

Curriculum Vitae

Dr. Kshma Swarnkar

W/O. Mr. Aditya Soni
C-29, Brahma Apartment,
Near Ramphal Chowk,
Sector – 7, Plot – 7, Dwarka
New Delhi – 110075



Personal details: -

Husband's name: -Mr. Aditya Soni

Date of birth: Aug.11, 1983

Citizenship: Indian

Sex: Female

Marital status: Married

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Education Personal:-

Perusing PGCP (Post Graduate Certificate Program me in teaching)

Manipal University (Online Course)

Ph.D in Faculty of Life Science

Sarguja University, Bilaspur (C.G)

M.Phil in Biotechnology (2007-2008)

Vinayaka Mission University, Salem (Kerla)

M.Sc.: Biotechnology; 2005-2007

School of Biotechnology,
G.G.D. University Bilaspur (C.G.), India

B.Sc.: [Bot. Zoo. & Chem.]; 2003-2005

Govt. Girls, College, G.G.D. University, Bilaspur (C.G.) India.

M.Sc. Research Work:-

As a trainee at: -

National Phytotron Facility and Division of Genetics, Indian Agricultural Research Institute, New Delhi, India, **February to June 2007.**

Project: -

“Identification and validation of molecular marker linked to a white rust resistance gene in Mustard”

The productivity of the oilseed brassica species, the second most important edible oilseed crop in India, is adversely affected by several fungal diseases, white rust being one of the them. White rust caused by *Albugo candida* may cause 17–34% yield losses which may enhance upto 60% under environmental conditions favourable to disease infestation. While most of the cultivated species of brassicas are susceptible to this fungal disease, some sources of white rust resistance have been reported in widely related species. Apart from conventional methods of selection and hybridization, several *in vitro* techniques have been used to utilize these genes for incorporating resistance/tolerance in the cultivated varieties. The article presents a comprehensive status of Indian cultivated brassicas vis-avis white rust resistance, and the use of biotechnological tools such as embryo rescue, somatic hybridization, somaclonal variation and molecular techniques for incorporation of disease resistance.

Technical skills :-

1. DNA extraction from plant systems
2. Polymerase chain reaction (PCR)
3. Agarose gel electrophoresis
4. DNA fingerprinting techniques (RAPD and Microsatellites)
5. Marker-assisted selection (MAS)
6. RT-PCR

7. DNA fingerprinting techniques (RAPD and microsatellites)
8. Cloning and transformation of bacterial cells
9. SDS-PAGE,
10. Marker-assisted selection (MAS)

Posters presented in symposium/conferences: -

1. Kshma Swarnkar, Khushbu Verma and Harit Jha (2006). **Antibacterial and antifungal activity of latex of *Calotropis procera***. Presented in National “Seminar on Emerging horizons of Biotechnology” December 11-13, 2006, At **Guru Ghasidas University, Bilaspur (C.G.)**.
2. Attended symposium on 25th July 2006 at Department of Biochemistry **Pt. J.N Medical College, Raipur (C.G)**. Title of symposium: - **Biotechnology in Future Medicine**.
3. Presented Poster on **Toxicity of leaf inhabiting bacteria** at **Department of Botany, CMD PG College, Bilaspur (C.G)**.
4. Attended National Seminar on 28-29 January 2008 on “**TEFBP: Vision 2020**” at School of Biotechnology at **Guru Ghasidas University, Bilaspur (C.G)**
5. Attended National Seminar on 30 March 2006 on **Recent Trends in Biomedical Science** at School of Biotechnology at **Guru Ghasidas University, Bilaspur (C.G)**
6. Attended Work shop on “**Hands on DNA Technologies**” from 8th – 11th January 2013 at **Govt. Nagarjuna P.G. College of Science, Raipur (C.G)**
7. Presented an oral presentation on “**Effect of Agro-chemical on agriculture fields**” on 1st Feb. 2013 at **Govt. E. R. R. P. G. Science College, Bilaspur (C. G.)**

Published Research Papers: -

1. **D. K Shrivastava, Kshma Swarnkar and T. P. Chandra (2012)**. Fungi – Toxic Properties of Leaf Extracts of some Herbaceous wild Plants. **International Journal of Science and Research (IJSR)ISSN (Online):2319 – 7064 Impact Factor (2012): 3.358**.
2. **D. K Shrivastava and Kshma Swarnkar (2014)**. Antifungal Activity of Leaf extract of Neem (*Azadirachta Indica*Linn). **International Journal of Current Microbiology and Applied Sciences, ISSN :2319 – 7706**.

- 3. D. K Shrivastava, Kshma Swarnkar and Archana Shrivastava (2012).**
Comparative study of Antibacterial properties of solvent Extracts of Some
spices Plants against common Pathogenic Bacteria. **Proceedings of National
Seminar: Research Papers**

Extras:-

NCC 'C' certificate with B grading.

1. Currently working with many tutoring company as educational facilitators,
Motivational entrepreneur and Co- Ordinator.
2. Having 6 years of experience in online tutoring in Infocom Learning
solution, Australia.
3. Having teaching experience of 5 years as commissioned NCC officer in
The Jain International School, Bilaspur.
4. Having teaching experience of 6 months in St. Xavier School, Bharni
Bilaspur as PGT Teacher.
5. Having experience in coaching institute for teaching in medical and Engg.
Students.

Declaration

I hereby declare that all the above information is correct.

Date 4th February 2021

(Dr. Mrs. Kshma Swarnkar.)

