

Curriculum Vitae

Mamta Shukla

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Objective

- ❖ An Entry-level position in the organization with potential for growth and learning and should be able to contribute to the organization's mission wherein I could utilize my educational skills.
- ❖ I am keenly desirous to use my all theoretical as well as practical knowledge as a driving resource for the social welfare in a positive and progressive manner. My ultimate goal of professional life is to serve the society through my contribution in teaching and improving lives of common people through science & technology interventions.

Professional Qualification

- **Ph. D. (Biochemistry)** : Awarded on the topic "*Studies on antioxidant and hepatoprotective properties of selected fruits*", 2012 by **Dr. RML Awadh University, Faizabad, UP, India- 224001** (according UGC regulation act 2009).

Academic Qualification

- PG (M.Sc. (Biochemistry)) : From **CSJMU Kanpur**, 2000 with Ist Division.
- UG (B.Sc. (Biology stream)) : From **CSJMU Kanpur**, 1998 with Ist Division.
- Intermediate : U P Board, Allahabad, UP, India, 1995.
- Highschool : U P Board, Allahabad, UP, India, 1993.

Technical Skills

Computer Knowledge:

- Well known to the basic knowledge of computer used in analytical as well as scientific purpose in lab research.

Practical techniques known in applied biology:

- Electrophoresis : PAGE and Agarose gel.
- Chromatography : TLC and Paper.
- Blotting : Western and Southern blot.
- Centrifugation : Density gradient, Angle headed, Ultracentrifugation.
- Culture techniques : Plant Embryo culture, culturing of microbes from different sources, isolation and culture of primary rat hepatocytes.
- Isolation techniques : DNA isolation from leaves by kit method, organelle separation by density gradient centrifugation method, Isolation of primary hepatocytes from wistar rats.
- Clinical tests : ABO blood grouping, Widal test, VDRL test, TLC, DLC, HIV and HCV diagnosis by ELISA kit method and some immuno techniques.

Area of Interest

- Use of knowledge of Nutraceuticals for the upgradation of nutritive value to enhance the possibilities of finding the solutions related to the global health issues.

Work Experience

- Working as an **Associate Professor**, Department of Biotechnology, Faculty of Engineering and technology, Khwaja Moinuddin Chishti Language University, Lucknow since 28th August, 2021.
- Also working as a warden of girls hostel in the KMCL University since September 2021.
- Worked as an Assistant Professor, **Department of Industrial Microbiology, D. B. P. G. College, Bachhrawan, Raebareli** since 23rd Aug, 2012 to 27th August, 2021 and taught UG students.
- Also worked as a guest faculty in department of Microbiology, Dr. Shakuntala Misra National Rehabilitation University, Lucknow in 2018 session, PG students.
- After post graduation, I served as lecturer at D. G. College, Kanpur since July 1st 2003 to June 30, 2005 and taught Biochemistry, Biotechnology and Microbiology to UG and PG students.
- Total work experience of teaching is more than **12 years** including the subjects; **Microbiology, Biotechnology and Biochemistry (UG and PG).**

Awards

- **Young Scientist** award-2018 in an international conference on “**Emerging issues in Agricultural, Environmental & applied Sciences for Sustainable Development (EIAEASSD-2018)**” organized on 27-29 November, 2018 in SHUATS, Prayagraj by AEDS Society.
- **Best oral presentation award-2018** on topic “**Agro-industrial waste as source of nutraceuticals and health promoting molecules**” in an international conference on “**Emerging issues in Agricultural, Environmental & applied Sciences for Sustainable Development (EIAEASSD-2018)**” organized by AEDS Society on 27-29 November, 2018 in SHUATS, Prayagraj.

Academic and Extra curricular activities

- Member of different NGO as motivational speaker and societies in their scientific activities.
- **Co- chair person** of a technical session in an international conference on “**Emerging issues in Agricultural, Environmental & applied Sciences for Sustainable Development (EIAEASSD-2018)**” organized by AEDS Society on 29 November, 2018 in SHUATS, Prayagraj.
- Organized an Intraclass RBPT based seminar competition in D B P G College on 15th December, 2017.
- Organized educational visit for UG students of Department of Industrial Microbiology, D B P G College for Science city and CSIR-CDRI labs on 22 February, 2018.
- Attended **RBPT based STEM teachers training workshop LEVEL-1** jointly organized by **IISER** and Sacred Heart College in Kochi, Kerala on 11-14th October, 2017.
- **Co- chair person** of a technical session in a national seminar organized by S D College of Engineering Muzaffarnagar on 9th September 2017.
- Attended a faculty development program for entrepreneurship organized by CTED and sponsored by DST (15 day program) in FG College, Raebareli, UP, India.

- Attended a seven day workshop organized by Biotech park in lucknow on molecular techniques from 25th April – 1st May, 2016.
- **Co- Organizer** of a one day workshop jointly organized by Aakar Biotech pvt. Ltd and Biotech park in Lucknow on 10th May, 2016
- **Organized a national seminar** in Department of Industrial Microbiology, D.B.P.G. College, Bachhrawan, Raebareli in October 15th, 2015.
- **Member of organizing committee** of a seminar organized in the Department of Botany, D. B. P. G. College, Bachhrawan, Raebareli in November, 2013.
- Organized the **educational Lab visits** (CDRI, ITRC, Lucknow and PARAG DAIRY, Kanpur) in the year 2003- 2005 with my students of D.G. College..
- Organized a college seminar on CANCER with my colleagues and the doctors of RATAN CANCER HOSPITAL in the D. G. College in 2004.

PUBLICATIONS

- ❖ Parth Dhila, Mamta Shukla, Sukant Khurana, Abhijit G. Banerjee 2021. Multiple pharmacological properties and uses of an edible herb-*Cassia tora*. *Food Therapy and Health care*. **3(4):**106-114.
- ❖ Dubey R. K., B. Priyanka, Shukla Mamta and Singh RL 2019. Biotechnological studies on bio-chemical and antioxidant properties of Bengal Currant (*Carrissa carandus*). *Research Journal of Biotechnology*. **14(12):**130-134.
- ❖ O. Arogundade, U. Owoade, A. Mustapha, M. Ikotun, Mamta Shukla 2019. Design and implementation of mobile application for herbal medicine prescription for obstetrics and gynecology problems. *Convenant J Inf Comm Tech*. **7(2):**2354-3566.
- ❖ Mamta Shukla and R L Singh 2018. A full length paper on “Agro-industrial waste as source of nutraceuticals and health promoting molecules” in proceeding of an international conference on “ Emerging issues in agricultural, environmental & applied sciences for sustainable development (EIAEASSD-2018) organized by AEDS society on 27-29 November, 2018 in SHUATS, Prayagraj. ISBN no:978-93-88237-24-6; **283-289**.
- ❖ Upma sing, **Mamta Shukla**, Pankaj Singh, Poonam kakkar & R. L.Singh 2017. Role of Vicia faba fruit extract against cytotoxicity induced by acetaminophen in primary cultured rat hepatocytes. *Int J Pharm & Pharm Sci*. **8(8):**71-78.
- ❖ SP Vishwakarma, Pankaj Singh, **Mamta Shukla**, Upma Singh, RL Singh 2013. Antioxidant activity of some tuberous plant leaves. *Int J Pharmaceut Sci Rev Res*. **20(1):**28-33.
- ❖ P Singh, S P Singh, U Singh, **M Shukla**, R Singh, R k Singh, R B Singh, Douglas W Wilson and R L Singh 2012. Quantification and evaluation of Antioxidant

- activity of some bioactive phytochemicals in different medicinal plants. *The Open Nutraceut J.* **5**:179-186.
- ❖ **Mamta Shukla**, Shiv V Singh, Pankaj Singh , Upma Singh , SP Vishwakarma , Ashok K Khanna , JK Saxena , RL Singh 2011. Antidyslipidemic and antioxidant activity of hydroethanolic fruit extract of *Ficus glomerata*. *Asi J Pharmaceut Res.* **4(2)**:145-148.
 - ❖ P Singh, U Singh, **M Shukla** and RL Singh 2010. Variation of some phytochemicals in Methi and Saunf plant at different stages of development. *J Herb Med Toxicol.* **4(2)**:93-99.
 - ❖ **Mamta Shukla**, Upma Singh, Pankaj Singh and RL Singh 2009. Nutraceutical properties of agrowaste part of some citrus plants. *J Ecophysiol Occup Hlth.* **9(2009)**:97-103.
 - ❖ Pankaj Singh, Upma Singh, **Mamta Shukla**, Poonam Kakkar and RL Singh 2008. Antioxidant activity imparting biomolecules in *Cassia fistula*. *Adv Life Sci.* **2(1&2)**:23-28.
 - ❖ Upma Singh, Pankaj Singh, **Mamta shukla**, Poonam Kakkar and RL Singh 2008. Antioxidant activities of vegetables belonging to papilionaceae family. *Adv Life Sci.* **2(1&2)**:31-36.

News, Abstracts & Poster presentations in Conferences and Symposiums

- ❖ Presented a paper (oral) in an UGC sponsored National seminar on “Biotechnological interventions in agriculture, health and industry” held at DDU Gorakhpur University on 23rd to 24th February 2019
- ❖ Presented a poster and Participated as a delegate in “**Stem teacher training workshop on research based pedagogical tools**” held from 11th October -14th October, 2017 at Sacred Heart College, kochi, Kerala jointly organized by DBT and IISER.
- ❖ Presented a paper (oral) in an International conference on Emerging issues in agricultural, environmental & applied sciences for sustainable development held at SHUATS, Prayagraj, on 27th to 29th November 2018.
- ❖ Presented a paper as an invited speaker in a” National seminar on Bioenergy and waste management strategies and solutions” organized by S d College of engineering & technology, Muzaffarnagar, UP on 9th September 2017.

- ❖ Presented a paper as a speaker in national conference on “Underutilized plants, food security & climate link,” held in DDU Gorakhpur on 20-21st January, 2017.
- ❖ Attended short term training of one week workshop on basic molecular techniques held from 25th April to 1st May 2016, jointly organized by Biotech Park and Aakar biotech Pvt. Ltd.
- ❖ Presented a paper (oral) in a national conference on Biotechnological developments and societal benefits: present status and future prospects organized by SKY institute on 8th to 9th April, 2015.
- ❖ Presented a poster in an “International conference on Environmental technology and sustainable development: challenges & remedies” held in 21st to 23rd February 2014 and organized by BBAU, lucknow.
- ❖ Participated as a delegate in “6th Science Conclave 2013” held in December 8 to 14th 2013, organized by IIIT, Allahabad.
- ❖ Presented a poster in a symposium on Recent advances in biochemistry and biotechnology: Applications in health, environment and agriculture held at Lucknow university during 29th to 31st October, 2013.
- ❖ Presented a poster in an international conference on “Advances in free radicals, redox signaling and transnational antioxidant research & XII annual meeting of SFRR”, organized by CSIR-IITR during 30th January to 1st February 2013.
- ❖ Presented a poster in an International symposium of STOX-2012 held in Jaipur during 5th December to 7th December 2012.
- ❖ **Mamta Shukla**, Pankaj Singh, Upma Singh, P Vishwakarma and RL Singh 2011. Effect of drying at two different temperatures on total phenolic content and antioxidant status of *Trapa natans* fruit. *XXXI STOX December, 2011: International symposium on current trends in environmental toxicology*. 211.
- ❖ Pankaj Singh, SP Vishwakarma, Upma Singh, **Mamta Shukla** and RL Singh 2011. Evaluation of antioxidant and DNA damage protective activity of Methi plant during development. *XXXI STOX December, 2011: International symposium on current trends in environmental toxicology*. 188.
- ❖ Pankaj Singh, SP Vishwakarma, Upma Singh, **Mamta shukla**, RL Singh 2011. Quantification and antioxidant activity of some bioactive phytochemicals in different medicinal plants. *National Conference on “Interface of Science and*

- Environment: Emerging Public Health Challenges organized by Calcutta School of Tropical Medicine & All India Institute of Hygiene and Public Health.*
- ❖ SP Vishwakarma, Pankaj Singh, Richa Agarwal, Upma Singh, **Mamta Shukla** and RL Singh 2011. Evaluation of antioxidant activities of some selected vegetables leaf extracts. *XXXI STOX December, 2011: International symposium on current trends in environmental toxicology.* 186.
 - ❖ **Mamta Shukla**, Shiv V Singh, P kakkar, JK Saxena and RL Singh 2011. *In vitro* DNA damage and hepatoprotective activity of hydroethanolic extracts of *Ficus glomerata* fruit. *15th International conference, February, 2011 on: Bridging gaps in discovery and development: Chemical & biological Sciences for affordable health, wellness & sustainability.* 362.
 - ❖ Pankaj Singh, Upma Singh, **Mamta Shukla**, SP Vishwakarma, A Agrawal, RL Singh 2010. Variation of antioxidant potential in Methi and Saunf plants at different stage of development. *Society of Toxicology, India.*
 - ❖ Pankaj Singh, Shri Prakash Vishwakarma, **Mamta Shukla** 2009. News in Life Sciences. *Advances in Life Sciences.* **3(1-4):**3-8.
 - ❖ BN Singh, Upma Singh **Mamta Shukla**, RL Singh and Dhan Prakash 2009. Antioxidant potential and oxidativen DNA damage protective activity of *Moringa olifera*. International conference on: Advances in free radical research, 8th annual meeting of the society for free radical research (*SFRR*), *India.* XX.
 - ❖ Presented a poster in a “National symposium on Issues and challenges for environmental Management: vision 2025” held between 17th February to 19th February 2006 in BBAU, Lucknow campus.
 - ❖ Attended 89th Indian science congress as a delegate held in lucknow university in 3rd January to 7th January 2002.

PATENT

METHOD AND SYSTEM FOR AUTOMATICALLY IDENTIFYING A BLOOD DONOR IN VICINITY OF A PATIENT (Application No – 202121053094) published on 03/12/2021.

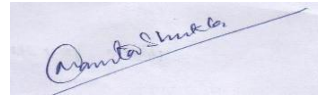
One more applied for patent publication.

Personal Attributes & Hobbies

- Confident, Creative with strong will Power.
- Ability to work as an individual and as a team member.
- Books, Movies, Music, Creative work & writing.

Personal Details

Father's Name : Mr. Amar Nath Tiwari
Mother's Name : Mrs. Shanti Tiwari
Husband's Name : Dr. Amar Shukla
Date of Birth : Feb 15th, 1980.
Nationality : Indian
Status : Married
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Language Known : Hindi and English



(MAMTA SHUKLA)