



**Mintu Porel**  
Ph.D. University of Miami, USA  
Assistant Professor, Chemistry  
[mintu@iitpkd.ac.in](mailto:mintu@iitpkd.ac.in), 04923-226346  
<https://mintuporel.wixsite.com/iitpkdchem>



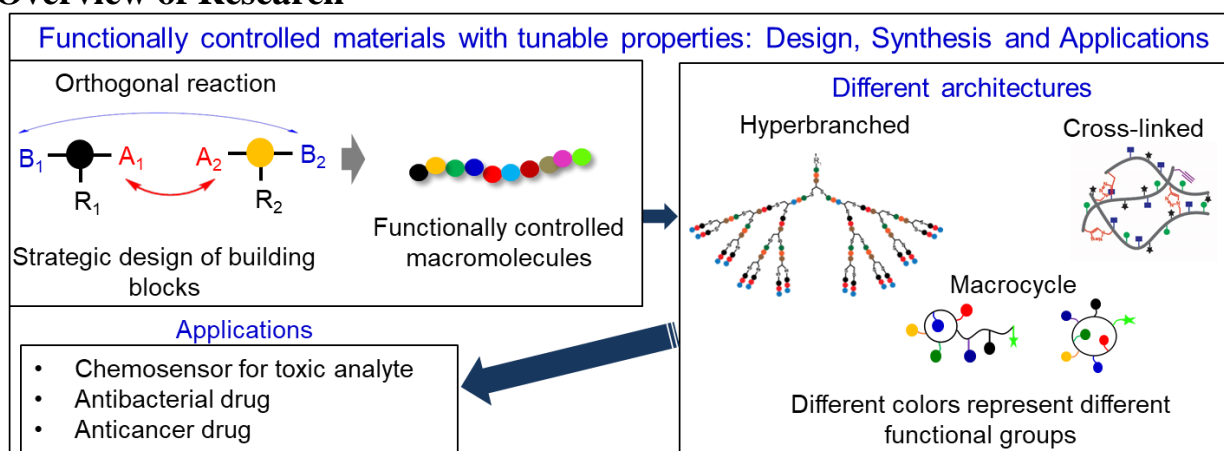
## Research Interests

- Design and Synthesis of Organic Materials
- Chemosensor for Toxic Analytes
- Antibacterial and Anticancer Drug Development

## Brief Summary of Research

Mintu has published 28 peer-reviewed international journals and one US patent. She has presented her work in several international conferences including American Chemical Society USA, Gordon Research Conference USA, Inter-American Photochemical Society USA. She is the recipient of several prestigious awards including 'Ramanujan Fellowship' from DST-SERB, India, '2012 Gerhard Closs Student Award' from Inter-American Photochemical Society, USA, 'The Stanley, Sam and Clara Schreiber Scholarship' from University of Miami, USA, 'College of Arts & Sciences Summer Graduate Research Fellowship Award' from University of Miami, USA. She has supervised one MSc. student having a project from Kerala State Council for Science, Technology and Environment. Currently she is supervising two PhD students and one postdoctoral associate.

## Overview of Research



## Project:

"A Novel Class of Functionally Controlled Macromolecules with Tuneable Properties for Material and Biomedical Applications", Ramanujan Fellowship from DST-SERB, Rs. 38,00,000. August 2018 - August 2023.

## Selected Publications (Full list of publications: <https://mintuporel.wixsite.com/iitpkdchem>):

- **Porel, M.**; Thornlow, D. N.; Phan; N. N.; Alabi, C. A. Sequence-defined bioactive macrocycles via an acid catalyzed cascade reaction. *Nat. Chem.* **2016**, *8*, 590-596.
- **Porel, M.**; Alabi, C. A. Sequence-defined polymers via orthogonal allyl acrylamide building blocks. *J. Am. Chem. Soc.* **2014**, *136*, 13162-13165.
- **Porel, M.**; Chi-Hung, C.; Burda, C.; Ramamurthy, V. Ultrafast photoinduced electron transfer between an incarcerated donor and a free acceptor in aqueous solution. *J. Am. Chem. Soc.* **2012**, *134*, 14718-14721.