

## PERSONAL INFORMATION

**Name** : Dr. Archana Tiwari  
**Date of Birth** : 10-07-1968  
**Place of Birth** : Kanpur  
**Husband's Name** : Mr. Satya Prakash Tiwari  
**Address** : 117/422, 'O' Block Geeta Nagar, Kanpur-208005  
**Designation** : Assistant Professor  
**Subject** : Botany  
**Date of Appointment** : 03.08.2006  
**Institute** : D.A.V. (P.G.) College, Civil Lines, Kanpur  
**Research Specialization** : M.Sc. (Plant Pathology)  
Ph.D. (Biometrical Genetics)  
**Post Doctorate Research Experience** : **A. Research Experience** : 10 years

### **Post Doctorate Research Experience in Various Institution:**

1. At National Botanical Research Institute (N.B.R.I.) Lucknow as Research Associate in D.B.T. Project entitled "**Biotechnological investigation in citrus and mango for their crop improvement and increased their production**" from 25 July 1994 to 10 July 1996.
2. At Indian Institute of Pulses Research (I.I.P.R.), Kanpur as a Research Associate in D.B.T. Project entitled "**Development of genotype of chickpea and pigeon pea resistance to biotic stresses through biotechnological means**" from 11 July 1996 to 30 September 1997.
3. At IIPR Kanpur as a Research Associate in ICAR-CESS fund project entitled "**Development of genotype of chickpea tolerant to salinity through in vitro cellular approaches**" from 23 May 1998 to remained till 26.03.2001

## **B. Specialization**

1. Tissue culture in Horticultural crops
2. Tissue culture in legume crops.

## **C. Salient Research Findings / Significant Achievements:**

1. Nucellar Embryogenesis in citrus and mango (mangifera)
2. Micropropagation in horticulture crops
3. Cell suspension culture in citrus
4. Regeneration protocol in chickpea and Pigeonpea
5. Wide hybridization in chickpea

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**Teacher Code** : T-3412

## **DETAILS OF QUALIFICATION**

<b>Level</b>	<b>Board/University</b>	<b>Year</b>	<b>Division</b>
Ph.D.	Kanpur University	1993	Awarded
M.Sc.	Kanpur University	1990	1st
B.Sc.	Kanpur University	1988	2nd
Intermediate	U.P.Board, Allahabad	1986	2nd
High School	U.P.Board, Allahabad	1983.	2nd

## **TEACHING EXPERIENCE**

19 Years Teaching Experience

- July 2001 - Aug. 2004 ( Khalasa Girls Degree College, Kanpur)
- Aug. 2004 - July 2006 (Saraswati Mahila Mahavidyalaya, Kanpur)
- Aug. 2006 - March 2019 [D.A.V. College, Kanpur]

## **PROFESSIONAL EXPERTISE /TRAINING**

- **ORIENTATION PROGRAMME: 2020**
- Four week Induction/orientation programme for faculty in universities/ Colleges/Institutes of Higher Education. Under the agency of Ministry of Human

Resource Development Pandit Madan Mohan Malviya National Mission on Teachers and Teaching by Teaching Learning Centre Ramanujan College, University of Delhi from June 26-July 24-2020.

- **REFRESHER COURSES/FDP:**

- One week online faculty Development Programme on "Blended Learning & Pedagogical Techniques" under Universities/ Colleges/Institutes of Higher Education. Under the agency of Ministry of Human Resource Development Pandit Madan Mohan Malviya National Mission on Teachers and Teaching by Teaching Learning Centre Ramanujan College, University of Delhi from June 2-29 January 2022.
- One week F.D.P. Programme on "Entrepreneurship, Incubation and Innovation" by Teaching Learning Centre Ramanujan College of Delhi Sponsored by MHRD Pandit Madan Mohan Malviya National Mission on Teachers and Teaching held at 23rd June to 29th June 2020.
- Two weeks F.D.P. Programme "Online Teaching Pedagogies" (Developing competencies for Best Practices) by Gautam Buddha University held at July 20 to Aug. 02.2020
- Two week online Faculty Development programme on "Research Methodology" under Teaching Learning Centre Ramanujan College University of Delhi Sponsored by MHRD Pandit Madan Mohan Malviya National Mission on Teachers and Teaching held at 01 October to 15 Oct. 2020.
- Two week online Faculty Development Programme on Interdisciplinary Refresher Course in Environmental Studies on the theme under Teaching Learning Centre Ramanujan College University of Delhi Sponsored by MHRD Pandit Madan Mohan Malviya National Mission on Teachers and Teaching held at 15 July to 29th July 2021.\
- One week online Faculty Development programme on "Advanced Pedagogical Techniques" under Teaching Learning Centre Ramanujan College University of Delhi Sponsored by MHRD Pandit Madan Mohan Malviya National Mission on Teachers and Teaching held at 30 June to 06 July 2021.

- ❖ **Award:**

- Excellence in Teaching on the occasion of international Web Conference on Global Research Initiatives for Sustainable Agriculture and Allied Sciences (GRISAAS-2020) During 28-30 December, 2020.

- **Research Publication:**

**List of published research papers of Dr. Archana Tiwari (Formely Mishra)**

**A) Full Length**

- Archana Tiwari, Archana Mishra, Vishal Saxena, Swati Saxena & A.P. Raghuvanshi (2020). Association of Characters and selection parameters for high tuber yield in Potato (*Solanum Tuberosum L.*) Tropical Plant Research (2020) Vol. 7: 205-208.
- Archana Mishra & Archana Tiwari (2020). Role of Keratinophilic Fungi in Nature Published in Open Access Journal of Agriculture Research (2020) Volume 03 Issue (02) OAJAR-100035.
- Archana Mishra & Archana Tiwari (2021). Effects of Global Climate Change on Agriculture: An Interpretative Review (2021) Agriculture and Food: e-Newsletter ISSN:2581-5317.
- R.S. Katiyar, A. Mishra and A. Prasad (1996). Genetics of bitter gourd (*Momordica charanita*) Indian Journal of Agriculture Science 66 (9) : 551-552.
- N.P. Singh, Archana Tiwari, Renu and A.N. Asthana (1998). In vitro culture and regeneration in pigeonpea (*Cajanus cajan L.*) Indian J. Pulses Research 1191) : 23-27.
- Archana Tiwari and N.P. Singh and A.N. Asthana (1999). Effect of sucrose concentration on in vitro regeneration in pigeonpea (*Cajanus cajan L.*) International Chickpea Pigeonpea News Letter, 38 (6) : 61-62.
- Archana Tiwari (2009). Effect of growth regulator on Biochemical Composition of Acid lime. Paper published in Proceedings of National Seminar on Environmental Degradation and Biodiversity Problems & Prospects Sponsored by UGC held at 29-30 at D.A.V. College, Kanpur.
- A.N. Asthana, N.P. Singh, S.N. Gurha, Sudha Asthana Archana Tiwari and Archana Siongh (1997-98). Development of genotypes of pigeonpea & chickpea resistance to biotic stress through biotechnological means. Annual Report IIPR IPM B-41-42.
- B.Singh, A. Prasad, A. Mishra, R.K. Singh and R.S. Katiyar (1990). Associated analysis of yield component in Okra. Farm Science Journal 5 (1&2): 115-117.
- A. Mishra, A. Prasad and P.D. Singh (1991-94). Estimate of heritability and correlation studies in potato. Farm Science Journal 6 (6&9) : 67-71.

- A. Prasad, U.B. Singh, A. Mishra and R.S. Katiyar (1991-94). Studies on heritability and genetic advance in late varieties of mango (*Mangifera indica* L.) Farm Science Journal 6(6&9) : 178-180
- S.K.S. Chauhan, A.Mishra, A. Suresh, A. Prasad and V.S. Chandel (1992). Studies on environmental path coefficient analysis in garlic (*Allium Sativum* L.) Progressive Horticulture 24 (3&4) : 192-196.
- A. Prasad, M. Agarwal, R.M. Dwivedi and A. Mishra (1992). Effect of N,P, K on flowering in rose. Proceeding on International Seminar on new hunter horticulture held at Banglore. Pp: 76-79.
- A. Prasad, S.K.S. Chauhan, A. Mishra and V.S. Chandel (1993). Studies on genetic variability and path analysis in garlic (*Allium sativum* L.) Prograssive Horticulture 25 (1&2) : 9-14.

#### **Publications (Abstracts)**

- A. Prasad, A. Mishra and S.K. Roy (1993). Studies on Biotechnological parameter in pineapple (*Annanas comosus* (L.) Merr.) Paper presented in International Conference on Biotechnology in Agriculture and Forestry held at Delhi. Pp. 80.
- N. Pradhan, A. Prasad and A. Mishra (1993). Studies on micro propagation in gladiolus. Paper presented in International Conference on Biotechnology in Agriculture and Forestry held at Delhi. Pp. 76.
- A. Prasad, B. Singh and A. Mishra (1993). Investigation on biochemical composition of Kagagilime (*Citrus aurantifolia* Swingle) Ibid, PP: 99.
- A. Mishra, P.D. Singh and S. Dwivedi (1994). Studies on coefficient of variation heritability and genetic advance in potato (*Solanum tuberosum* L.) Paper published in proceeding of Indian Science Congress held at Jaipur. Pp. :P 67.
- A. Prasad, A. Mishra and D.S. Yadav (1994). Studies on genetic heritability in egg plant (*Solanum melongena* L.) Paper presented in Indian Science Congress held at Haipur. PP: 15.
- A. Prasad, B.Singh and A. Mishra (1994). Genetic Parameters for yield and its components in (*Abelmoschus esculantus* L.) Published in Proceedings of Ind. Sci. Cong. Part IV held at Jaipur. PP: 161.
- A. Prasad, B.Singh, A. Mishra & H.B. Singh (1994). Estimates of heritability on yield in okra. Published in Proceedings of Ind. Sci. Cong. Part IV held at Jaipur PP: 164.

- S.K.S. Chauhan, A. Mishra, U.C. Tiwari and R.S. Katiyar (1994). Bio Chemical qualities of Ginger as affected by N, P and K nutrient application. Published in Proceedings of Ind. Sci. Cong. Part IV held at Jaipur pp: 198.
- N.P. Singh, Archana Tiwari and Richa Jaiswal (2001). Effect of salt stress on seed germination and yield attributes of chickpea cultivars. Paper presented in National Symposium on Pulse for suitable Agriculture and National Security held at Indian Agricultural Research Institute New Delhi on 17-19 April, 2001. pp.
- Archana Tiwari, P.D. Singh and M. Shukla (1997). Genotype environment interaction for qualitative parameters in potato. Paper presented in National Conference on Environmental Bio-pollution held at Kanpur pp: 68. 16-18 March
- Archana Tiwari and N.P. Singh (2000). In vitro regeneration and multiple shoot formation from embryonic axis in pigeonpea (*Cajanus cajan* L.) Paper presented in National Symposium on Emerging Trends in Agriculture Biochemistry Regulation of Metabolic Pathway for Crop Improvement held at Kanpur pp: 15.
- Archana Mishra and Archana Tiwari (2013). Influence of homoeopathic drugs on Animal Hair Invasion by keratinophilic fungi paper on National Conference on Microbar Promoting Crop Health Productivity & sustainability & zonal meeting Oct. 26-27-2013 held on NBRI Lucknow.
- Archana Tiwari & N.P. Singh (2005). Exploitation of tissue culture technology in improvement of pulses crops. Paper presented in National Seminar on new Horizons in Bioscience held at Kanpur pp: 84. 29-30th Nov. D.G. College, Kanpur.
- Archana Tiwari and Arun Kumar Singh (2006). Genetic variability in Potato. Paper presented in National Seminar on Innovation in Bioscience held at Kanpur pp: 54.
- Arun Kumar Singh and Archana Tiwari (2006). Association of characters for grain yield and its attributes in Barley (*Hordeum vulgare* L.) Paper presented in National Seminar on Innovation in Bioscience held at Kanpur pp: 54.
- Archana Tiwari, Arun Kumar Singh and Archana Singh (2007). Environment interaction against the growth parameter of Potato Paper presented in National Seminar on Combating pollution to create a healthier planet organized by Indian Sci. Congress Association Kanpur Chapter held at D.G. College, PP-157.

Rachana Singh, L. Singh and Archana Tiwari (2007). Studies on absorbing of heavy metals in cereals crops Ibid-PP-159.

Laxmi Singh, Rachana Singh and Archana Tiwari (2007). Correlation studies on yield contributing traits in Tomato Ibid-PP-159.

Archana Tiwari, Archana Agnihotri and Archana Mishra (2016). The Ganga River: Holy but not so pure. Paper presented in National Seminar in Ganga Pollution: Analysis & Remedies. 7th & 8th Oct. -2016 held D.A.V. College, Kanpur PP. 100

Archana Mishra, Archana Tiwari & Archana Agnihotri (2016). Sewage Pollution on the river Ganga: An ongoing case study in Kanpur, India. Ibid-pp. 99-100.

### **Book Chapters -2022**

Medicinal Properties of marigold in Healthcare. Published in Role of Medicinal Plant in Human Health pp. 155-163.

### **List of Articles in English**

1. A. Mishra and A. Prasad (1994). Flower export possibilities in India. Mandaly Shak Bhaj Fal Aur Pusp Pradershni Agra, PP: 47-48.
2. A. Mishra and A. Prasad (1994). Chryaan hemun: An important out flower. Ankur Published by North Bihar Horticulture Society Patna, PP. 15-18.

### **ORAL / PLANERY LECTURE/POSTER PRESENTATION**

- ❖ In *vitro* regeneration and multiple shoot formation from embryonic axis in Pigeonpea (*Cajanus Cajan L.*) oral presentation in National symposium on Emerging Pathway for crop improvement held at Kanpur. 2000.
- ❖ Exploitation of tissue culture technology in improvement of pulses crop poster presentation in National Seminar on New Hozones in Bioscience held at 29-30th Nov. D.G. College, Kanpur, 2005.
- ❖ Effect of growth regulator on biochemical compositions of acid lime paper presentation in National Seminar on Environmental degradation biodiversity problems & prospects sponsored by U.G.C. held at 29-30th Nov. at D.A.V. College, Kanpur, 2009.
- ❖ Ganga River: Holy but not so pure, paper presented in National Seminar in Ganga Pollution: Analysis & Remedies 7th & 8th Oct. 2016 held at D.A.V. College, Kanpur.
- ❖ Effect of salt stress on seed germination and yield attribute of chickpea cultivars paper presented in National Symposium on Pulses for sustainable agriculture and National Security held at IA|RI new Delhi 17-18 April 2001.

- ❖ Co-relation studies on growth and attributing components of potato (*Solanum tuberosum* L.) paper presented on National Seminar On Recent Trends in Biological Scenario held at 3rd Dec. 2009 on D.G. P.G. College, Kanpur.

#### **National/International Seminars/Conference**

- ❖ "Impact of present environment on biodiversity of Rural Area" by Shri Shakti Degree College Kanpur 21-22 Feb. 2015.
- ❖ Seminar and quiz on "Herbs for Health" Department of Botany S.N. Sen B.V. P.G. College Kanpur held on 2nd Dec. 2015.
- ❖ National Seminar "Biodiversity Conservation and sustainable development" held at D.A.V. College Kanpur January 20, 2016
- ❖ National Seminar on Role of Science and Technology with relevance of National Swachhata Abhiyaan Held at 29-30 March 2018 D.G.P.G. College, Kanpur.
- ❖ National Seminar on Future India: Science and Technology. The Indian Science Congress Association held at 23rd-25th Nov. 2018.
- ❖ National Seminar on Food Chemistry, Processed Food and Toxicology. Department of Chemistry D.A.V. (P.G.) College Kanpur held at 25th-26th September 2019.
- ❖ The Indian Science Congress Association Kanpur Chapter National Conference on "Science and Technology "Rural Development" 3-4 December 2019 in collaboration with C.S.J.M. University, Kanpur.
- ❖ National Seminar on Waste Management: Role of Chemistry, organized by Department of Chemistry D.A.V. College Kanpur held at 22nd -23rd January 2020.
- ❖ National workshop on Basic Techniques of Molecular Biology organized by Deptt. of Zoology D.B.S. College, Kanpur 4th & 5th August 2008.

#### **Workshop Attended**

- ❖ National workshop on bioinformatics: Tools and Their Application sponsored by Ministry of Science and Technology, Govt. of India held at D.G. College, Kanpur, 2011
- ❖ Northern Regional workshop on wetlands Biodiversity: Restoration and survival organized by Department of Botany D.B.S. College, Kanpur Sponsored by wetlands International and Forest and Wild Life Department, U.P. 17 Nov. 2017.
- ❖ National workshop on quantitative and qualitative analysis of Protein and Lipid organized by Department of Zoology, D.G. College Kanpur Star College Scheme of DBT, Ministry of Science and Technology Govt. of India held at 25th 31st Oct. 2017.



- ❖ Workshop on Biotechnology under DBT Start College Scheme for Strengthening of life Science and Biotechnology Education and Training Programme held at D.G. College Kanpur 20 to 26 April 2017.
- ❖ National workshop on Basic Techniques in Microbiology organized by Faculty of Science, D.G.P.G. College Kanpur under Star College Scheme of Department of Biotechnology Ministry of Sci. and Technology Govt. of India held at 11th to 17 Oct. 2018.
- ❖ XXth workshop on "Evaluation of Biology through Bioinformatics" at Bioinformatics Infrastructure Facility center DBT D.G. PG College Kanpur held at 19th to 25th Sept. 2019.
- ❖ Workshop on online Teaching and learning for college teachers organized by IQA CELL of D.G. (P.G.) College Kanpur 7-8 July 2020.
- ❖ Archana Mishra, Archana Tiwari (2022). Biodiversity and ecosystem function of Arbuscular mycorrhizal fungi. (IJSET). International journal of Innovative Science Engineering & Technology 09 (8): 194-212

**Online Courses by (agMOOCs) Organized by Indian Institute of Technology Kanpur:**

- ❖ Six week online course "Detection, Diagnosis and Management of Plant Diseases" held at 03 Dec. 2019.
- ❖ Six week online course "Conservation Agriculture - based sustainable Intensification" held at 31st March 2020.
- ❖ Six week online course "Diagnosis of Crop and Stored grain pest and their management" 31st March 2020.