

# DR. (MRS.) IRVINDER KAUR KOCHAR

Ph.D., FBS



**Address:** House No. 27, Public Park, Sri Ganganagar, Rajasthan (335001)

**Phone:** (+91) 94142 24148 · **Email:** [ikkocharbot@gmail.com](mailto:ikkocharbot@gmail.com)

## EMPLOYMENT HISTORY

*Associate Professor of Botany*

|                |                  |  |
|----------------|------------------|--|
| September 2022 | – Till Date      | Govt Girls College Sadulshahar                   |
| September 2019 | – September 2022 | SSGC Govt College, Suratgarh                     |
| July 2015      | – September 2019 | SBD Govt College, Sardarshahar                   |
| December 2011  | – July 2015      | GHS Govt PG College, Sujangarh                   |
| August 2011    | – December 2011  | Ch. BRG Govt College, Sri Ganganagar             |
| September 1996 | – August 2011    | SGN Khalsa PG College, Sri Ganganagar            |
| July 1995      | – September 1996 | SBD Govt College, Sardarshahar                   |
| February 1992  | – July 1995      | Dr. B R Ambedkar Govt PG College, Sri Ganganagar |

## ACADEMIC QUALIFICATION

| Examination Passed                                   | University/Board      | Name of Institute/ Dept.        | Year of Passing |
|--|-----------------------|---------------------------------|-----------------|
| Ph.D.*   | MDS University, Ajmer |                                 | 2002            |
| NET qualified:<br>For JRF Fellowship and Lectureship | UGC                   | Life Sciences                   | 1994            |
| M.Sc.  | Kanpur University     | Dept. of Botany                 | 1988            |
| B.Sc.  | Kanpur University     | ANDMMM College                  | 1986            |
| Higher Secondary                                     | CBSE                  | Mariumpur S,S<br>School, Kanpur | 1984            |
| Matriculation  | CBSE                  | Mariumpur S,S<br>School, Kanpur | 1982s           |

\*Title of the Thesis: **Taxonomy and Phylogeny of the Tribes of the Asteraceae**

## KEY ACHIEVEMENTS

- Received National Award in National Science Photographic Contest “**Light And Shades Of Science**” organized by DST in 2006
- Received certificate of appreciation for extra ordinary achievement by District Administration, Sri Ganganagar in 2007
- Received certificate of appreciation by Sub Divisional Administration, Sadulshahar in 2024
- Completed three UGC granted minor research projects
- Supervised Ph.D. and M.Phil. Dissertation work
- Conferred Fellowship of Indian Botanical Society.
- Appointed member Boards of Studies Botany by MGSU in 2016
- Participated and presented paper in several National and International Conferences

- Published papers in National and International journals

## MINORRESEARCHPROJECTS (UGC)

- 2009 Potential utilization of *Chenopodium murale* and *zaleya govindiaas* biofertilizer by vermiculture biotechnology
- MRP No. MS-517/302060
  - Amount sanctioned Rs.1,00,000
  - Project completed
  - Audited utilization certificate and final report of the same submitted
- 2006 Vermicomposting of weeds and its impact on plant growth
- NO. 45-17/2005-06 (MRP/CRO) 302060
  - Amount sanctioned Rs.1,00,000
  - Project completed
  - Audited utilization certificate and final report of the same submitted
- 2000 Taxonomy and Phylogeny of the Tribes of the Asteraceae  
MRP – 7-4-124(3)2000(MRP/CRO)  
Amount sanctioned – Rs. 38,000  
Project completed – Thesis submitted to MDS University, Ajmer in 2002

## PAPER PUBLICATION IN NATIONAL AND INTERNATIONAL JOURNALS

- 2016 Medicinal use of the introduced Angiosperms flora of the canal irrigated regions of the great Indian desert. *Economic and Taxonomic Botany*, Vol(1-2) 10-13 (ISSN: 2050-9768)
- 2016 Potential utilization of Electro-culture technology for promoting plant growth. *Research Inspiration*, Vol I, Issue II, March 2016, ISSN: 2455-443X
- 2016 Biological activity of red wiggler earthworm using puncture wine weed with cow dung as substrate. *Indian Journal of weed science*. 48(3): 353-355
- 2015 Biological activity of red wiggler earthworm on different ratio of weed and dung as mixture substrate. *Indian Journal of weed science*. 47(4); 411-413
- 2015 Medicinal use of the introduced angiosperm flora of the canal irrigated regions of the Great Indian Desert. *Journal of economic and taxonomic botany*, Vol 40 (1-20)
- 2010 Winter season crops and their associated weeds of Sri Ganganagar. *Journal of economic and taxonomic botany*. Vol 32 No.2
- 2009 Association of weeds with major rabi crops of district Sriganganagar. *Indian journal of Weed Science*. Vol 41(3&4) 220-22

- 2008 Disappearance of endemic germplasm from canal irrigated area of the great Indian desert. *Journal of economic and taxonomic botany*. Vol 3No.2
- 2004 Structure, Vascular, Anatomy and Evolution of Neuter Ray Floret in the Asteraceae. *J. Indian bot.soc.* 83:1-3
- 2000 Structure floral anatomy of normal and abnormal florets of *Tagetes erecta* Linn. (Asteraceae) *Journal of economic and taxonomic botany*. Vol 20
- 1998 Structure, Vascular, Anatomy and Evolution of naked pistillate flowering the Asteraceae *Acta Botanica Hungarica* .Vol41(1-4)287- 292
- 1998 Gynoecial composition in the Asteraceae. *J Indian bot. soc.* Vol.77
- 1998 Systematic position of genus *Pegnam*. *Journal of economic and taxonomic botany*. Vol 22 No. 3

#### PUBLICATION IN BOOK

- 2018 Vermiculture Biotechnology: A boon in waste and environmental management in environment crisis – challenges and opportunity. Ed – Agnihotri P, JRF International Book Publication 2018 (ISBN – 978-93-87739-06-24) PP: 299-308

#### AWARD AND FELLOWSHIP

- 2024 Appreciation Award by Sub Divisional Administration, Sadulshahar on 26 January 2024
- 2007 Appreciation Award by District administration, Sri Ganganagar on 15 August 2007 for extraordinary achievement.
- 2006 Received National Award on Science Photographic competition organized by the D.S.T."Light and Shades of Science" in 2006 under the category "Science Close Up" on her entry entitled Floret of *Ageratum*.
- The work was done during the MRP entitled "Taxonomy and Phylogeny of the tribes of the Asteraceae".
- 2004 Fellowship of Indian Botanical Society
- Conferred fellowship by the Indian Botanical Society in October 2004 for significant contribution in the field of taxonomy and environmental studies.

#### NATIONAL, INTERNATIONAL CONFERENCES, WORK SHOPS ATTENDED AND PAPER PRESENTATIONS

- 2024 One Day National Workshop on NAAC Accreditation and Assessment Process by IQAC, Govt. Dungar College, Bikaner in association with DLQAC and RUSA Jaipur on 25th Jan, 2024.
- 2024 International Conference on Socio-Economic Concerns of Literature, Culture, and Education in the Global Scenario, organized by Choudhury Ballu Ram Godara Girls College, Shri Ganganagar on 18<sup>th</sup> January 2024. Paper presentation: The Impact of Artificial Intelligence in Education with Specific Reference to Literature

- 2023 International Conference on Environment Protection and Social Governance EPSG 2023” on 27th to 28th January 2023 at Govt. College and Govt. Girls College, Dudu. Paper presentation: Vermitechnology for Sustainable Rural Livelihood
- 2023 National Conference “Synergy 2023-Emerging Trends and Innovations in Commerce and Management “(SETICM-2023) organized by SS Jain Subodh, G College, Jaipur, from 20th to 21st December, 2023. Paper presentation: Potential Role of Women Entrepreneurs in Sustainable Practices in Agriculture
- 2023 International Conference on Social Entrepreneurship Introspection and Future Strategy by Centre for Entrepreneurship and Skill Development, University of Rajasthan, Jaipur and Media Foundation, Indian Youth Parliament on 29th to 30th November 2023.
- 2023 International Conference on Emerging Challenges, Their Solutions, and Recent Advances in Science and Technology, organized by Shobha Sariya College Sikar.Paper presentation: Potential Utilization of Vermiremediation for Decontamination of Soil.
- 2022 UGC approved short-term professional development program on implementation of NEP 2020 for university and college teachers held from 5th to 13th December 2022 and obtained A+ grade.
- 2021 National Webinar on Biodiversity,Conservation,environmental protection and immunity against diseases at Govt Girls College ,Kotputli on 21<sup>st</sup> Jan. 2021
- 2021 National Webinar on Rajasthan mein Kisan Andolan (Shekhawati shetra ke sandarbh mein)at Govt College ,Patan,Sikar on 16th Jan. 2021
- 2021 National Webinar on Adhunik Bharat ke nirmata avam panchsheel sidhanth at G.H.S.Govt College , Sujangarh on 13<sup>th</sup> Nov. 2021
- 2020 An International conference on “Innovative research on science, humanities, engineering and management” at Shri Khushal Das University, Pilibanga, Hanumangarh on 15-16 February 2020.Paper presentation: Earthworm vermicomposting: Wildplant management
- 2019 International conference on Environmental Etics, Resource Management and Regional development: Issues, Challeneges and Prospects. 29-30 November 2019 at Dr.Bhim Rao Ambedkar Govt. College, Sri Ganganagar.  
Paper presentation: Vermiculturetechnology: An effective tool for environmental management
- 2019 Gandhi’s spiritualism and changing scenario with Yoga – 2019 at Govt. Girls College, Dholpur on 22-23 November 2019.Paper presentation: Importance of adding plants to yoga environment
- 2019 वैशिवकपर्यावरणसंकटऔरसामजिकसाहितियकचिंतनat Dr.Bhim Rao Ambedkar Govt. College, Sri ganganagar on 15 November 2019.Paper presentation: Sacred Earth in the Sikh tradition
- 2019 An International conference on emerging challenges, their solutions and recent advances in science at Govt. Science College, Sikar on 4-5 October 2019.Paper presentation: A study of natural resources management
- 2019 A National conference on “Strengthening society through gender equality and protection of child rights” at SS Jain Subodh PG College, Jaipur on 11-12 January 2019

- 2019 An National conference on “Modern trends in Research Methodology” at Tantia University, Sri Ganganagar on 7-8 January 2019
- 2017 National Seminar on Higher Education in 21<sup>st</sup> Century: Issues, Challenges and oppurtunities in Indian context. 27-28 January 2017 at Shrimata NDB Govt PG College, Nohar.Paper presentation: Position of women in Higher Education Management
- 2017 National Seminar on Human Rights: Contemporary issues and challenges. 15-16 September 2017 at SRR Morarka Govt PG College, JhunJhunu.Paper presentation: मानवाधिकारएवंदलितमहिलाएँ
- 2017 National Seminar on Excellence in Higher Education: the road ahead on 26-27 September 2017 at SPNKS Govt PG College, Dausa
- 2017 National Seminar on Innovative approaches in Biosciences. 15-16 September 2017, at Kanoria PG MahilaMahavidyalaya.Paper presentation: Vermicomposting: Ecofriendly method of livestock, waste recycling for sustainable agriculture in Rajasthan
- 2017 International conference on Commerce, Management, Social Sciences and Science. 20-21 November 2017 at LBS PG College, Jaipur.Paper presentation: Organic Farming – An ecofriendly way to health and prosperity.
- 2017 राजस्थानमेंतीर्थपर्यटनकाविकास: एकनवीनपरिप्रेष्य 30 November-1 December 2017 at Government Girls College, Ajmer.Paper presentation: Potential of sikh pilgrimage in Rajasthan
- 2017 International seminar on convergence of development, governance and civil society: changing role of the state. 24-25 January 2018. Department of Public Ad., University of Rajasthan.Paper presentation: Globalization and administrative culture
- 2016 National conference on “Environmental challenges, Human Health and society” on 8<sup>th</sup>-10<sup>th</sup> September 2016 at University Maharaja College and ISIS Jaipur
- 2016 National Seminar on Science and Technology- The Indian Perspective on 16<sup>th</sup> – 17<sup>th</sup> September 2016 at University of Rajasthan, Jaipur
- 2016 14<sup>th</sup> Annual National conference, Raj Geography Association “Rural development: Issues, Challenges, livelihood & Sustainability” Department of Geography, SRLS Govt PG College, Kaladera on 6<sup>th</sup>-8<sup>th</sup> October 2016
- 2015 Seminar on “Role of Technology in Skill Development” organized by commission for scientific and technology at IASE, Deemed University, GUN Sardarshahar on 19<sup>th</sup> – 20<sup>th</sup> August 2016.
- 2015 XXXVIII All India Conference of the Indian Botanical Society and National Symposium on emerging trends in plant sciences on 26-28 October 2015.Paper presentation:Biological activity of epegiec earthworm Earthworm Eisenia foetida during vermicomposting of weed *Tribulus terrestris*.
- 2015 International Conference on Current Research in Emerging Trends of Management, Arts, Science, Technology, and Skill Development.(CRETMASTSDEV) held on 18-19 December 2015 at Sun Rise University, Alwar.
- 2008 36<sup>th</sup> R G A National conference held at B R A Ambedkar PG Govt. College, Sriganganagar on Paper presentation :Potential Utilization of *Tribulus terrestris* as biofertilizer through vermitechnology

- 2003 XXVI All India Conference of the Indian Botanical Society and National Symposium on Plant Biology and Biodiversity in changing environment. December 29-31, 2003 at zamia Hamdard ,New Delhi.  
Paper presentation: Structure vascular Anatomy And Evolution of Neuter Ray Floret in the Asteraceae.
- 2000 XXIII All India Conference of the Indian Botanical Society and National Symposium on Microbes and Human Welfare( MICROBE 2000) October 14-16, 2000

## RESEARCH SCHOLARS PRODUCED

### **Anu Verma**

Ph.D., 2010

RegNo: F/UOD/Res/2006/15613

Potential Utilization of weeds in production of Biofertilizer production through vermiculture  
Biotechnology

### **Charandeep**

M.Phil., 2008

Physiochemical property of leaf litter vermicompost of an epigeic earthworm *Esineafotida* and its impact on growth of *Sorghum vulgare*

### **Rajesh Kumar Verma**

M.Phil., 2008

Physiochemical property of leaf litter vermicompost of an epigeic earthworm *Esineafotida* and its impact on growth of *Sorghum vulgare*

### **Vandana Saini**

M.Phil., 2008

A review of medicinal plants of Churu district

### **Manoj Kumar**

M.Phil., 2008

Weed flora of district Sri Ganganagar with special reference to rabi crops

### **Manjeet Singh Bagga**

M.Phil., 2008

# Studies of medicinal plants of Sri Ganganagar district