

Resume

1. Name : Dr. Rani Prava
2. Address: 18-1-19/8, 2nd Floor, 'A' Block, Prabhala Enclave,
K.G.H Down, Maharanipeta, Visakhapatnam 530002
E-mail: rani3win@gvpcew.ac.in
Mobile No. - 9000273109
3. Educational Qualification:



S. No.	Qualification	University/Institute	Specialization/ Department	Year of Completion
1.	B.Sc.	Sri Sathya Sai Institute of Higher Learning, Puttaparti, Andhra Pradesh	Chemistry	1992
2.	M.Sc.	Maharaja Sayaji Rao University of Baroda, Baroda, Gujarat	Organic Chemistry	1994
3.	Ph.D.	Andhra University, Visakhapatnam	Organic Chemistry Full time with Stipend	2007

4. Details of Doctoral Thesis:

Area of Thesis Research work: Synthetic Organic Chemistry

Title of Thesis : “*Synthesis and Characterization of new Heterocyclic Compounds and Study of their Properties (Liquid crystalline, Nonlinear Optical and Biological Properties)*”

Supervisor: Prof. Y.L.N Murthy, Department of Organic Chemistry, Andhra University

Year of Completion of work: 2006, Submitted Ph.D. thesis on 10-04-2006

Year of award of Ph. D: 2007

5. Professional Experience: Teaching experience of more than 14 years

S. No.	Institute / Organization	Position held	Date of joining	Duration	Regular/ Adhoc /Ratified
1.	Gayatri Vidya Parishad College of Engineering for Women, Visakhapatnam	Assistant Professor (Chemistry)	07-06-2012	Till date	Ratified by JNTU, Kakinada
2.	Pailan College of Management and Technology, Kolkata	Assistant Professor (Chemistry), HOD, Basic Sciences and Humanities and Coordinator of B. Tech Division	01-06-2008	31-05-2012	Regular

6. Subjects taught:

Under graduate -

For B. Tech 1st Year - Engineering Chemistry, Applied Chemistry- Both theory and Laboratory, Environmental studies

For B. Tech 3rd Year - Professional Ethics and Human Values, Intellectual Property rights and patents, Essence of Traditional Indian Knowledge

Post graduate- 2nd Year M. Tech ECE- VLSI- Open elective course- Waste to Energy

7. Research Experience:

1. Principal Investigator of Research project

S. No.	Title of the Project	Funding agency	Sanctioned amount and Year of Sanction	Duration of the project
1.	'Synthesis and anticancer evaluation of new pyrimidines and isoxazoles'	DST SERC Fast track project	12.09 Lakh 2010	3 years

2. **Junior Research Fellow** (from 2.5.95 to 31.12.97) and **Senior Research Fellow** (from 1.1.98 to 31.5.99), in the Department of Anticancer drug development, Chittaranjan National Cancer Institute, (CNCI), Kolkata.

3. **Project Assistant** in DRDO sponsored project "Development of Semiconductor Laser diodes for special applications" at Department of Organic Chemistry, Andhra University from 2002 to 2005

4. Registered for Ph.D. as **full time Research Scholar** at Department of Organic Chemistry, Andhra University from 21-05-2004. Submitted Ph.D. thesis on 10-04-2006

5. Awards :

1. **Was awarded Rajnikant Baxi Award for Young Scientist** at the 17th Conference of Indian Association for Cancer Research (I.A.C.R.) held at Kolkata from 21st-24th January 1998.

2. **NAARI SHAKTHI AWARD for Best Woman Academician Award** on the occasion of International Women's Day celebrated on March 8th 2022, given by Yellapragada Life Sciences and Universal Society for Research and development.

6. Patent: Status Granted

S. No.	Title of the Patent	Agency to which application was made	Year of application	Agency which has awarded the patent
1.	'A one step process for preparing dimethylaminosulfonates of alkane diols' Co-Inventors: Dr. Utpal Sanyal and Dr. Rani Prava	Patent Office, Kolkata, West Bengal	04-03- 1996 404/CAL/ 1996	Published in The Patent Office Journal, Govt. of India, Number:18503, page no. 266 Patent No. 235851

7. Areas of research interest: :

1. Synthetic Organic Chemistry and anticancer drug Development
2. Green Chemistry
3. Environmental Science

8. List of Publications:

(A) International Journals

S. No.	Authors	Title of the Research paper	Name of the Journal	Vol. No.	Issue No.	Page Nos.	Year of publication	Impact factor
1.	Utpal Sanyal, Rani Nanda , S. Samanta, A. Pain, S. Dutta, A.S. Verma, B.J. Rider, K.C. Agrawal	Evaluation of Dimethylaminosulfonates of Alkane Diols as a novel group of Anticancer Agents	Cancer Letters	155		89-97	2000	5.621
2.	Y.L.N. Murthy, Rani Nanda , P. Ellaiah & R. Bhavani Devi	Synthesis and Characterization of new chromanopyrimidines and study of antimicrobial activity	Heterocyclic Communications	11	2	189-194	2005	0.652

(B) National Journals

S. No.	Authors	Title of the Research paper	Name of the Journal	Volume No.	Issue No.	Page Nos.	Year of publication
1.	Y.L.N. Murthy, Rani Nanda , P.S. Rao, R. Suryaprabha, V.V.Lakshmi, P.V.N. Acharyulu	Synthesis and Characterization of New Chromanopyrimidines	Chemistry - An Indian Journal	1	Dec	246-250	2003
2.	Y.L.N. Murthy, Rani Nanda , R.	Synthesis and Characterization of p,p'-Dicycloxy Dibenzylidene	Chemistry - An Indian Journal	1	Feb	368-373	2004

	Suryaprabha, V.V.Lakshmi	Acetyl Acetone Esters as liquid Crystals					
3.	Y.L.N. Murthy, Rani Nanda , K. Ravi Kumar and G.Y.S.K. Swamy	Synthesis and Characterization of New Chromanoisoxazole	Indian J. Chem. B	45B	Feb	532- 534	2006

9. Conferences:

(A) International Conferences

S. No.	Authors	Title of the Research paper	Name of the Proceedings	Page Nos.	Dates of the conference.	Organized by
1.	Utpal Sanyal, Rani Nanda , S. Samanta, A. Pain, S. Dutta, A.S. Verma, B.J. Rider, K.C. Agrawal	Evaluation of a Series of Dimethylaminosulfonates of Alkane Diols as Antitumor Agents	17th U.I.C.C. International Cancer Congress	abs. No. 868	23-08-1998 to 28-08- 1998	International Union Against Cancer (U.I.C.C.) Rio-de- Janerio, Brazil & Instituto Nacional De Cancer

(B) National Conferences

S. No.	Authors	Title of the Research paper	Name of the Proceedings	Page Nos.	Dates of the conference.	Organized by
1.	Rani Nanda , Utpal Sanyal, A.S. Verma, K.C. Agrawal	Evaluation of Dimethylaminosulfonates of Alkane Diols as Potential Anticancer Agents	17th Annual Convention Indian Association for Cancer Research & National Symposium on Breast Cancer	Page No. 122 abs. No. RBA.9	21-01-98 to 24-01-98	Chittaranjan National Cancer Institute, Kolkata
2.	Y.L.N. Murthy, Rani Nanda	Synthesis and Characterization of new Chromano Pyrimidines and study of Antimicrobial activity	23rd Annual conference of Indian Council of Chemists	Page No. 122 abs. No. 00-75	29-10-2004 to 31-10- 2004	Indian Council of Chemists K.C. College, Mumbai

3.	Y.L.N. Murthy, Rani Nanda, K Padma Suhasini	Synthesis and Characterization of new Chromano Pyrimidines and study of their lasing properties	4 th DAE- BRNS National Laser Symposium (NLS)		10-01-2005 to 13-01- 2005	Bhabha Atomic Research Centre, Mumbai
4.	Y.L.N. Murthy, Rani Nanda, V.Venkata Lakshmi	Synthesis and Characterization of 2,4,6- tri-(p-acyloxy phenyl) pyrylium derivatives as liquid crystals and study of their antimicrobial activity and third order nonlinear optical properties	Joint International conference (ACS-CSIR- AOCCB- 2006) on Advances in Organic Chemistry and Chemical Biology		11-1-2006 & 12-1- 2006	American Chemical Society (ACS) & CSIR held at Indian Institute of Chemical Technology, Hyderabad

11. Seminars/Workshops/FDP:

1. Participated in UGC sponsored seminar on **“Recent trends in the development of potential drugs from natural and synthetic sources”**, held on 10.03.2006 at Dept. of Organic Chemistry, Andhra University, Visakhapatnam.
2. Attended **AICTE/MHRD Sponsored “Faculty Induction Programme”** at Pailan College of Management & Technology, organized by **National Institute of Technical Teachers’ Training and Research**, Kolkata, from 07-07-2009 to 18-07-2009 (2 weeks).
3. **Coordinator for conducting ‘Cancer Awareness Drive’** at Pailan College of Management & Technology, Kolkata on April 7, 2012, to mark the 64th annual World Health Day.
4. Was member of organizing committee for Seminar cum Inter College Project and Paper Presentation Contest, coined **‘TECHNOCRAT - 2012’** 20th and 21st April 2012 at Pailan College of Management & Technology in Technical Association with the Institution of Engineers (India).
5. **Coordinator, National Entrepreneurship Network (NEN)**, Pailan College of Management & Technology, Kolkata and organized **E-week** for four consecutive years 2009, 2010, 2011, 2012. Our College bagged All India 4th Rank.
6. Attended One day awareness workshop on **Intellectual Property Rights & Patents**, held at Baba Institute of Technology & Science, Visakhapatnam on 23rd June 2012.
7. Attended National Workshop on **‘Environmental Pollution: Impact and a New approach to its control’** (Under TEQIP PHASE-II) 6th February, 2014 Department of Chemical Engineering, AU College of Engineering, Andhra University, Visakhapatnam
8. Attended training programme on **‘Nuclear magnetic resonance spectroscopy’** 6th – 8th March 2014 organized by NMR research centre, Andhra University and Nano science & technology research center, GVP college of engineering (autonomous)
9. Two Day workshop on **“INTELLECTUAL PROPERTY RIGHTS, Patent INVENTION: Procedure, Practice & Protection’** organized by Gayatri Vidya Parishad College for Degree and PG Courses, Rushikonda, Visakhapatnam, on 13th and 14th March 2019
10. “One Day” program of **“INTELLECTUAL PROPERTY IN INNOVATION & NEW PRODUCT DEVELOPMENT”** organized by AMTZ, Kalam Institute of Health Technology

(Central Government Initiative) and Novel Intellectual Property Rights Academy (NIPRA) on 26th April 2019

11. Online workshop on **Universal Human Values on the theme “Inculcating Universal Human Values in Technical Education”** during 25-29 April, 2020 as organized by All India Council for Technical Education(AICTE).
12. **"LATEST TRENDS IN ENGINEERING, SCIENCE AND TECHNOLOGY: NANOMATERIALS"** Organized by Department of Chemistry, Lendi Institute of Engineering and Technology, Vizianagaram, (5 days) from 10-15 August 2020
13. Three Day Online Faculty Development Programme on **"Advanced Teaching Tools, Techniques and Methodologies for Outcome based Engineering Education"** held during 09-09- 2020 to 11-09-2020, conducted by DIRECTORATE OF FACULTY DEVELOPMENT CENTER, JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
14. Participated in 10 Hours (5 days) of **Faculty Development Program on Creative Thinking (Online Live FDP)** conducted by ICT Academy on 14 Sep 2020 to 18 Sep 2020
15. Participated in 10 Hours (5 days) of **Faculty Development Program on Emotional Intelligence (Online Live FDP)** conducted by ICT Academy on 13 Oct 2020 to 17 Oct 2020
16. Participated in 10 Hours (5 days) of **Faculty Development Program on Stress Management (Online Live FDP)** conducted by ICT Academy on 28 Jun 2021 to 02 Jul 2021
17. Participated in webinar on **“Faculty Knowledge Sharing Program”** organized by **ICFAI Business School** on 26th September 2021 on the topic- **“Creativity & Innovation for Effective Teaching”**
18. National Workshop (virtual) 2-days, on the topic **“Intellectual Property Protection And Innovation Management For Competitiveness Of Academia & Industries”**, organized by Gayatri Vidya Parishad College for Degree and PG Courses (A), Rushikonda, Visakhapatnam in collaboration with NRDC and IIC, MoE, Govt. of India, on 4th and 5th October 2021.
19. Attended 2- days Online programme **15th Annual Intellectual Property Summit 2022** conducted by Ahmedabad Management Association on 31st March and 1st April 2022.

12. Membership in Professional organizations:

Life member of Universal Society For Research and Development – LM 2260
Indian Science Congress Association
Indian Association for Cancer Research
Indian Council of Chemists

Summary of research work:

1. Designed and executed multistep synthesis, purification (with column chromatography, TLC, analytical and preparative HPLC) and characterization (acquisition and analysis of NMR 1H & 13C, mass spectra, recording and interpretation of FT-IR, UV/VIS) of heterocyclic compounds like isoxazoles, pyrimidines and pyrazoles via chalcones. (PhD Work)
2. Evaluated antimicrobial and pharmacological activity of the synthesized compounds (in-vivo and in-vitro) (PhD Work)
3. Synthesis, purification and characterization of various dimethylaminosulfonates of alkane diols
4. Synthesis and anticancer evaluation of new pyrimidines and isoxazoles.

5. Anticancer activity studies on synthesized compounds include:

- In vitro cytotoxicity testing in human tumor cell lines as HL-60, U-937, MCF-7 etc.
- In vivo screening in mice against Ehrlich Ascites Carcinoma (EAC) and Sarcoma-180 after determination of maximal tolerated dose.
- In vivo toxicological studies with the most active compounds
 - a) Hematological parameters as erythrocytes, thrombocytes, leukocytes and hemoglobin concentration,
 - b) Splenic cellularity
 - c) femoral bone marrow cellularity
 - d) Biochemical parameters like SGOT, SGPT, BUN, SAKP in normal & tumor bearing mice
- Exploring the probable mechanism of action of the compounds by apoptosis study
- Data analysis statistically Structure activity relationship (SAR)

Extra-Curricular Activities:

- Hold a diploma in Bharatnatyam an India classical dance form.
- Active member of Bharat Scouts and Guides in school.
- Won several prizes in various extra-curricular competitions at school, graduate and post-Graduate levels. (Group dances and Solo dances, Quiz, Essay writing, singing, debates, speech competitions, and poetry recitation competitions).
- Hobbies include creative writing, music, reading books, painting and sketching.
- Widely traveled across India and fluent in many Indian languages like Hindi, Telugu, Kannada, Gujarati, Bengali.

Dr. Rani Prava