

CURRICULUM VITAE



DR. KULDEEP KUMAR
M.Sc. (Gold Medalist),
Ph.D Genetics and Plant Breeding (GBPUA&T, Pantnagar).
NET (JRF) DST INSPIRE National Award (Government of India).

Current address:
Assistant Professor
Department of Botany
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Vill.- Susada,
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CAREER OBJECTIVE:

- ✓ To seek challenging & growth oriented career in the field of Botany, Genetics and Plant Breeding, Molecular Biology, Plant Biotechnology, Cytology and Cytogenetics.
- ✓ To develop Professional & Research Skills in the field concerned.
- ✓ To serve for the mankind through biological innovations.
- ✓ To make my Nation prosperous in the field of Plant sciences and Agricultural Sciences.

ACADEMIC ACHIEVMENTS:

- a) Awarded **DST INSPIRE** National Fellowship, Designation as **JRF-Professional** for pursuing full-time Doctoral (Ph.D.) Program through Department of Science & Technology, Government of India, New Delhi.
- b) Expert to preparation of Program Syllabus Booklet of B.Sc. Agri., M.Sc. Agri. and Ph.D. Genetics & Plant Breeding for **NAAC accreditation**.
- c) Expert to preparation of Self Study Report for **ICAR accreditation**.

Administrative duties:

- a) Performed the **Head of the Department** Genetics and Plant Breeding.

Awards:

- a) **Young Faculty Award 2021**, awarded by International Benevolent Research Foundation, Kolkata WB.
- b) **Top - 20 Eminent Researchers Award** of year **2023**.
- c) **Young Scientist Award 2024**, Jointly awarded by ICAR, Indian Society of Genetics and Plant Breeding, New Delhi and Hindustan Agricultural Research Welfare Society, Agra (U. P.).
- d) **Bharat Ratna Dr. M. S. Swaminathan Award (ICAR-2025)**

Book:

1. **Crop Improvement Prospectives (2024)**, Authored: Kuldeep Kumar and R. K. Panwar
Published by Lambert International Publisher (ISBN: 9786207842124).

Book chapters:

1. **Future trends in Genetics and Plant Breeding (2024)**, Book – Smart Agronomy: Emerging Technologies and Sustainable Practices , published by Pustakalaya Publisher Lucknow (ISBN : 978-93-91900-88-5).
2. **Plant Breeding for Agronomy (2025)**, Book - Agronomy for the Future : Sustainable Techniques and Climate Resilient, published by Pustakalaya Publisher Lucknow (ISBN : 978-93-91900-36-6).
3. **Biotechnology for drought and salinity stress resistance (2025)**

Book - Cutting - Edge of Agronomy (2025) published by Pustakalaya
Publisher Lucknow (ISBN : 978-93-91900-22-9).

4. Pearl Millet : A Nutritional Powerhouse (2025) Book - Green Horizons:
Pioneering Sustainable Agriculture and Horticulture Production
(ISBN : 978-93-48121-33-2).

5. Molecular Basis of Genetic Variation and Mutation in Plants (2025)
Book- Molecular Genetics and Breeding of Plants (From DNA to Crop
Improvement) (ISBN: 978-93-48843-26-5).

6. Genomics, CRISPR and Molecular Breeding in Horticulture (2025)
Book - Horticulture 5.0 (ISBN : 978-81-994282-1-8).

Patent:

1. IOT Based Solar Power Agriculture Robot (C.B.R. No. **211988** and application No. **422632 - 001**).
2. AI- Guided gene expression modulation platform(GEMP) with CRISPR and gene expression sensors (C. B. R. No. **58877** and application No. **202411071758**).
3. AI - Personalized seed priming for enhanced germination and vigour (SPEGV) with seed germination sensor (C. B. R. No. **66695** and application No. **202411084806**).
4. Real - Time Multispectral imaging based phenotyping platform for precision Agroforestry (Application No. **202411093072**).

Project:

Proposed title: Host-pathogen interaction and Molecular markers-based scouting of yellow rust resistance (*Yr*) genes among wheat genotypes In Punjab, Submitted to Department of Science and Technology (Ministry of Science) New Delhi, June-2023.

RESEARCH GUIDANCE/ ADVISOR:

a) **Three Ph.D** students of **Genetics and Plant Breeding**.

EXPERIENCE:

- a) **Four years teaching experience** in the field of Plant Science at **B.Sc. M.Sc. and Ph. D (Genetics and Plant Breeding)** programme. and two years performed the duties as an Assistant Agriculture Officer.
- b) **One year** research experience as a Senior Research Fellow under the Ad-hoc project entitled “ **Pre Breeding for Genetic Enhancement of Ethiopian (*Brassica carinata* A Braun) and Indian Mustard (*Brassica juncea* Czern & Coss) Gene Pool.**”
- c) Good experience to present the Lecture in Both the Languages like Pure **Hindi** and **English**.
- d) Good experience in“ **Cultivation of Rice**”
- e) Good experience in “ **“Cultivation of Wheat”**”
- f) Good experience in“ **“Cultivation of Lentil”**”
- g) Good experience in“ **“Cultivation of Sugarcane”**”
- h) Good experience in“ **“Cultivation of Poplar”**”
- i) Good experience in “**Sericulture**” .

RELEVANT COURSES :

- Advances in Plant Breeding Systems
- Genetics
- Methods of Plant Breeding
- Molecular Genetics & Biotechnology
- Cytology and Cytogenetics
- Variation and Evolution of Crop Plants
- Crop Physiology & Biochemistry
- Heterosis Breeding of Field Crops
- Molecular and Chromosomal Manipulation for Crop Breeding
- Advanced Biometrical and Quantitative Genetics

- Population & Biometrical Genetics
- Genomics in Plant Breeding
- Seeds Laws, DUS Testing and Plant Variety Protection
- Quality Breeding in Crop Plants
- Advanced Experimental Design
- Advances in Seed Science Research
- Seed Production Technology
- Agricultural Statistics
- Principles of Plant Pathology
- Plant Disease Management
- Mushroom Cultivation
- Crop Improvement I & II (Rabi and Kharif Crops)
- Micropropagation Technology
- Intellectual Property Rights

SEMINARS/SYMPOSIUM/WORKSHOP/TRAINING ATTENDED:

1. Awareness-cum- Training Programme on **PPV & FR Act, 2001** on 13th November, 2010 at Department of GPB, GBPUA&T, Pantnagar.
2. Awareness-cum- Training Programme on **PPV & FR Act, 2001** on 24th March, 2012 at Department of GPB, GBPUA&T, Pantnagar.
3. First National Conference on “**Recent Advances in Pharmaceutical Biotechnology With Emphasis on Bio-diversity Conservation**”, Feb.25-26,2012 at Dev Bhoomi Group of Institutions, Dehradun.
4. Participated in **three days** National Workshop on “**Scientific/ Research Paper Writing**” from November 08-10, 2012 organized by The National Academy of Sciences, India in the Academy at Allahabad.
5. Participated in **four days** training /workshop on “**Functional Genomics and System Biology in Agriculture**” from September 15th-18th , 2012 organized by bioinformatics sub – DIC, Pantnagar and sponsored by Department of Biotechnology, Government of India, New Delhi.
6. Participated in one day seminar on “**Prospects and Applications of Biotechnology in Biomedical sectors**” on November 7th, 2012 organized by the Department of Molecular Biology & Genetic Engineering, Pantnagar.
7. National Seminar on “**Protected Cultivation of Vegetables and Flowers: A Value Chain Approach**” January 11-12, 2012, Department of Vegetable Science, GBPUA&T, Pantnagar.
8. National Seminar on Modern Agriculture and Technology on Climate Change (“**Commission for Scientific & Technical Terminology**”) Dec. 16-17,2016 Organized by G. B. Pant University Pantnagar.
9. National Webinar on “**Integrated Farming System and Farmers Income**” on November 5th,2020 organized by Dept. of Agronomy, RCA, MPUAT, Udaipur, Rajasthan under IDP-NAHEP (ICAR) New Delhi.

10. National Webinar on “**Krishi Shiksha ke Nye Aayam Evam Avsar**” on Dec.3rd ,2020 organized by Directorate of Research , MPUAT,Udaipur,Rajasthan under IDP-NAHEP (ICAR), New Delhi.
11. National Webinar on “**Plant Genetic Resource Management and Biotechnological Approaches**” on Dec. 4th ,2020 organized by Dept. of Genetics and Plant Breeding, RCA, MPUAT, Udaipur, Rajasthan under IDP-NAHEP (ICAR), New Delhi.
12. National Webinar on “**Soil Health and Agriculture Sustainability**” on Dec. 5th ,2020organized by Directorate of Research , MPUAT, Udaipur, Rajasthan.
13. National Webinar on “**Research Publications in SCI and Scopus Indexed Journals**”on Dec. 8th 2020 organized by College of Community and Applied Sciences, MPUAT, Udaipur, Rajasthan under IDP-NAHEP (ICAR), New Delhi.
14. Natioal Webinar on “**Nematodes A Continuing Bottleneck in Crop Production: Available Technologies and Recent Advances**” on April 6th 2021 organized by Department of Nematology, Rajasthan College of Agriculture, MPUAT, Udaipur, Rajasthan.
15. National Webinar on “**Secondary Agriculture for Agricultural Income Enhancement**” on April 9th 2021 organized by Department of Horticulture, Rajasthan College of Agriculture, MPUAT, Udaipur, Rajasthan under IDP-NAHEP (ICAR), New Delhi.
16. National Webinar on “**Digital Soil Science: Opportunities and Challenges**” on April 12th2021 organized by Department of Soil Science and Agricultural Chemistry, Rajasthan College of Agriculture, MPUAT, Udaipur, Rajasthan.
17. International Webinar on “**Climate Resilient Agriculture for Food and Health Security**” on April 16th 2021 organized by Department of Agronomy, Rajasthan College of Agriculture, MPUAT, Udaipur, Rajasthan.
18. National Webinar on “**Impact of COVID-19 on Aspects of Organic Farming, Soil Health and Food Security**” on May 1st 2021 organized by University Institute of Agricultural Sciences, Chandigarh University, Gharuan, Mohali, Punjab.
19. National Webinar on “**Managing Health and Stress during COVID-19**” on May 3rd 2021 organized by College of Community and Applied Sciences, MPUAT, Udaipur, Rajasthan.
20. National Webinar on “**Principles of Design: The Crux of Family Well-being**” on May 15th 2021 organized by the Department of Resource Management & Consumer Science,College of Community and Applied Sciences, MPUAT, Udaipur, Rajasthan.
21. National Webinar on “**Bee Engaged: Build Back Better for Bees**” on May 20th 2021 sponsored by State Govt. funded Rashtriya Krishi Vikas Yojana Project on “**Development of Organic Input Production of Organic Farming Technologies**”and organized by Directorate of Research, MPUAT, Udaipur, Rajasthan.
22. National Webinar on “**Our Solutions are in Nature**” on May 22nd 2021sponsored by State Govt. funded Rashtriya Krishi Vikas Yojana Project on “**Development of Organic Input Production of Organic Farming Technologies**”and organized by Directorate of Research, MPUAT, Udaipur, Rajasthan.
23. National Webinar on “**Mass Awareness Campaign on Organic Farming**” on May 24th 2021 organized by ICAR-All India Network Programme on Organic Farming, Directorate

- of Research, MPUAT, Udaipur, Rajasthan in collaboration with Indian Institute of Farming System Research, Modipuram, Meerut (Uttar Pradesh).
24. National Seminar on **“Teaching Learning in the Light of NEP-2020”** on May 27th 2021 organized by Department of Electronics & Communication Engineering, Punjabi University, Patiala, Punjab.
 25. National Webinar on **“Environmental Ethics & Ecological Restoration: Issues and Strategies”** to celebrate World Environment Day on the theme **“Ecosystem Restoration”** on June 5th 2021 organized by Directorate of Research, MPUAT, Udaipur, Rajasthan.
 26. National Webinar on **“Increasing Farmers Income: Way Forward”** on June 18th 2021 organized by MPUAT, Udaipur, Rajasthan.
 27. National Webinar on **“Sustainable Strategies for Enhancing Productivity & Profitability in Dryland Agriculture”** on June 29th 2021 organized by AICRP on Dryland Agriculture, Dryland Farming Research Station, Arjia, Bhilwara, Directorate of Research, MPUAT, Udaipur, Rajasthan.
 28. National Webinar on **“Right to Information Act-A Step Towards Good Governance & Transparency”** on June 29th 2021 organized by University School of Law, Guru Kashi University, Talwandi Sabo, Bathinda, Punjab.
 29. National Webinar on **“Microbial Technologies for Sustainable Agriculture and Climate Change Mitigation”** on July 7th 2021 organized by All India Project on Soil Biodiversity, Directorate of Research, MPUAT, Udaipur, Rajasthan.
 30. National Webinar on **“Research Methodology and Paper Writing”** on July 12th 2021 organized by Rajasthan College of Agriculture, MPUAT, Udaipur, Rajasthan.
 31. Participated in **Three Days Faculty Development Programme on “Citation Styles and Reference Lists”** on June 21st to 23rd 2021 organized by Department of Data Sciences, Siva Sivani Institute of Management, Kompally, Secunderabad, Telangana, India.
 32. Participated in **Three Days International Training Series on “Healthy Workplace Initiative Ergonomics”** on June 21st, 28th and July 5th 2021 organized by Directorate of Research and All India Coordinated Research Project on Home Science, College of Community and Applied Sciences, MPUAT, Udaipur, Rajasthan.
 33. Paper presented on **“COVID -19 pandemic and online learning management system : Education sector and future opportunities”** on 5th, 6th and 7th October, 2021 organized by International Benevolent Research Foundation, Kolkata (WB).
 34. **21 days national training -cum- workshop program on “Green revolution: A journey from Mexico to Bharat (24/09/23 to 14/10/23).** Organized by Hindustan Agricultural Research Welfare Society, Agra (U. P).
 35. International conference on **“Natural farming innovations : Enhancing soil health and seed quality with AI and drones for a greener agricultural future”** on 3rd - 5th November, 2024. Organized by ISGPB and HARWS.

FACULTY DEVELOPMENT PROGRAMME:

1. FDP on "Environmental Studies and Green Technology " under MM -TTP of University Grant Commission, MoE, GOI, organized by UGC-MMTTC, JNV University, Jodhpur, Rajasthan from 23rd to 30th January, 2025 With **grade A+**.

2.FDP on"NEP-2020: Orientation and Sensitization" under MM-TTP of University Grant Commission, MoE, GOI,organized by UGC-MMTTC, JNV University, Jodhpur, Rajasthan from 7th to 17th March, 2025 With **grade A+**.

ABSTRACTS:

- 1. Kumar, P.; Singh, P.; Singh, L.; Kumar, K. and Nautiyal, N. 2012.** Variance components and combining capability analysis for yield and its related traits in bread wheat (*Triticum aestivum* L.em. Thell.). In: 1st National Conference on Recent Advances in Pharmaceutical Biotechnology wiyh emphasis on Biodiversity Conservation. Feb. 25 – 26, 2012. DBGI, Dehradun, p. 29.
- 2. Kumar, P.; Singh, S. and Kumar, K. 2014.** Characters Relationship Study in Indian mustard (*Brassica juncea* L. Czern & Cross). In: National Conference on “ Perspectives & Trends in Plant Sciences and Biotechnology (PTAB-2014)□ . Feb. 21 – 23, 2014. PU, Chandigarh & SPR, India, p. 60.
- 3. Kumar, P.; Kumar, K. and Yadav, R.K. 2014.** Direct and Indirect effects of different Attributes and their Association to seed yield in Indian mustard (*Brassica juncia* L. Czern & Cross). In: National Conference on “ Science of OMICS for Agricultural Productivity: Future Perspectives□. March 4 – 6, 2014. GBPUA&T, Pantnagar. p. 122.
- 4. Kumar, P.; Kumar, K. and Kannan D. 2014.** Effect of abiotic factors on plant growth. National Symposium on “ ECM□ TECHNOLOGY FOR SAFE,SECURE AND PROFITABLE FOOD PRODUCTION. Oct.10 - 11,2014GBPUA&T, Pantnagar. p. 172.

RESEARCH PAPERS:

- 1. Kumar, K.; Kumar, P.; Panwar, R. K. and Arora, A. 2015.** Inter-relationship and Path Analysis study for yield and yield attributing traits in Lentil (*Lens culinaris* Medikus). Environment & Ecology, **33(4A): pp 1803-1810.**
- 2. Kumar, K.; Kumar, P.;Kumar, V. and Singh, L. 2015.** Genetic Variability, Inter-relationship and Path Coefficient Analysis for Different Quantitative Characters in Wheat (*Triticum aestivum* L.).Environment & Ecology,**34(1): pp 97-103.**
- 3. Kumar, P.; Kumar, K.; Singh, L. and Mohammad, N. 2013.**Combining Ability Analysis for Yield and Its Components in Bread Wheat (*Triticum aestivum* L.). Bioinfolet, **10(4B): pp. 1312-1318.**

4. **Kumar, P.; Kumar, K.; Yadav, R.K. and Lamba, A. 2014.** Analysis of Components of Genetic Variance for Yield and Yield Atributing Traits in Indian Mustard (*Brassica juncea* L. czern and coss). Research Journal of Agricultural Sciences, **5(2): pp. 297-299.**
5. **Shoukat A. Rather* , Indra Deo, Azad Hussain Khan , Kuldeep Kumar, Sudhir Kumar, Neeraj Singh and Gouri Shankar Panda.2016.**Standard seed box screening for brown plant hopper resistance and agro-morphological evaluation of advanced breeding lines of rice (*Oryza sativa* L.), Ecology, Environment and Conservation, **pp.(S17-S21).**
6. **Pardeep Kumar*, M.K. Nautiyal and Kuldeep Kumar.2016.** Inter – relationship and path analysis of different traits of two line hybrid in rice (*Oryza sativa* L.),Journal of Applied and Natural Science,**8(4): pp. 2016 -2020.**
7. **Pardeep Kumar*, M.K. Nautiyal, Pankaj Kumar and Kuldeep Kumar. 2016.** Morphological and Molecular based Characterization of different Thermo – sensitive Genetic Male Sterile (TGMS) line in Rice (*Oryza sativa* L.), Vegetos- An International Journal of Plant Research, **29:4 pp. 2-10.**
8. **Kuldeep Kumar, R. K. Panwar*, M.K. Karnwal**, R K Behl, Arushi Padiyal, Sonali Sharma,Pooja Karki and Shivani Sharma. 2024.** Variability, Heritability and Genetic advance Analysis for yield and its components in Lentil (*Lens culinaris* Medikus),Frontiers in Crop Improvement, **12(2): pp 119-122.**
9. **Raksha, Shivani Sharma, Amit Dhankar, Mahesh Rana, Shiksha, Kuldeep Kumar and Abha Thakur. 2024.**Agronomic Interventions for Alleviating Water Stress and Optimizing Productivity of Field Crops: A Review, International Journal of Environment and Climate Change, **14(9): pp 669-680.**
10. **Anil Kumar, Jyotsana Mishra, Mahendra Pratap Singh, Rajeeb Lochan Moharana, Kuldeep Kumar, Virendra Singh, Kushal Sachan and Chandra Shekhar. 2024.** Interaction effect of nitrogen levels on leaf area index, dry matter accumulation and nitrogen uptake of wheat crop (*Triticum aestivum* L.): African Journal of Biological Science **6(15): pp 12253-12264.**
11. **Kuldeep Kumar, Avimanyu Palit, Simran Sindhu, Divya D, Yogita, Rajeeb Lochan Mohrana, Smriti Hansda and Anil Kumar. 2024.** Artificial intelligence and machine learning in soil analysis innovations for sustainable agriculture - A review: International Journal of Advanced Biochemistry Research **8(11): pp 869-878.**
12. **Ravi Pratap Singh, Ramesh Chand, Kuldeep Kumar, Devi Singh, B. K. Mishra, R. Arya and N. K. Tiwari. 2025.** Underutilized fruit crop multiplication through micropropagation technique: A review. International Journal of Advanced Biochemistry Research. **SP - 9(1): pp 839-842.**
13. **Sonali Sharma, Jatinder Kumar Dubey, Deepika Shandil, Amit Dhankar, Kuldeep Kumar, Shivani Sharma, Pooja Karki and Abha Thakur. 2025.** Persistence of Tebuconazole and combination of Fipronil and Imidacloprid in chilli soil after spraying application. Plant Archives. **25(1): pp 838 - 845.**
14. **Dhanush G, Tarun V Naik, Dayanandanaik S, Rammiwas Veishnav, Kuldeep Kumar, AP Singh, Rahul Pradhan and Anil Kumar. 2025.** The role of agroforestry in carbon sequestration and climate adaptation: A review. International journal of Research in Agronomy. **8(2): pp 350 - 363.**

15. **Ravi Pratap Singh, Kokab Askari, Kuldeep Kumar, Ramesh Chand, Devi Singh and Mahendra Pratap.2025.** An overview on Mahua (*Madhuca indica*): Underutilized important minor fruit crop. *International Journal of Agriculture Extension and Social Development.* **8(9): pp 377 - 381.**
16. **Ravi Pratap Singh, Kuldeep Kumar, Ramesh, Devi Singh, R. Arya, Mahendra Pratap and Gurbir Singh. 2025.** Utilizing Molecular Markers in fruit Plants : A Review. *Plant Archives.* **25(2): pp 20-25.**
17. **Sakshi, Amit Dhankar, Shivani Sharma, Sonali Sharma, Kuldeep Kumar, Raksha and Shiksha. 2025.** Impact of agronomic approaches in optimizing weed control and productivity of black gram [*Vigna mungo* (L.) Hepper]: A review. *International Journal of Research in Agronomy.* **SP - 8(10): pp 01-07.**
18. **Arushi Padiyal, Narender K. Bharat, R. K. Behl, Kuldeep Kumar and Jagdeep Singh. 2026.** Multiple Functions of Plant Defense Activators: Implications for Bolstering Plant Growth Promotion and Crop Protection. A review. *Journal of Crop Health.* **78:32 pp 01-13.**

ARTICLES:

1. **Kumar, K.and Kumar, P. November, 2013.** Uttarakhand me Masoor ki unnatsheel kheti, *Kisan Bharti*, pp. 11 - 12.
2. **Nautiyal, N.and Kumar, K. November, 2013.** Chane ki unnatsheel kheti ke liye sujhav, *Kisan Bharti*, pp. 13 - 14.
3. **Kumar, K. and Panwar, R. K. December, 2013.** Breeding for plant Ideotype in Cereal Crops, *Indian Farmers Digest*, pp. 40 -44.
4. **Kumar, K. and Kumar, P. February, 2014.** Ekikrat Nashijive Prabandhan ka Mahattav, *Kisan Bharti*, pp. 14 and 19.
5. **Kumar, K.; Kumar, P. and Panwar, R. K. July 2014.** Mechanisms of Resistance to Insect Pests in Crop Plants, *Indian Farmers Digest*, pp. 38 - 41.
6. **Kumar, P.; Kumar, K. and Nautiyal, M. K. August 2014.** Rice (*Oryza sativa* L.) Hybrids: Seed Certification Standards, *Indian Farmers Digest*, pp. 41- 42.
7. **Kumar, P.; Nautiyal, M. K. and Kumar, K. September 2014.** A Strategy of Breeding for Organic conditions safe for humankind and environment, *Indian Farmers Digest*, pp. 40 - 42
8. **Kumar, K. November, 2024.** Genomic selection in plant breeding : A new era for crop improvement, *Agriculture and Food: E- Newsletter.* pp. 579-582.
9. **Kumar, K; Panwar, R. K; Karnwal, M. K; Padiyal, Arushi and Sharma, Sonali November, 2024.** Padap Prajanan Ka Mahatav, *ICAR - Kheti*, pp. 29-31

MEMBERSHIP:

1. Life membership in **Indian Science Congress Association** Kolkata, West Bengal.
2. Life membership in **Society of Agricultural Research and Social Development**, Gurugram, Haryana India.
3. Life membership in **Society for Agriculture and Arid Ecology Research**, Division of Crop Improvement, ICAR-Central Institute for Arid Horticulture, Bikaner Rajasthan.

RESEARCH WORK:

- (a) **Ph.D research work on “ Estimation of Genetic Diversity Based on Morphological and Molecular Markers in Lentil (*Lens culinaris* Medikus).**
- (b) Research experience as a Senior Research Fellow under the Ad-hoc project entitled **Pre Breeding for Genetic Enhancement of Ethiopian (*Brassica carinata* A Braun) and Indian Mustard (*Brassica juncea* Czern & Coss) Gene Pool”**

CO-CURRICULAR ACTIVITIES:

- Worked in the post of General Secretary and Vice President in Plant Breeding and Genetics Society at G. B. Pant University of agriculture and Technology, Pantnagar.

COMPUTER EFFICENCY:

- Statistical programmes for Augmented Block Design (ABD), Completely Randomized Design (CRD) and Randomized Block Design (RBD).
- Having good working knowledge of windows operating system XP, Vista & MS Office.

TECHNIQUES KNOWN:

- Design of Experiment in Field.
- Analysis of Data from Field Experiments.
- Plant Tissue Culture.
- PCR based molecular work.
- Crossing in crop plants.
- Grafting.
- Air layering.
- Budding.
- Techniques of cultivation.

Advisory Members (Ph. D)

Dr. R. K. Panwar, Formerly Professor and Head, Genetics & Plant Breeding, G.B. Pant University of Agri. & Tech. Pantnagar, U.S.Nagar, Uttarakhand.

Dr. H.S. Chawla Formerly Professor and Head, Genetics & Plant Breeding, G.B.Pant University of Agri. & Tech. Pantnagar, U.S. Nagar, Uttarakhand.

I hereby solemnly declare that all the information furnished is true to the best of my knowledge.

Place: Haridwar

(KULDEEP KUMAR)

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