

Name : B. Kirthika Rani
Designation : Assistant Professor
Department : Chemistry
Date of Joining : 06. 02.2006, (regularization 19.09.2007)
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Educational Qualification:

Degree	Subject	College / Uuniversity & Place	Year Completed
Ph.D	Chemistry	Gandhigram Rural University, Gandhigram	2018
M.Phil	Chemistry	Madurai Kamaraj University, Madurai	2008
M.Sc	Chemistry	The American College, Madurai	2000
B.Sc	Chemistry	Lady Doak College, Madurai	1998

Academic Credentials

- Qualified JRF-LS in NET (UGC-CSIR) examination, Dec 1999.
- Qualified GATE examination with 90% percentile score, Feb 2000.

Specialisation in Teaching:

- Organic Chemistry
- Spectroscopy
- Stereochemistry

Specialisation in Research:

- Organic synthesis
- Fluorescent Chemosensors

Research Interests:

- Practical applications of chemosensors in detecting ions and organic molecules.
- Synthetic Organic Chemistry

Any Other Work Experience:

Designation	Institution / Company	Year - From (month/year) To (month/year)
Lecturer	J.J. College of Arts and Science, Pudukkottai	June 2004- May2005
Lecturer	Lady Doak College, Madurai	June 2002-April2004
Lecturer	The American College, Madurai	July2000-April2002
Project Scientist	Syngene, Biocon Group of Com, Bangalore	May 2000-June2000

Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year - From (month/year) To month/year)
President, UG Chemistry Association	June 2019
President, UG Chemistry Association	June 2018-May 2019
Student Vice-President, PG Chemistry Association	June1998-April1999
Student President, PG Chemistry Association	June1999-April2000

Membership in Professional Bodies:

- Board of Studies Member: Lady Doak College, Madurai
- Board of Studies Member: Yadava College, Madurai

Articles Published in International Journals:

- ✓ **B. Kirthika Rani** and S. Abraham John, "A novel pyrene based fluorescent probe for selective detection of cysteine in presence of other bio-thiols in living cells", **Biosensors and Bioelectronics** 83 (2016) 237–242.
- ✓ **B. Kirthika Rani** and S.A. John, "Pyrene-Antipyrine based highly selective and sensitive turn-on fluorescent sensor for Th(IV)", **New Journal of Chemistry** 41 (2017) 12131-12138.
- ✓ **B. Kirthika Rani** and S.A. John, "Fluorogenic mercury ion sensor based on pyrene-amino mercapto thiadiazole unit", **Journal of Hazardous Materials** 343 (2018) 98-106.

Career Advancement Courses

- Participated in the Orientation Course held from 7th May 2010 to 3rd June 2010, organized by UGC-Academic Staff College, Bharathiar University, Coimbatore.
- Participated in the Refresher Course held from 12th July 2012 to 1st August 2012, on the theme "Current Trends in Chemistry" organized by UGC-Academic Staff College, Madurai Kamaraj University, Madurai.
- Participated in the Refresher Course held from 2nd November 2016 to 22nd November 2016, on the theme " Interdisciplinary Avenues for Advancement in Basic Sciences" organized by Human Resource Development Centre, Madurai Kamaraj University, Madurai.
- Completed 8 weeks Aug-Sep 2018, NPTEL Online Certification Course on Stereochemistry with 88 percentile score.

Conference / Seminar Presentations:

- Presented poster at the 10th CRSI National Symposium in Chemistry (NSC-10), Indian Institute of Science, Bangalore, Feb 1-3, 2008.
- Presented poster at National Conference on Recent Trends in Organic Synthesis, School of Chemistry, Bharathidasan University, Trichy, Jan 24-26, 2011.
- Presented a paper at International Conference on Recent Advances in Materials and Chemical Sciences; (ICRAMCS-2015), Department of Chemistry, Gandhigram Rural Institute, Gandhigram, Dec 14 -15, 2015.
- Presented a poster in the International Seminar on "Materials Science and Technology" organized by the Department of Chemistry, A.P.C. Mahalaxmi College for Women, Thoothukudi on Dec 28, 2016.
- Participated in the National Level Advanced Lecture Series programme on "Organic

Spectroscopy, Stereochemistry and Reaction Mechanism” organized by the Department of Chemistry, Lady Doak College, Madurai, during Feb 20 -21, 2018.

- Presented a paper in the International Conference on Frontier Areas of Chemistry organized by the Department of Chemistry, The American College, Madurai, July 17 – 19, 2018.
- Participated in “Advanced Separation and Detection Seminar” organized by Agilent Technologies India Pvt. Ltd., on 5 September 2018.
- Presented a paper in the International Conference on “Recent Trends in Chemistry and Biosciences” (ICRTCB-2019) organized by Department of Inorganic Chemistry, School of Chemistry, Madurai Kamaraj University during 16-17 May 2019.
- Participated in the International Conference on Frontier Areas of Chemistry-2019 (ICFAC-2019) organized by the Department of Chemistry, The American College, Madurai, on 5 July 2019.
- Presented a paper in the International Conference on “Frontier Areas of Chemical Technologies -2019” (FACTs-2019) organized by the Department of Industrial Chemistry, School of Chemical Sciences, Alagappa University, Karaikudi during 25-26 July 2019.
- Presented a paper in the International Conference on “Expanding Frontier Areas in Chemistry (EFC-19)” organized by the Department of Chemistry Arul Anandar College, Karumathur on 13th September 2019.

Guest Speaker/ Lectures / Talks given:

- Mass Spectrometry: Significance and Applications, Yadava College, Madurai.
- Stereochemistry: Blessing to chemistry, Yadava College, Madurai.
- Ultraviolet Spectroscopy: Principle and applications, Yadava Women’s College, Madurai.
- Quiz Programme-Organized and conducted, Fatima College, Madurai
- Amazing: But True (Stereochemistry and life) – CSI College for Women, Madurai
- Guest Speaker at Velammal College for Engineering and Technology, Topic: Photochemistry.
- Ozone Day- Yadava College, Madurai.

- Aromaticity, V.V.Vanniaperumal College for Women, Virudhunagar.
- Juror for Oral Presentation, International Conference on “Expanding Frontiers Areas in Chemistry (EFC-19)”- Arul Anandar College, Karumathur
- NET/SET/GATE coaching classes at PSGR Krishnammal College for Women, Coimbatore.

Awards / Fellowships:

- Awarded with Summer Research Fellowship (Indian Academy of Sciences, Bangalore)- Project **Asymmetric synthesis** carried under the guidance of **Goverdhan Mehta** (Director, IISc), May2009-July2009.
- Awarded with Cash prize for the University Rank Holder during the M.Sc Chemistry Programme.
- Gold Medal Award for the best student-M.Sc Chemistry, The American College, Madurai, April 2000.
- Silver Jubilee Gold Medal award for the best old student- M.Sc Chemistry, The American College, Madurai, April 2001.
- Various Academic awards during MSc & B.Sc programme.

UGC Sponsored Projects:

Minor Project

Title	Funding Agency	Year of Award	Amount Awarded(Rs.)	Status
Synthesis, characterization and antitubercular evaluation of novel heterocycles.	UGC	2011-2013	1,90,000	Completed