

# CURRICULUM VITAE



**Name: DR. Renu Bala**

- Designation: Associate Professor,  
Department of Chemistry
- Specialisation/Area of Interest: Organic Chemistry
- Date of Birth: 4/11/1972
- Address:  
Work Place:  
P.G Centre of Chemistry, College of Commerce, Arts and Science  
Kankarbagh, Patna-20.  
Home Address:  
A-303, Om Vihar Apartment, Kadam Kuan, Patna-3, Mob no.-9430287304,  
Email: [renu.bala486@gmail.com](mailto:renu.bala486@gmail.com)
- Academic qualifications:

|                         | Year | Grade                 | Institution       |
|-------------------------|------|-----------------------|-------------------|
| Matriculation -         | 1986 | II <sup>nd</sup> div. | Bihar board       |
| Intermediate -          | 1988 | II <sup>nd</sup> div. | Bihar board       |
| B.Sc(Hons) Organic -    | 1993 | I <sup>st</sup> Class | Magadh University |
| M.Sc(Special organic )- | 1996 | I <sup>st</sup> Class | Magadh University |
| Ph.d -                  | 2009 |                       | Magadh University |

Ph.d Topic: Study of Co-ordination behaviour of alkaline earth metals.

BET - 2003

Bihar eligibility test ( Bihar State college service commission)

- **Number of research scholars guided:**

- 1) Ravi Ranjan

Topic: Studies on Bioenergetic transformation of molasses  
Pollutant to ethanol.

Memo no: XM/R/1045/12

Date: 12/5/12

November 2011-October 2015.

- 2) Archana Kumari

Topic: Facile Biosynthesis of alpha-Hydroxy propionic acid  
by some pure lactobacillus species

Memo no:12/9/16

Date:7/9/16

July 2013-January 2017

- 3) Sanjeev Kumar

Topic: Studies on some new aspects of search for ethanolic  
fermentation by some active strains of saccharomyces cerevisiae.

Memo no:1905/17

Date:4/2/17

July 2013-August 2016

- **Skills/Awards/Achievement:**

- 1) Orientation Program-Patna University(2007)

- 2) Refresher course –Patna University(2009)

3) Refresher course-Patna University(2010)

4) UGC sponsored capacity building of women manager in

Higher education(2012)

5) Refresher course –Patna University(2015)

- **Conference/Seminar/Webinar/Workshop:**

Research Paper presented/Published in conferences/proceedings-

i) Environmental pollutant: Safety measures and management UGC sponsored national seminar organised by Magadh Mahila College, Patna University on December 2015.

ii) 7<sup>th</sup> Bihar Science Conference entitled: Brief excursion into the nutritional requirement of bacteria lactobacillus brevis NCIM-1263. An international conference on science and technology organised by College of Commerce, Arts and Science and BBrain development society on December 2018.

iii) Emerging trends in chemistry-Fundamentals and Applications. UGC sponsored national symposium. Patna University entitled: Role of Magnesium in disease processes on April 2016.

iv) The Indian science congress association on March 2016

v) Chemical pollutant: Effect on Environment and Health organised by Patna Women's College- Patna University on December 2016.

vi) The Indian Science Congress Association entitled: Effects of CuSO<sub>4</sub>—Trichoderma on December 2016.

vii) 1<sup>st</sup> Bihar Science Conference Organised by BBrain Development Society, Patna University, Patna on May 2008

viii) Plastic waste-Hazard to environment, a boon for road strength UGC Sponsored national seminar by PG department of chemistry, COCAS, Patna on May 2008

ix) 3<sup>rd</sup> Bihar Science Conference organised by BBrain development society, Gaya College, Gaya on February 2010

x) Applications of Nano Science and Nano Technology UGC sponsored National Seminar by Patna Women's College- Patna University, Patna on September 2008

xi) Vegyanic tatha takniki shabdavali aayog(HRD Ministry) Higher education department workshop on February 2011

- **Journal publication/Books-**

| Sr. No. | Name of journal   | Topic  | Volume number, Date/Year     |
|---------|-------------------|--|------------------------------|
| 1       | Journal chemtraks | Ethanol formation by Yeast <i>Saccharomyces cerevisiae</i> NCIM-1989 exposed to N-acetoxy-2-acetamidophenanthrene.   | Vol no.20(1&2)<br>49-52,2018 |
| 2       | J.Chemtraks       | Bioenergetic transformation of Molasses pollutant to ethanol by <i>saccharomyces cerevisiae</i> NCIM-2086 EXPOSED TO 1-(acetylanium)-4-bromoanthraquinone. | 15(2)<br>323-326,2013        |
| 3       | J.Chemtraks       | Bioenergetic transformation of molasses pollutant to ethanol by <i>Saccharomyces cerevisiae</i> NCIM-2086 exposed to 4-chloro—nitrocoumarin.               | 15(2)<br>299-302,2013        |
| 4       | J.Chemtraks       | Controlled ethanolic formation exposed to 2-acelominoflourine  | 14(2)<br>423-426,2012        |
| 5       | J.Chemtraks       | Controlled ethanolic formation expose to 7-methoxy-coumanin.   | 14(2)<br>423-426,2012        |
| 6       | J.Chemtraks       | Microbiological synthesis of Cytric exposed to 2-ameno-4-(5-nitro-2-furyl),thiazole  | 12(1)<br>169-172,2010        |
| 7       | J.Chemtraks       | Microbiological synthesis of Cytric acid exposed to 5-nitrouracil  | 12(1)<br>197-200,2010        |
| 8       | Rasayom J.chem    | Synthesis,Characterization and reactivity studies on palladium(O)and (O)complexes with mixed-ligand  | 2(4)<br>886-889              |
| 9       | J.Chemtraks       | IR ,PMR and electronic spectral characterization of metals(II) complexes of bis(1-phenyltetrazoline)5,5-disulphitde  | II(1)<br>149-152,2009        |

- **Professional Membership:**

1. Life member of Indian Science Congress association,Calcutta,L-14378 dt 25/6/09
2. Life member of the Indian Chemical Society,Kolkata,F/6990(IM2009)
3. Life member of BBrain Development society,Patna,943(6/1/10)
4. Life member of Association of chemistry teachers,2012

- **Teaching Experience:**

| Sr. No. | Name of Institution | Post held | Period | Nature of post | Date of Confirmation of appointment by University |
|---------|---------------------|-----------|--------|----------------|---|
|         |                     |           |        |                |   |

|   |                                       |                       |                        |           |            |
|---|---------------------------------------|-----------------------|------------------------|-----------|------------|
| 1 | Nalanda Mahila college, Bihar Sharif  | Lecturer              | 11/8/03 to 19/2/04     | Permanent | 05/03/2011 |
| 2 | College of Commerce, Arts and Science | Lecturer              | 28/2/04 to 11/08/04    | Permanent |            |
| 3 | College of Commerce, Arts and Science | Senior Scale Lecturer | 11/08/2004 to 05/02/15 | Permanent |            |

|   |                                       |                     |                       |           |  |
|---|---------------------------------------|---------------------|-----------------------|-----------|--|
| 4 | College of Commerce, Arts and Science | Associate Professor | 05/02/15 to till date | Permanent |  |
|---|---------------------------------------|---------------------|-----------------------|-----------|--|

**Length of continuous service as lecturer:**

(a) In other University (from NA to NA)

(b) In Magadh University (from 11/8/2003 to 10/8/2009)

Total: -a+b=6 yrs

**Length of continuous service as lecturer(Sr.Scale)**

(c) In Magadh University (from 11/8/09 to 5/2/15)

- **Total Teaching experience:- 18 yrs**
- **Area of Scholarship and research:**  
"Study of Coordination Behaviour of alkaline Earth metals"
- Area of Specialization: Organic Chemistry
- Topic taught in M.Sc: Biochemistry -- Haemoglobin, Mioglobin, Oxy-haemoglobin  
Metabolism, Terpenoids, Natural products, Alkaloids, Reaction, Mechanism, Chromatography, Terpene, Nitrogen fixation, Carbohydrates.

Dr Renu Bala

Associate Professor

P.G Dept. Of Chemistry,

College of Commerce Arts and Science,  
Patliputra Univerity,Patna