

Dr. Rohitkumar G. Gore, Ph. D.

Present position

- Assistant Professor

Contact Details



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Work Experience

- Teaching: 14 years
- Research/Industrial: 7 years

Personal Profile

Recipient of **Wesley Cocker Award, 2014**. This award was presented by Society of Chemical Industry (SCI, All Ireland Group), UK & Ireland to recognize a young scientist who has made a major contribution in some aspect of chemistry relevant to Irish industry.

Course(s) Taught (Only Titles)

1. Stereochemistry of Organic Molecules
2. Designing Organic Synthesis
3. Asymmetric Synthesis
4. Advanced Organic Chemistry
5. Chemistry of Natural Products

Field of Specialization/Areas of Interests

- Organic Synthesis
- Asymmetric synthesis
- Organocatalysis

Education

- **Ph.D. – (Chemistry):** from September 2008 to November 2012
Title of the Thesis: “*Novel low antimicrobial toxicity imidazolium ionic liquids: design, synthesis and their applications in organic synthesis*”
Dublin City University, Dublin, Ireland
Year of Award: 2012

- **Master of Science/Arts- (Organic Chemistry):** 2006
Pune University/A. M. College, Hadapsar, Pune
- **Bachelor of Science- (Chemistry):** 2004
Fergusson College, University of Pune, Pune

Fellowship/Awards/ Certifications/Achievements/Recognitions

1. “**EPA Ph. D. Scholarship**” given by Environmental Protecting Agency (EPA), Ireland during 2008 to 2012.
2. “**Wesley Cocker Award**” given by Society of Chemical Industry of UK and Ireland, 2014.
3. Post-Doctoral Fellowship as a **Research Scientist** under grant **ERA Chair of Green Chemistry**, Tallinn University of Technology (TalTech), Tallinn, Estonia during 2018-2019.

Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
<ul style="list-style-type: none"> • Member, Feedback Committee 	-	Member, Board of Studies (BoS)
<ul style="list-style-type: none"> • Member, Research Co-ordination Committee (RCC) 		
<ul style="list-style-type: none"> • Member, NAAC 4th Cycle, Criteria III 		
<ul style="list-style-type: none"> • Coordinator, International Collaborations 		
<ul style="list-style-type: none"> • Departmental Coordinator of PMRF Teaching Assignments 		

Employment History

- 1) **Organization : Tallinn University of Technology (TalTech), Tallinn, Estonia**
Role : Research Scientist
Duration : 2018-2019

Responsibilities	<ul style="list-style-type: none"> • Carry out research. • Guide Ph.D. Students for their work towards the thesis
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- 2) **Organization : Dublin City University, Dublin, Ireland**
Role : Demonstrator
Duration : 2008-2012

Responsibilities	<ul style="list-style-type: none"> • Demonstrate how to perform chemistry experiments in laboratory. • Teach theory and practical applications of the practicals • Evaluate students based on their performance
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3) Organization : National Chemical Laboratory (NCL), Pune

Role : Project Assistant

Duration : 2006-2008

Responsibilities	<ul style="list-style-type: none"> • Carry out research • Prepare report on the project
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Research Publications in National and International Journals

1. **Ethoxy-Ester Functionalized Imidazolium based Ionic Liquids for Lithium Ion Batteries**, T. Nirmale, N. Khupse, R. Gore, J. Ambekar, M. Kulkarni, A. Varma and B. Kale *ChemistrySelect*, **2018**, 3, 6255-6261
2. **“Low toxic” ionic liquids: greener and alternative solvent for asymmetric carbonyl-ene reaction of phenylglyoxal**, R. G. Gore, T.-K.-T. Truong, M. Spulak, S. Connon and N. Gathergood, *Current Green Chem.*, **2014**, 1, 239-248.
3. **A new generation of aprotic yet Brønsted acidic imidazolium salts: effect of ester/amide groups in the C-2, C-4 and C-5 on antimicrobial toxicity and biodegradation**, R. G. Gore, L. Myles, M. Spulak, Ian Beadham, M. T. Garcia, S. J. Connon and N. Gathergood, *Green Chem.*, **2013**, 15, 2747-2760.
4. **A new generation of aprotic yet Brønsted acidic imidazolium salts: low toxicity, high recyclability and greatly improved activity**, L. Myles, R. G. Gore, N. Gathergood and S. J. Connon, *Green Chem.*, **2013**, 15, 2740-2746.
5. **Tandem ionic liquid antimicrobial toxicity and asymmetric catalysis study: carbonyl-ene reactions with trifluoropyruvate**, R. G. Gore, T.-K.-T. Truong, M. Spulak, L. Myles, S. Connon and N. Gathergood, *Green Chem.*, **2013**, 15, 2727-2739.
6. **Highly recyclable, imidazolium derived ionic liquids of low antimicrobial and antifungal toxicity: A new strategy for acid catalysis**, L. Myles, R. Gore, M. Spulak, N. Gathergood and S. J. Connon, *Green Chem.*, **2010**, 12, 1157-1162.
7. **Organocatalytic enantioselective synthesis of β -blockers: (S)-Propranolol and (S)-Naftopidil**, S. P. Panchgalle, R. G. Gore, S. P. Chavan and U. R. Kalkote, *Tetrahedron: Asymmetry*, **2009**, 20(15), 1767-1770.

Participation in Conferences/Seminars/Symposia/Workshop:

Oral Presentations:

1. **Biodegradable Catalytic Asymmetric Methods - A study of solvents, organocatalysts and magnetic nanoparticle-supported catalysts**, Conference: Green Chemistry in Ireland: including highlights of Environmental Technology projects funded by the EPA, DCU, Dublin, 15 April 2010.

2. **Biodegradable, non-bactericidal Ionic liquids**, Conference: 62nd Irish Universities Chemistry Research Colloquium, Queen's University Belfast, 1-2 July 2010.
3. **Green Catalysts for Organic Synthesis**, Conference: 9th Annual Postgraduate Seminar, Dublin, 17 November 2011.
4. **Greener Organocatalysis: Toxicity and biodegradation studies**, Conference: Green Chemistry II: Sustainable Catalysis and Emerging Environmental Technologies, DCU, Dublin, 12 July 2012.

Poster Presentations:

1. **Biodegradable, non-bactericidal Ionic liquids**, R. G. Gore, S. Morrissey, B. Pegot, D. Coleman, I. Beadham, M. Gurbisz, M. Ghavre, M. T. Garcia, D. Ferguson, B. Quilty, N. Gathergood, Biodegradability and Toxicity of Ionic Liquids 2 (BATIL 2), 28-29 September 2009 in Frankfurt/Main, Germany.
2. **Biodegradable, non-bactericidal Ionic liquids**, R. G. Gore, L. Myles, D. Coleman, I. Beadham, M. Gurbisz, M. Ghavre, M. Spulak, M. Pour, B. Quilty, S. Connon and N. Gathergood, EPA National Research Conference, 23 June 2010, Croke Park, Dublin.
3. **Highly recyclable, low antimicrobial and antifungal toxicity ionic liquids: A new strategy for Brønsted acid catalysed reaction**, R. G. Gore, L. Myles, M. Spulak, M. Pour, S. Connon and N. Gathergood, Green Solvents Conference, 10-13 October 2010, Berchtesgaden, Germany.