



## *Curriculum-vitae*

**Namrata Singh Rajawat**

**Ph.D and M.Sc Applied Chemistry**

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### **Personal Details:**

- **Name** Namrata Singh Rajawat
- **Date of Birth** June 25, 1986
- **Fathers Name** Shri Mahendra Singh Rajput
- **Husband Name** Shri Dharendra P. Singh Rajawat
- **Nationality** Indian
- **Languages known** Hindi & English.

**Namrata Singh Rajawat**

### *Academic details*

- **Ph.D. in chemistry** from Barkatullah University Bhpoal.

**Ph.D. Thesis Title** “Phytochemical analysis of ethanomedicinal plant (*Asparagus racemosus*) and its effects on Urinary Tract Infection causing microorganisms in human beings”.

- **Masters in Applied chemistry** with 60%: from S.A.T.I. Engineering College, Vidisha (Bhopal). Barkatullah University Bhopal.
- **Graduation** in Chemistry, Botany and Zoology with first division (63%) from Barkatullah University Bhopal.

### **Professional experience**

Total Five years teaching experience as Assistant Professor in P.G. Department of Chemistry.

### **M.Sc Dissertation:**

Ten students completed their Dissertation Under the supervision.

### **Training**

Two months training in **Makson Healthcare Pvt. Ltd.**, Mandideep, Bhopal (M.P.)

### **Current area of Research.**

- Identification, Isolation and Characterization of Phytochemicals from Plants.
- Phyto-chemical analysis of Natural products.

### **Research Experience.**

- Two years research experience in the isolation of Natural products.

### **Proficiency in Techniques**

- Advanced Spectrophotometer techniques like Ultra Violet, Infra Red, NMR, and Mass Spectroscopy.  
Advanced Chromatographic Techniques (TLC, Column, GSC, GLC, HPLC)

### **Computer Knowledge**

- Working Knowledge of Computer **MS Office** certified by The Institute of Computer Accountants, (ICA)
- Photoshop, Internet Access.

### **Membership of Scientific Science Societies**

- NITTTR, Bhopal (M.P)
- Indian Science Congress.(one year)

### **Seminars / Conferences:**

- Attend three days **M.P.Young Science Congress,2023** for young scientist organized by Samrat Ashok Technological Institute,Vidisha.
- Attend the National Science Day Celebration,2023 at SATI,Vidisha (M.P.)
- Two days online International conference attendend on "Advanced Research Strategies for sustainable Development" organised by Research Foundation of India and Career College Bhopal,2022.
- National Science Day Celebration 2022 on Integrated approach in Science and Technology for sustainable future"sponsored by MPCST, Bhopal and organized by SATI, Vidisha.
- One day International webinar with Director of Education Division of India"on Opportunities of Education, Scholarships & Internships in Taiwan",2022.
- Two days National Seminar attained on Conservation and Management of Biodiversity in 21<sup>st</sup> century in Motilal Vigyan Mahavidhyalaya Bhopal. (M.P.)
- One day “chemistry year 2011” celebration attend in Govt. Science & Commerce College, Bhopal (M.P.)
- National Seminar on Current Perspectives in Qualitative Research in Research Monitoring Committee, Sarojini Naidu Govt. Girls Post Graduate College, Shivaji Nagar Bhopal (M.P.)
- Two days National workshop on Chemistry & Environment Sciences at Career College, Bhopal (M.P.)
- One day National seminar and Mathematical year celebration attend in Govt. Science & Commerce College, Benazir,Bhopal (M.P.)

### **Extra Curricular Activities:**

- Actively participated in cultural programs as Singing , Assay writing, Speech and Games at School and College Level.

## **List of Publications:**

- **Research Papers :** 9 Research papers published in International journals ( List Attached).

## **Presentations:**

- Two papers presented in MPCST ( Organised by :-Indian Science Congress Association) and NITTTR ( Organised by :- Indian Chemical Society) Bhopal.

## **Dissertation under the supervision:**

- M.Sc. IV Sem Applied Chemistry Students submitted their dissertation under the supervision. Title-"Extraction and Phytochemical analysis of Sesame & Soyabean seeds extracts"(in progress).

## **Abstracts:**

- "Investigation of antioxidant activity and Invitro Phytochemical screening of acetate extract of leaves of *Asparagus racemosus* (Family-Asparagaceae)". 49<sup>th</sup> Annual at the Department of Applied Sciences, National Institute of Technical Teachers Training and Research, (NITTTR), Bhopal.
- "Phytochemical investigation and Thin Layer Chromatography of *Asparagus racemosus* (Asparagaceae) Methanolic leaves extract". National seminar on Science for shaping the Future of India. "Estimation of Vitamin C in Natural and Synthetic products". National Seminar on Conservation and Management of Biodiversity in 21<sup>st</sup> Century. Govt. Motilal Vigyan Mahavidhyalaya Bhopal. 103.
- "Antimicrobial Activity of Sesquiterpene Lactones from *Spheranthus indicus* Lin(Asteraceae)." National Seminar on Conservation and Management of Biodiversity in 21<sup>st</sup> Century Govt. Motilal Vigyan Mahavidhyalaya Bhopal. 90.
- "Climate change: Environmental security" National seminar on environmental security, Naveen college, Bhopal.
- "National Seminar on Chemistry Department" Career College, Bhopal.

## **List of Research Publications:**

1. **Rajawat N** et al. 2022. Study of "Phytochemical activity and pharmacological action of

*Selaginella Bryopteris* for management of oxidative stress”METSZET Journal –ISSN No:2061-2710.Vol.7,Issue 12,Dec.2022.

2. **Rajawat N.& Datar M.**2022.Phytochemical analysis and antimicrobial activity of *Bidens pilosa* plant extract against UTI causing microorganisms.IJARIIE-ISSN(O)-2395-4396.Vol.8,Issue-4.
3. **Rajawat N. & Datar M. 2022.**"Phytochemistry and Antioxidant activity of hydroalcoholic plant extract of *Bidens Pilosa*".Intrenational Journal of Innovative Researh in Technology.Vol.9,Issue(1):105-108.
4. **Rajawat N.et al.**2022."Management of Oxidative stress using *Selaginella Bryopteris* and *Opuntia Dillenii* plant extracts".Journal of Emerging Technology and Innovative Research,Vol.9,Issue3.
5. **Rajawat N.et al.**2022."A review on:Toxic chemicals in E-Waste and its impacts on the enviornment".Journal of emerging technologies and innovative research (JETIR),ISSN No.2349-5162.Vol9,Issue-7,ppa835-a836.
6. **Singh N, Verma A. 2014.** "Total Phenolic content and total Flavanoid content of *Asparagus racemosus* leaves methanolic extract".International Journal of Phytopharmacy research,Vol.5(2):73-75.
7. **Singh N, Verma A. 2013.**"Phytochemical investigation and Thin Layer Chromatography of *Asparagus racemosus* (Asparagaceae) Methanolic leaves extract". International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS). 2013, 2(1): 187 – 191.
8. **Singh N, Verma A, Kumar A. 2013.** "Investigation of antioxidant activity and invitro phytochemical screening of ethyl acetate leaves extract of *Asparagus racemosus* (family-Asparagaceae)". International Journal of Universal Pharmacy and Bio Sciences. Vol. 2(3): 50-55.
9. **Singh N, Verma A. 2013.** "Isolation, purification and spectral analysis of pure compound obtained from leaves extract of *Asparagus racemosus*."World Journal of Pharmaceutical research, Vol. 3(1): 1395-1402.
10. **Singh N, Dwivedi S., Verma A. 2013.** "Spectral Analysis of Steroidal Saponin Isolated and Purified from Leaves Extract of *Asparagus racemosus* (Family – Asparagaceae)".American Journal of Advanced Drug Delivery, Vol. 1(5): 770-776.
11. **Singh N, Verma A. 2012.** "Chromatographic separation of ethyl acetate crude extract of Shatavari: An ethanomedicinal plant." International Journal of Pharmaceutical Sciences and Healthcare,Vol6(2).

- 12 Singh N, Verma A. 2012.** "Invitro Antibacterial activity and phytochemical screening of leaves extract of *Asparagus racemosus* against UTI causing microorganisms". *Novus Natural Science Research*, Vol. 1(2).
- 13 Singh N, Verma A. 2012.** "Phytochemical screening and antibacterial activity of methanolic crude extract of *Asparagus racemosus* family-Asparagacea". *International Journal of Pharmaceutical Research & development*, Vol 4(2): 054-057.

**DATE:**

**Dr.Namrata S.Rajawat**  
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**Applied Chemistry dept,**  
**SATI,Vidisha (M.P)**