

**Name : Dr. RACHANA SINGH**

**D.O.B.:** 16-07-1978

**Designation :** Assistant Professor

**Department :** BOTANY

**College Name :** D.A-V. COLLEGE, KANPUR

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**Academic Qualification:** M.Sc. (Botany), Ph. D.

**Area of Specialisation :** Genetics and Plant breeding

**Title of the Thesis :** Genetic and stability analysis of yield and its components in feed and malt barley (*Hordeum vulgare* L.)

**Life membership of the societies:**

- Indian Science Congress
- Vigyan Bharti
- Indian Thinker Society

**Orientation Programme :**

- Successfully completed 4 week online Orientation Programme under Pandit Madan Mohan Malviya National Mission of Teachers and Teaching scheme of MHRD, Govt. of India, organised by Teaching Learning Center, Ramanujan College, University of Delhi held from dated 26 June to 24 July, 2020.

**Refresher Courses :**

- Successfully completed 2 week online Refresher Course/ Faculty Development Programme on "**RESEARCH METHODOLOGY: A LEARNING JOURNEY FROM BIVARIATE TECHNIQUES TO MULTIVARIATE TECHNIQUES**" under Pandit Madan

Mohan Malviya National Mission of Teachers and Teaching scheme of MHRD, Govt. of India, organised by Teaching Learning Center, Ramanujan College, University of Delhi held from dated 10-23 December, 2020.

- Successfully completed Inter- disciplinary and Multilingual 2 week Refresher Course/ Faculty Development Programme on "**Managing Online Classes and Co Creating MOOCS 4.0** " under Pandit Madan Mohan Malviya National Mission of Teachers and Teaching scheme of MHRD, Govt. of India, organised by Teaching Learning Center, Ramanujan College, University of Delhi held from dated 11-26 March, 2021.
- Successfully completed 2 week online Refresher Course/ Faculty Development Programme on "**Managing Online Classes and Co Creating MOOCS 7.0** " under Pandit Madan Mohan Malviya National Mission of Teachers and Teaching scheme of MHRD, Govt. of India, organised by Teaching Learning Center, Ramanujan College, University of Delhi held from dated 05-19 August, 2021.

#### **Workshops :**

- Attended National workshop on "Basic Techniques of Molecular Biology " held in the Department of Zoology, D.B.S. College, Kanpur from dated 4-5th August 2008.
- Attended National workshop on "Bioinformatics : Tools in Sequencing & Drug Targeting " held at Bioinformatics Infrastructure Facility Centre of D.B.T., P.G. Department of Zoology, D.G. P.G.College, Kanpur from 03-05th October 2011.
- Attended National seven day workshop on "Quantitative and qualitative analysis of Protein and Lipids".held at Department of Zoology, D.G P.G. College, Kanpur dated, 25 to 31 December 2017
- Attended National workshop on "E-Content Development for teaching and learning "organised by Govt. Girls P.G.College, Rampur on dated 21 June 2020
- Attended a workshop on "Plagiarism - an Opportunity to Learn, Teach and Grow" organised by Guru Nanak Dev University, Amritsar with the collaboration of Pandit Madan Mohan Malviya National Mission of Teachers and Teaching, MHRD Government of India, on dated 5 June 2020.
- Attended Seven day National E- Workshop on "Entrepreneurial Skill Development and Career Opportunities in Biological " organised by Zoology and Biotechnology department of Govt. Girls P.G.College, Ujjain (M.P.) under the MPHEQIP World Bank Scheme on dated 24-30 June 2021.

### Book articles :

- रचना सिंह,डा॰ सी॰बी॰सिंह,डा॰सी॰एल॰ मौर्या एवं डा॰वी॰ पी॰ कनौजिया (2003) बीज विधायन का महत्व एवं तकनीकी। कृषक भारती,फरवरी : 13- 14
- रचना सिंह,डा॰ सी॰बी॰सिंह एवं डा॰ वी॰पी॰ कनौजिया (2003) रबी में राई, सरसों व अलसी का सह उत्पादन। कृषक भारती,अगस्त :3- 4
- रचना सिंह,डा॰ सी॰बी॰सिंह गंगवार (2003) कैसे करें मसूर का गुणता बीज उत्पादन। कृषि मंगल, नवंबर: 7-8

### Conferences :

- Attended National Conference on "Seed: A Global perspective " held at Indian Agricultural Research Institute. New Delhi from 26-28 March 2004.
- Attended International Conference on " Post Harvest Technology and Value Addition in Cereals, Pulses and Oilseeds" held at Department of Agricultural Biochemistry, C.S.Azad University of Agriculture & Technology, Kanpur from 27-30 November 2006.
- Participated in National E-Conference on "Covid-19 Crisis : Its impact, challenges and Strategy to Environment " organised by Shri Krishna University, Chhatarpur, M.P. on May 25-26, 2020.
- Participated in the International Web-Conference on " Impact of Covid-19 on Education System " organised by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, MS on dated, 30 May, 2020.
- Participated in the International Web-Conference on " Covid-19 : Roadmap To Future Environment" organised by Department of Botany, St. Johns College, Agra, on dated, 5 June, 2020.
- Participated in the International Web-Conference on " Pandemic Covid-19 : Glocal impact on Environment and Sustainable development " organised by IQAC Cell , DDU Govt. P.G. College, Saidabad,Prayagraj U.P. dated 5-6 June, 2020.
- Participated in the International E-Conference on " Impact of Covid-19 on Society, Economy & Environment: Challenges, Solution & Possibilities " organised by M.J.D Govt. College Taranagar, Churu (Rajasthan) on 13 -14 June 2020.
- Participated in the International E-Conference on " Responsible research and innovation in Management and Human Sciences", London School of Management Education on 19-20 August 2020.

### Faculty Development Programmes :

- Participated in one week online faculty development programme on "**Research Methodology, Tools & Techniques** " under Pandit Madan Mohan Malviya National Mission of Teachers and Teaching scheme of MHRD, Govt. of India, organised by Atma Ram Sanatan Dharma College, University of Delhi, collaboration with Teaching Learning Center, Ramanujan College, University of Delhi held from dated 5-11 June 2020.
- Participated in a one week Faculty Development Programme on "**Research Methodology, Tools & Techniques** " organised by department of History, M.V.Muthiah Govt. Arts College for Women, Dindigul, Tamilnadu, India from dated 18-24 June, 2020
- Participated in a one week online faculty development programme on "Research Methodology, Tools & Techniques " under Pandit Madan Mohan Malviya National Mission of Teachers and Teaching scheme of MHRD, Govt. of India, organised by Atma Ram Sanatan Dharma College, University of Delhi, collaboration with Teaching Learning Center, Ramanujan College, University of Delhi held from dated 5-11 June 2020.

### Seminars :

- C.L.Maurya, **Rachana Singh**, Poonam Singh, V.P. Kanaujia and Meera Srivastava (2003). Standardization of serves for grading of sunflower seeds (*Helianthus annus L.* ) Paper presented at National Seminar on "Stress Management in Oilseeds for attaining self reliance in Vegetable oils" organised by DOR, Hyderabad from dated 28-30 January 2003.
- C.L.Maurya, **Rachana Singh**, Poonam Singh and V.P. Kanaujia (2003). Influence of seed size on germination and seedling growth of maize genotype (*Zea mays L.*) Paper presented at National Symposium on "Biochemical approaches for utilization and exploitation of commercially important plants " held at AAU, Jordan from 12-14 November 2003.
- C.L.Maurya, **Rachana Singh** and Poonam Singh(2003). Effect of seed size on germination and seedling growth of sunflower (*Helianthus annus L.*) Paper presented at National Seminar on "Physiological Intervention for Improved crop productivity and quality opportunities and constraints " held at S.V. Agricultural College, Triupati from 12-14 December 2003.
- C.L.Maurya, **Rachana Singh** and Poonam Singh(2003). Effect of seed size on germination and seedling growth of soybean ( *Glycine max L.*) Paper presented at National Seminar on "Physiological Intervention for Improved crop productivity and quality opportunities and constraints " held at S.V. Agricultural College, Triupati from 12-14 December 2003.

- C.L.Maurya, **Rachana Singh**, Poonam Singh and K.K.Vaidya (2003). Standardization of sieve aperture size for grading of Urd bean. Paper presented in National Symposium on "Pulses for crop diversification and natural resource management " held at I.I.P.R.Kanpur from 20-22, December 2003.
- **Rachana Singh**, V.P. Kanaujia, Laxmi Singh and Shailendra Singh (2006). Study of Correlation Parameters in Barley (*Hordeum vulgare* L. ) paper presentation in National Seminar on "Innovation in Bioscience " held at Department of Zoology, D.B.S College, Kanpur from dated 11-12 December 2006.
- **Rachana Singh**, Laxmi Singh and Archana Tiwari (2007). Correlation studies on yield contributing traits in Tomato (*Lycopersicon esculentum* L.) Paper presented in National Seminar on "Combating pollution to create a healthier Planet " held at D.G.P.G. College, Kanpur from dated 10-12, December 2007
- **Rachana Singh**, Archana Tiwari and Laxmi Singh (2007). Environmental interaction against the growth parameters of Potato (*Solanum tuberosum* L.) Paper presented in National Seminar on "Combating pollution to create a healthier Planet " held at D.G.P.G. College, Kanpur from dated 10-12, December 2007.
- **Rachana Singh**, Laxmi Singh and Archana Tiwari (2007). Studies on the absorption of heavy metals in Cereals crops. Paper presented in National Seminar on "Combating pollution to create a healthier Planet " held at D.G.P.G. College, Kanpur from dated 10-12, December 2007.
- Attended National Seminar on "Changing Environment: Present Scenario and its Conservation" held at D.B.S.College, Kanpur on dated December 1-2, 2011.
- **Rachana Singh**, S. Arya and U.C.Tiwari (2007). Effect of plant bio-regulators on flower and fruit production of tomato (*Lycopersicon esculentum* Mill) Cv Naveen. Paper presented in National Seminar on "Combating pollution to create a healthier Planet " held at D.G.P.G. College, Kanpur from dated 10-12, December 2007
- **Rachana Singh** (2007). Attended National Seminar on " Plant and Human Welfare: Past to Present " held at D.B.S.College, Kanpur on dated 24 December 2007
- **Rachana Singh**, I.B.Pandey (2009) Anthropogenic causes and remedies of water pollution. Paper presented in National Seminar on " Environmental Science and Engineering " held at B.V.P.G.College, Mandhana, Kanpur on dated 23 January 2009
- **Rachana Singh**, Arun Singh and V.P.Kanaujia (2009). Study of correlation coefficient analysis in Barley (*Hordeum vulgare* L). Paper presented in a National Seminar on

"Environmental Degradation and Biodiversity: Problems and Prospects' ' held at D.A-V. College,Kanpur on 29-30 November 2009.

- Arun Singh and **Rachana Singh** (2009). Heritability and Genetic advance studies for grain yield related attributes in Barley (*Hordeum vulgare* L). Paper presented in a National Seminar on "Environmental Degradation and Biodiversity: Problems and Prospects" held at D.A-V. College,Kanpur on 29-30 November 2009.
- **Rachana Singh** (2009). Angiosperms with relevance to Ayurvedic mode of treatment found in and around UNNAO district -1. Paper presented in National Seminar on "Recent trends in biological scenario " organised by department of Botany D.G.P.G.College, Kanpur on dated 3 December 2009.
- **Rachana Singh** (2009). Angiosperms with relevance to Ayurvedic mode of treatment found in and around UNNAO district -2. Paper presented in National Seminar on "Global Perspective of Biological Researches in present scenario" organised by department of Botany D.G.P.G.College, Kanpur on dated 7-8 December 2010.
- Attended National Seminar on " Changing Environment: Present Scenario and its Conservation" held at D.B.S.College,Kanpur on dated 1-2 December 2011.
- Attended National webinar on " Medicinal and Aromatical Plants for Boosting Immunity in the era of COVID-19" held at Department of Botany, D.D.U.Gorakhpur University,Gorakhpur on 29 May 2020.
- Attended Indo- Iranian Webinar on "Evolving Perspectives of Covid-19: Health andGlobal Landscape" organised by University Institute of Health Sciences,C.S.J.M. University, Kanpur in association with Swami Vivekanand Cultural Center, Embassy of India, Tehran, Iran held on dated 30 May, 2020.
- Attended National Seminar on "Environment, Development and Quality of life" organised by IGNOU, Regional Center, Lucknow in collaboration with Netaji Subhas Chandra Bose Govt. Girls P.G.College,Aliganj,Lucknow on dated 04 June 2020.
- Attended National webinar on "Who Cares About Threatened Plant and Animals ? " organised by Arvindbabu Deshmukh Mahavidyalaya, Bharsingi,Narkhed,Nagpur on dated 05 June 2020,Time 11:00- 1:00 pm.
- Attended International webinar on " Indian Literature and Culture in Respect to Covid -19" organized by Department of Hindi, Bareilles College, Bareilles on dated 12 June 2020.
- Attended International webinar on "आत्मनिर्भर भारत: चुनौतियाँ एवं समाधान" organized by NEEV- A Social Educational Institute of IIT Alumni on dated 13 June 2020.

- Participated in the International Webinar on " Search for a cure against Covid-19 : Data Analytics Virtual Screening and Drug Discovery" organised by Department of Sociology, St. Johns College, Bangalore on dated, 13 June 2020.
- Participated in the International Webinar on " Nurture, Nature, Nature will Nurture " organised by Nature Club , R.K.T. College of Arts and Commerce, Ulhasnagar-3, 15 June, 2020.
- Participated National webinar on "Plant Diversity- Conservation" organised by Department of Botany, M.V.S. Govt. Arts and Science College (A) Mahabubnagar, Telangana on dated 19 June 2020
- Participated National webinar on " Recent Trends in Paleobotany" organized by at D.G.P.G.College, Kanpur on dated 26 June 2020.
- Participated in the International Webinar on " Tools for Language Classroom" organised by Arts and Commerce College, Gadag, KS., 3 August 2020.

#### Research papers :

1. C.L. Maurya, **Rachana Singh** and Poonam Singh (2003). Effect of sieve sizes on the recovery and seed quality of sunflower seeds (*Helianthus annuus* L.) Farm Science Journal Vol. 12(2)2003, November 2003.
2. **Rachana Singh**, Javed Ahmad Siddiqui, Irfana Khan and Pratibha Mishra (2021). Study of correlation coefficient analysis in Barley (*Hordeum vulgare* L.) Gradiva Review Journal Vol. 7(6) 2021, ISSN: 03638057, Page No. 428-431.
3. Irfana Khan, **Rachana Singh** and Pratibha Mishra (2021). Heritability and Genetic advance study for grain yield and related attributes in husked Wheat (*Triticum vulgare* L.). Gradiva Review Journal Vol. 7(6) 2021, ISSN: 03638057, Page No. 413-416.