



Dr. MINERVA GHANI
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Biotechnology,
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CONTACT INFORMATION

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Languages Known:

English & Hindi.

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Correspondence Address

Dr. Minerva Ghani, Assistant
Professor, Biotechnology
GDC Anantnag J & K

RESUME

OVERVIEW

- Doctorate in Plant Biotechnology (7.95 OCPA)
- Qualified ICAR-NET in Basic Plant Sciences
- Experience
 - Assistant Professor, Biotechnology, Department of Higher Education J & K w.e.f 14-02-2017 till date
 - Lecturer-ship (GDC for Women, Anantnag) academic session 2015-16
 - Research Associate (CSKHPKV, Palampur, HP)
- 14 research publications in International Journals and 1 abstract published in Plant and Animal Genome conference, San Diego, US.
- 1 Book Chapter, Springer Publishers
- Expertise acquired on micropropagation, molecular biotechnology and scientific writing.

Scholastics

PhD Plant Biotechnology (2012)

PhD in Plant Biotechnology from Dr. YS Parmar University of Horticulture and Forestry, Solan-H.P with 7.95/10 OGPA.

Thesis Title: *In vitro* mutations, selection and molecular markers based characterisation of *Gerbera jamesonii* Hook.

Master of Science in Biotechnology (2008)

M.Sc. in Plant Biotechnology from Dr. YS Parmar University of Horticulture & Forestry, Solan H.P with 8.05/10 OGPA.

Thesis Title: *In vitro* cell selection of Apple rootstock M7 against *Dematophora necatrix*

Summary of qualification

- B.Sc. (2005) from Govt. Post Graduated College, Chamba- Himachal Pradesh University with 72% marks.
- Intermediate (2002) from Govt. Boys Senior Secondary School Chamba-Himachal Pradesh Board of Secondary Education with 76.40%.
- Matric (2000) from DAV school, Chamba, HP with 73.40 % mark

Referees:

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Dr. Manju Modgil

Professor,
Department of Biotechnology,
Dr. YS Parmar University of
Horticulture and Forestry, Solan
HP

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Dr. SK Sharma

Retd. Professor,
Department of Biotechnology,
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Horticulture and Forestry, Solan
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Dr. Manisha Thakur

Assistant Professor,
Department of Biotechnology,
Dr. Yashwant Singh Parmar
University of Horticulture and
Forestry, Nauni, Solan,
Himachal Pradesh.
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Achievements

ICAR-NET (2010)

Qualified ICAR NET in the subject of Basic Plant Sciences.

Publications

Research Papers

1. Ayushi Kaul, Surinder Kumar, Manisha Thakur, **Minerva Ghani**. 2011. Gamma ray induced *in vitro* mutations in flower colour in *Dendranthema grandiflorum*. Global Science Books: Bioremediation, Biodiversity and Bioavailability. 5(1): 71-73.
2. Ayushi Kaul, Surinder Kumar, **Minerva Ghani**. 2011. *In vitro* mutagenesis and detection of variability among radio mutants of chrysanthemum using RAPD. Advances in Horticultural Research 25(2): 106-111.
3. Shweta Sen, Surinder Kumar, **Minerva Ghani**. 2011. *Agrobacterium* mediated genetic transformation of rice chitinase (*chi II*) for fungus resistance in chrysanthemum. Global Science Books: Floriculture and Ornamental Biotechnology. 5(1): 40-44.
4. **Ghani Minerva**, Kumar Surinder and Thakur Manisha. 2012. *In Vitro* Propagation and Assessment of Plant Genetic Fidelity by RAPD and SSR Markers in Gerbera (*Gerbera jamesonii*). Research Journal of Biotechnology, 7(4): 53-57.
5. M Modgil, N Guleria, **M Ghani**, JN Sharma. 2012. Identifying somaclonal variants of the apple rootstock Malling 7 resistant to white root rot. Scientia Horticulturae. 137:148-155
6. Anshu Sharma, Surinder Kumar, **Minerva Ghani**, Manisha Thakur, Harinder Raj. Development of mutant lines of oriental hybrid lily resistant to *Fusarium oxysporum* f. sp. *Lilii* Toxins. 2012. Plant Pathology Journal 11(2): 60-67
7. **Minerva Ghani**, Surinder Kumar Sharma, Manisha Thakur. Induction of novel variants through physical and chemical mutagenesis in Barbeton daisy (*Gerbera jamesonii* Hook.). 2013. Journal of horticultural Science and Biotechnology 88(5): 585-590.
8. Shweta Sen, Surinder Kumar, **Minerva Ghani** and Manisha Thakur. *Agrobacterium* mediated genetic transformation of Chrysanthemum (*Dendranthema grandiflorum* Tzelev) with rice chitinase gene for improved resistance against *Septoria obesa*. 2013. Plant Pathology Journal 12(1): 1-10.
9. **Minerva Ghani**, Surinder Kumar Sharma, Manisha Thakur. Physiological and biochemical responses of gerbera (*Gerbera jamesonii* Hook.) to physical and chemical mutagenesis. 2014. Journal of horticultural Science and Biotechnology 89(3): 301-306.
10. Vikas Sharma, Maneet Rana, Megha Katoch, Pawan Kumar Sharma, **Minerva Ghani**, Jai Chand Rana, Tilak Raj Sharma, Rakesh Kumar Chahota. 2015. Development of SSR and ILP markers in horsegram (*Macrotyloma uniflorum*), their characterization, cross-transferability and relevance for mapping. Molecular Breeding 35:102.
11. Surinder Kumar, Rajni Kumari, Tripti Baheti, Manisha Thakur and **Minerva Ghani**. 2016. Plant regeneration from axillary bud, callus and somatic embryo in carnation (*Dianthus caryophyllus*) and assessment of genetic fidelity using RAPD-PCR Analysis. *Indian Journal of Agricultural Sciences* 86 (11): 1482-88.
12. Rakesh Kumar Chahota, Vikas Sharma, **Minerva Ghani**, Jai Chand Rana, Shyam Kumar Sharma, Tilak Raj Sharma. Genetic and phyto chemical diversity in Bunium persicum populations of north western Himalayas. *Physiology and Molecular Biology of Plants*. 2017
DOI 10.1007/s12298-017-0428-9
13. Rakesh Kumar Chahota, Vikas Sharma, **Minerva Ghani**, Jai Chand Rana, Shyam Kumar Sharma, Tilak Raj Sharma. Genetic and phyto chemical diversity in Bunium persicum populations of north western Himalayas. *Physiology and Molecular Biology of Plants*. 2017.
14. 1. A Kaul, S Kumar, **M Ghani**. *In vitro* mutagenesis and detectiobn of variability amongf radiomutants of Chrysanthemum using RAPD. *Advances in Horticultural Science*. 2011. 106-111

Book Chapter

1. **M Ghani**, Kumar S. Micropropagation of *Gerbera jamesonii* Bolus (Book Chapter). Micropropagation of some commercially important Horticultural crops. Springer.305-316.

Abstract

1. Vikas Sharma, **Minerva Ghani**, Bhawna Verma, Rakesh Kumar Chahota and Tilak Raj Sharma. Assessment of genetic diversity in *Macrotyloma uniflorum*-a potential pulse crop of future (Abstract). 2013. Plant and Animal Genome Conference. Jan 12-16, San Diego.

Awards and Honours

- Certificate of Honour, MSc.
- University topper chemistry, BSc.
- 45th rank in state in intermediate.

Expertise

- Tissue Culture, Micropropagation
- Molecular Markers
- Enzymology
- Scientific writing
- Data analysis

CONFERENCES, WORKSHOPS, SEMINARS ATTENDED

Conferences:

1. Two days National Interdisciplinary Conference on “Science in Development”, Sri Pratap College, Srinagar (3, 4th Dec, 2018)
2. National symposium on emerging issues in plant health management and annual meeting IPS (NZ), University of Horticulture and Forestry, Nauni-Solan.

Seminars:

1. One day National webinar on “NEP 2020-The paradigm of education” organized by IQAC vimala college, Thrisuru, Kerela on 25-08-2020.
2. 'Mikhail Bakhtin Arrives in Kashmir- A Valley with a Rich History of Confluence of Ideas' iqac womens college on 26 July, 2020
3. One day webinar on “Role of data science in Agriculture” on 24th August, 2020. IQAC Amar Singh College, Srinagar, J & K.
4. Two Days International Webinar on “Revisiting Human Rights, Ethics and Environment During Covid 19” on 6th-7th August, 2020 organized by Ramanujan College Delhi, Sponsored By MHRD.
5. Webinar “Artificial Intelligence beyond Mind’s eye” 19th June, Department of Biotechnology, UIET, KUK.
6. One day webinar on ‘Future of Education’ by ICT Academy, 18-06-2020.
7. Poster presentation at National Seminar on Plant Biotechnology, HAU-Hisar
8. Poster presentation at National symposium on emerging issues in plant health management and annual meeting IPS (NZ), University of Horticulture and Forestry Nauni-Solan.

FACULTY DEVELOPMENT PROGRAMMES ATTENDED

1. Four Weeks 70th General orientation Programme, HRDC, University of Kashmir w.e.f 25-06-2018 to 24-07-2018.
2. Two weeks FDP on “Managing online classes and co-creating MOOCs’ w.e.f 20-4-2020 to 06-05-2020.
3. Two weeks FDP on “Advanced Concepts for Developing MOOCs” w.e.f 1-16 July, 2020.
4. Two weeks National FDP on “Earth and Environmental Science” from 21-09-2020 to 03-10-2020.
5. Two weeks refresher course on “Research Methodology” by Ramanujan College and MHRD, from 1-15th, Oct 2020.
6. Two week interdisciplinary refresher course in learning outcomes and educational reforms-pedagogy, assessment and quality assurance from 18 Nov to 20 Dec 2020, from HRDC-Aligarh muslim university.

Workshops

1. One week e-workshop on “Leveraging education for harnessing Entrepreneurship, Research and Innovation” organized by Higher Education Department of J & K in association with Grass Root Innovation and augmentation network, from 7 to 12, sept, 2020.
2. Two days workshop on “Advances in cell and Molecular Biology” 27-28th September, 2017, Cluster University Srinagar.
3. Two weeks workshop on “ comprehensive e-learning to e-training guide for Administrative Work’ From 25-05-2020 to 05-06-2020.
4. Two weeks “Science Leadership Workshop” organized by Central University Bhatinda from June 22 to June 28th, 2020.
5. Four Days National Online Yoga Workshop 18th to 21st June, 2020, Organised by Islamic College of Science and Commerce Srinagar Kashmir.
6. One week International e-Workshop on Language Translation Skills organized by Higher Education department in collaboration with National Translation Mission 8th Aug-12th Aug, 2020.
7. Online National Mini Workshop cum webinar on E content development on 16th August 2020, Organised by GGM Science College, Cluster university Jammu.

MOCK PG Entrance examinations.

Conducted on Mock PG entrance examinations for PG aspirants of all the college in valley on General aptitude, Microbiology, Plant and Animal Biotechnology, Final overall exam.

Events Organised

1. Events Organised

Organised webinar on them “Strong Immunity and Positive Mental Health- two sides of same coin” on 19-08-2020.

Date : 25-02-2021

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Deptt. of Biotechnology
GDC Anantnag**

Place: Anantnag, J & K