

Dr. RAJEENA PATHOOR

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Personal Profile

A highly dedicated and enthusiastic researcher and teacher who works as Asst. Professor at Sir Sayed College, Taliparamba, and who has more than 8 years of experience in researching and teaching at college level. Highly committed to helping students grow both their intellectual and social selves.

Education

- PhD (Chemistry)** : Oct. 2018 (**University of Calicut, Kerala**)
Thesis Title: "Peptide or Peptidomimetic Randomization of Privileged Structures: A Novel Green Multicomponent Synthetic Route to Drug Leads"
- MSc (Chemistry)** : April 2010 (**Bharathiar University, Tamil Nadu**)
- B.Ed (Chemistry)** : May 2006 (**University of Calicut, Kerala**)
- B. Sc (Industrial Chemistry)** : Sept. 2004 (**University of Calicut, Kerala**)

Work History

Asst. Professor: 2021 to the present (Dept. of Chemistry, Sir Syed College, Taliparamba, Kannur)

Research Experience

PhD (University of Calicut) : 2013-2018
(On Organic Synthesis based on multi-component reactions)

Publications

Rajeena Pathoor and D Bahulayan. "Synthesis of large Stokes shift and narrow emission indole– triazole–carboxamide peptidomimetics via MCR-click strategy". *Tetrahedron Letters*. 2016, 57. 2360-2366.

Rajeena Pathoor and D Bahulayan. "MCR-click synthesis, molecular docking and cytotoxicity evaluation of a new series of indole–triazole–coumarin hybrid peptidomimetics". *New journal of Chemistry*. 2018, 42. 6810-6816.

Rajeena Pathoor, P Thasnim and D Bahulayan. "An efficient green diversity oriented synthesis of Pyrimidinone and Indole appended macrocyclic peptidomimetics". *Tetrahedron Letters*. 2019, 60, 191-196

Aranhikkal Shamsiya, **Rajeena Pathoor** and D Bahulayan. "Indole/Oxazolone functionalized coumarins as pH sensitive fluorescent Kinase inhibitors". *Tetrahedron Letters*. 2022, 101

Book Chapters

Rajeena Pathoor and Thasnim P. "Indole - A Promising Scaffold in Biochemistry", *Fundamental applications of Biochemistry in Environment*, ISBN: 978-93-5737-783-6.

Thasnim. P and **Rajeena Pathoor**, "Scaffold decorated 1,2,3-Triazoles as potential anti-cancer agents", *Novel Areas of Chemical Research*, ISBN:978-93-5701-222-5

Conference Presentations

Rajeena Pathoor. "Synthesis of Fluorogenic Ugi Carboxamides azides Suitable for Multipurpose Applications". *International Conference on Recent Advances in Technology Engineering and Science*. C Addul Hakeem College of Engineering and Technology. 2016

Rajeena Pathoor. "A Promising Biomaterial Synthesized Via Oneport Alternative Manich type Reaction". *International Conference on Advanced Materials*, Dept of Sciences, Amrita University, Coimbatore, Tamilnadu, 2016.

Rajeena Pathoor. "Ugi Reaction: A Versatile Tool for the Synthesis of Carboxamide Azide". *International Conference on Tropical Plants and Molecular Design*. TKM College of Arts and Science, Kollam, Kerala. Feb. 2017.

Rajeena Pathoor. “Synthesis and Photophysical Studies of Indole Triazole Peptidomimetics via Intermolecular [3+2]Azide- Alkyne Cycloaddition Reaction”. *National Conference on Biomaterials in Medicinal Chemistry*, Madurai Kamaraj University, Tamil Nadu. April 2017.

Conference Proceedings

Rajeena Pathoor and P Thasnim. “A Promising Biomaterial Synthesized Via One port Alternative Mannich type Reaction”. *International Conference on Advanced Materials*, Dept of Sciences, Amrita University, Coimbatore, Tamilnadu, 2016. ISBN 978-93-86176-47-50.

Rajeena Pathoor, P.Thasnim “Synthesis and Photophysical Studies of Indole Triazole Peptidomimetics via Intermolecular [3+2] Azide- Alkyne Cycloaddition Reaction”. *National Conference on Biomaterials in Medicinal Chemistry*, Madurai Kamaraj University, Tamil Nadu. April 2017. ISBN- 978-93-86568-01-4.

Rajeena Pathoor, Thasnim P “Ugi reactions; A versatile tool for the synthesis of carboxamide Azides”. *International Conference on Tropical plants and Molecular Design, Post Graduate and Research Department of chemistry, T.K.M College, Kollam.*

P.Thasnim, **Rajeena Pathoor** and D Bahulayan. “Scaffold Decoration of Biginelli Dryhydropyrimidinones to Synthazise C 6 Bromo and Azidomethyl Derivatives and Evaluation of their Photophysical and Drug-like Properties: Materials Useful for Bio-imaging Applications. *International Conference on Advanced Materials*, Dept of Sciences, Amrita University, Coimbatore, Tamilnadu, 2016. ISBN 978-93-86176-47-50.

P.Thasnim, **Rajeena Pathoor**, T.V.Soumya, A. Shamsiya and D. Bahulayan “Synthesis of triazole tethered coumarin-quinoline-dyad using copper catalyzed alkyne azide click chemistry: An evaluation of their photophysical and drug like properties”. *National Conference on Biomaterials in Medicinal Chemistry*, Madurai Kamaraj University, Tamil Nadu. April 2017. ISBN- 978-93-86568-01-4.

T.V.Soumya, A. Shamsiya, **Rajeena Pathoor**, P.Thasnim and D. Bahulayan “Development of Highly Efficient Pyridine-Triazole-Furan Peptidomimetic Fluorophores with Desirable Drug-Like properties through the Exploitation of MCR-Click Strategy”. *National Conference on Biomaterials in Medicinal Chemistry*, Madurai Kamaraj University, Tamil Nadu. April 2017. ISBN- 978-93-86568-01-4.

A. Shamsiya, T.V.Soumya, **Rajeena Pathoor**, P.Thasnim and D. Bahulayan “Design, Synthesis and Drug Like Properties of Dihydropyrimidinone Scaffolds”. *National Conference on Biomaterials in Medicinal Chemistry*, Madurai Kamaraj University, Tamil Nadu. April 2017. ISBN- 978-93-86568-01-4.

Honors and Awards

CSIR National Eligibility Test (NET) with JRF (Junior Research Fellow, All India Rank- 68):

May, 2012.

State Eligibility Test (SET), Directorate of Higher Secondary Education: Sept. 2011

References

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