

Dr. SHALINI YADAV (MSc, PhD Biotechnology)

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Career Objective:

I want to succeed in an environment of growth and excellence and earn a job which provides me job satisfaction, self-development and help me achieve personal as well as organizational goals.

Education:

Name of the institute	Degree or Courses	Year
Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan, Mathura	PhD Biotechnology	2019
Dr. B. R. A. University, Agra (UP)	M.Sc. Botany	2015
Dr. B. R. A. University, Agra (UP)	B.Sc. Biotechnology	2013

PhD thesis: "Development of Sodium Polyacrylate Nanoparticle based combined Mastitis Vaccine and Assessment of its efficacy in mice model."

Patent Granted: "Nano particles-based polymer gel combined mastitis vaccine" as disclosed in the above-mentioned application for the term of 20 years from the Date: 18/03/2019 in accordance with the provisions of the patents Act,1970. (Application No:201911010384)

Work Experience

As **Principal Scientist** at Abha Biotechnology Pvt. Ltd June 2019 to April 2021.

- Organised biotech and pharma trainings & Skill development program (short term trainings, projects/ dissertation, job training programs)
- Guided UG & PG students different universities and colleges (Amity university, HIMT College, Sunder deep college, Noida International University) for their research projects.
- Conducted various online training courses on Bioinformatics tool-BLAST, FLAST, CLUSTAL W, primer designing, Docking, fermentation technology, industrial microbiology, molecular biology, plant tissue culture, hydroponics etc.
- Organised workshops- on INDUSTRIAL FERMENTER, Cultural, Morphological, Biochemical and Molecular characterization of cultures (like staphylococcus aureus & E. coli), on different techniques used for DNA Extraction & PCR, Gel electrophoresis, Autoclave, Laminar air flow, spectrophotometer etc.
- Facilitated sales and marketing and regulatory affairs like preparation of document dossier food and nutraceuticals, FSSAI Guidelines, draft quality document preparation, third party audit, Document of company specific guidelines.
- Research assignment -Isolation, Identification and Characterization of phosphate solubilizing bacteria (PSB) phosphate rich organic manure (PROM) biofertilizer.
- Developed hydroponics plant setup by using Micronutrients and Macronutrients murashige & skoog medium.
- Gained experience in performing techniques of plant tissue culture like (Buffers & Media Preparation, Micronutrients and Macronutrients, technique for inoculation of explants under aseptic condition, scope and application)

- Supervised testing services (Microbiological testing, Water testing, Food testing, Pharmacological testing)

Workshops and Hands on trainings

- Certificate Course on Computational Approaches to the Drug Design and Development (**CADD**) conducted at CSIR-Central Drug Research Institute, Lucknow.
- **DBT sponsored Training cum workshop on bioinformatics tools and techniques in agriculture** organised by bioinformatics infrastructure facility Sardar Vallabhbhai Patel University of agriculture and technology, Meerut.
- **Certificate Course on Care, Management of Laboratory Animals & Experimental Techniques** conducted at CSIR-Central Drug Research Institute, Lucknow.

Awards & Achievements:

- **Young scientist award:** International conference on Global research initiatives for sustainable agriculture & Allied sciences organized at ICAR.
- **Scientist Associate Award:** International conference on GRISAAS organized at Rajasthan Agriculture Research Institute, Jaipur during 28-30th Oct., 2018.
- **National good laboratory practice (GLP)** compliance monitoring authority (NGCMA) department of science and technology Government of India.
- **Six weeks training certificate course on skill development** in care, management of laboratory animals and experimental techniques. CSIR-CDRI Lucknow
- **Best poster presentation awards: 03**

Journal publications:

- **Shalini Yadav**, Amit Kumar^{1*}, S. K. Yadav, V. K. Singh, A. K. Verma², K. Gururaj³ and Anu Rahal³, Formulation of Nanoparticle Polymer Gel Based Bivalent Mastitis Vaccine and Its Safety Studies in Mice Mastitis Model, Vol. VIII, Special Issue, Rkvy Nov-2018 **Seminar NDUAT AYODHYA MULTILOGIC IN SCIENCE ISSN 2277-7601**. An International Refereed, Peer Reviewed & Indexed Quarterly Journal in Science, Agriculture & Engineering Pg. 262-264.
- **S Yadav**, A Kumar*, S k Yadav, V k Singh and A Rahal. Interplay of Oxidative Stress and Antioxidant system in Mice Mastitis Model. An International Refereed, Peer Reviewed & Indexed Quarterly Journal in science, Agriculture & Engineering. **Seminar On Steps Anduat AYODHYA MULTILOGIC** in SCIENCE, Vol. VIII, Special Issue, National ISSN 2277- 7601, Pg. 247-252.
- **Yadav S**, Kumar V, Sharma M, Pramathesh Mishra N, Khan W, International Journal of Multidisciplinary Sciences and Advanced Technology, "An Overview of Analysis On the Pandemic Factors of Covid-19", Volume.1, Special Issue, 2020, Page No-55-56.
- Yadav, S., Kumar, A., Yadav, S.K., Singh, V.K., Verma, A.K., Gururaj, K. and Rahal, A. (2018); Formulation of nanoparticle polymer gel based bivalent mastitis vaccine and its safety studies in micemastitis model. *Multi logic in Science*.

Abstracts Published / Presented:

- **Yadav, S.**, Kumar, A., Yadav, S.K., Singh, V.K., Gururaj, K. and Rahal, A. (2018) Assessment of erythrocyte oxidative stress induced by combined Nano particle-based polymer gel mastitis vaccine in lactating female inbred albino mice. Int. Conf. on Goats ARCG-2018 held at Amity. Uni. Raj. Jaipur during 22-26 oct. 2018. pp48-49.

- **Yadav, S.,** Kumar, A., Singh, V.K., Yadav, S.K., Gururaj, K. and Rahal, A. (2018); Evaluation of newly formulated oil adjuvant combined mastitis vaccine in mice model. Int. Conf. on Goats ARCG-2018 held at Amity. Uni. Raj. Jaipur during 22-26 oct.2018.pp48-49.
- **Yadav, S.,** Sharma, P., Jayshree, V.K., Kumar, A., Yadav, SK., (2017). Development of polymer gel based polyvalent mastitis vaccine. National Conf. of ISSGPU held at ICAR- CIRG, Makhdoom during 9-10. Nov.
- **Yadav, S.,** Prajapati, S., Sharma, L. Kushwaha, B. Sharma, P., Singh, R., Jayshree. Singh, V.K. Yadav, S.K. (2015). Phenotypic and nuc gene based detection of *Staphylococcus aureus* pus samples of animal origin. National Conf. on GRISASS held at Agri. Res. Ins. Gwalior during 12-13 Dec.

Conference & Seminars:

- National conference on Global Research Initiatives for Sustainable Agriculture & Allied during December 2015 at (RVSKVV) University, Gwalior.
- Participated in Workshop on Biotechnology Awareness organized by College of Biotechnology DUVASU, Mathura.
- Attended 17th Indian Veterinary Congress on- New Generation Vaccines, Diagnostics for Improvement of Animal Health & Productivity VIS-À-VIS Genomic Interventions for The Societal Benefit during April, 2017

Laboratory skills:

- Preparation of different growth media and sterilization of glassware & culture media.
- Preservation and maintenance of microbial cultures.
- Different staining techniques.
- Measurement of growth of microorganism and factors influencing growth.
- Antibiotic sensitivity test.
- DNA isolation from bacteria, tissues and blood
- RNA isolation from tissue and bacteria
- dot- ELISA
- Immunological techniques (Gel diffusion, precipitation, agglutination)
- Antibacterial test

Instrumental Skills

- Autoclave, PCR, RT-PCR, Centrifuge, Oven, Laminar Air Flow (LAF), Incubator, Water Bath, Magnetic Stirrer, Spectrophotometer, ELISA reader, Electrophoresis, Fermenter.

Annexure:

- Kumar, A., Singh, V.K., **Yadav, S.,** Verma, A. K., Rahal, A. and Yadav, S.K. (2018). Histopathological based assessment of formalized killed combined oil adjuvant mastitis vaccine in mice mastitis model. Int. Conf. on GRISAAS held at Raj. Agri. Res. Ins. (RARI), Jaipur during 28-30 Oct.2018. pp 276.
- Kushwaha, B., Sharma, L., **Yadav, S.,** Sharma, P., Prajapati, S., Singh, R., Jayshree. Singh, V. K. Yadav, S. K. (2015). Emergence of multidrug resistance coagulase negative staphylococci in bovine mastitis. National Conf. on GRISASS held at Agri. Res. Ins. Gwalior during 12-13 Dec.
- Sharma, P., **Yadav, S.,** Prajapati, S., Kushwaha, B. Jayshree, Singh. K. Yadav, S.K. (2015)
- Antibiogram and I gene-based characterization of methicillin resistant *Staphylococcus aureus*

(MRSA) in animals. National Conf. on GRISASS held at Agri. Res. Ins. Gwalior on 12-13 Dec.

- Pramathesh Mishra N, Ranjan Mohanty A, Badajena A, **Yadav S**, Science, Technology & Development Multidisciplinary Journal, "Standardisation of *Semecarpus Anacardium* Using TLC Techniques". Volume IX, Issue IV, 2020, Page No-201-213.
- N T Pramathesh Mishra, **Shalini Yadav**, Sandeep Chaudhary, and Wasim Khan, Role of Research scholars in the fighting against covid 19: the deadly virus, Research and review journal of medicine, 10(2), page no 37-44, 2020

Personal Details

Father's Name- Girish Chandra Yadav

DOB- 15th DEC'1993

Marital Status- Married

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(Dr. **Shalini Yadav**)