blish, C. A., Chang, H. Y., Wender, P. A.  
2023; 14 (1): 6983
- **Evaluation of the efficacy of the hypocretin/orexin receptor agonists TAK-925 and ARN-776 in narcoleptic orexin/tTA; TetO-DTA mice.** *Journal of sleep research*  
Sun, Y., Ranjan, A., Tisdale, R., Ma, S., Park, S., Haire, M., Heu, J., Morairty, S. R., Wang, X., Rosenbaum, D. M., Williams, N. S., De Brabander, J. K., Kilduff, et al  
2023: e13839
- **Secreted factors induced by PKC modulators do not indirectly cause HIV latency reversal.** *Virology*  
Moran, J. A., Ranjan, A., Hourani, R., Kim, J. T., Wender, P. A., Zack, J. A., Marsden, M. D.

2023; 581: 8-14

- **Trimethylene Methane Dianion Equivalent for the Asymmetric Consecutive Allylation of Aldehydes: Applications to Prins-Driven Macrocyclizations for the Synthesis of Bryostatin 1 and Analogues.** *The Journal of organic chemistry*  
Wender, P. A., Luu-Nguyen, Q. H., Sloane, J. L., Ranjan, A.  
2022
- **Thiol-Yne Coupling of Propargylamine under Solvent-Free Conditions by Bond Anion Relay Chemistry: An Efficient Synthesis of Thiazolidin-2-ylideneamine** *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*  
Ranjan, A., Deore, A. S., Yerande, S. G., Dethé, D. H.  
2017; 2017 (28): 4130-4139
- **An asymmetric alkynylation/hydrothiolation cascade: an enantioselective synthesis of thiazolidine-2-imines from imines, acetylenes and isothiocyanates.** *Chemical communications (Cambridge, England)*  
Ranjan, A., Mandal, A., Yerande, S. G., Dethé, D. H.  
2015; 51 (75): 14215-8
- **One-Pot Synthesis of 2-Amino-1,3-selenazole via an Intermediary Amidinoselenourea** *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*  
Ranjan, A., Yerande, R., Jadhav, M., Yerande, S. G., Dethé, D. H.  
2015; 2015 (15): 3230-3234
- **Base-mediated hydroamination of propargylamine: a regioselective intramolecular 5-exo-dig cycloisomerization en route to imidazole-2-thione.** *Organic letters*  
Ranjan, A., Yerande, R., Wakchaure, P. B., Yerande, S. G., Dethé, D. H.  
2014; 16 (21): 5788-91
- **Biomimetic total syntheses of borreverine and flinderole alkaloids.** *The Journal of organic chemistry*  
Dethé, D. H., Erande, R. D., Ranjan, A.  
2013; 78 (20): 10106-20
- **Enantioselective total syntheses and determination of absolute configuration of marine toxins, oxazinins** *RSC ADVANCES*  
Dethé, D. H., Ranjan, A.  
2013; 3 (45): 23692-23703
- **Asymmetric first total syntheses and assignment of absolute configuration of oxazin-5, oxazin-6 and preoxazin-7.** *Organic & biomolecular chemistry*  
Dethé, D. H., Ranjan, A., Pardeshi, V. H.  
2011; 9 (23): 7990-2
- **Biomimetic total syntheses of flinderols B and C.** *Journal of the American Chemical Society*  
Dethé, D. H., Erande, R. D., Ranjan, A.  
2011; 133 (9): 2864-7