Dr. Kashish Gupta
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Gaur City 2,
Greater Noida-201009
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Career Summary:

Research and Teaching experience:

Research experience as project JRF for over two years in field of fabrication of biosensors of diseases. During her doctorate Training has learned skills of fabrication of nanomaterials, its characterization tools such as electrochemical characterization, microscopic characterization etc., can work as independent researcher, enthusiastic, responsible, and able to work independently and in team with initiative. Moreover, has teaching experience of over 3 years plus for teaching the graduates and post graduates of Biotechnology/ microbiology. Proficient in teaching imbibed with innovative ideas and lays emphasis on problem solving skills. She has also supervised the MSc project trainee in the field of green nanotechnology and its antimicrobial activity.

*Research areas include Sensors, Composites/ Nanocomposites and Electrochemistry, green nanoparticles***.**

Educational qualifications: 1)	***June 2012- November 2016*** **Ph.D (Materials Science &Technology)**	**Indian Institute of Technology, BHU,Varanasi, India**	**"Development of geno sensors for pathogenic bacteria"**
2)	***June 2011- June 2012*** **Project JRF**	**IIT-BHU,Varanasi, India**	**Development of genesensor of *Listeria monocytogenes* based on Hly A gene.**
3)	***June 2007- May 2009*** **Msc. Biotech (H)**	**ITS Paramedical College, Muradnagar**	**77.50%**
4)	***June 2005-June 2007*** **Bsc Biotech (H)**	**IMS Engineering College**	**74%**

Employment/ Research Experience:

• Presently working as Assistant Professor in a private University, Greater Noida since 5 years.

• Developed the biosensor for pathogen Listeria based on conducting polymer as Project-JRF in IIT-BHU.

• As Trainee at Industrial Quality Control Laboratory in Mohan Meakins, Mohan Nagar learned various quality control testing techniques for juice making and dehydration.

• As trainee for 6 months in Dabur India, Anand Vihar Ghaziabad, learnt about the quality control and safety of various ayurvedic products.

• During her M.Sc dissertation with Department of Biochemistry under Prof. Madhulika Singh project entitled " Micropropagation of plant Artocarpus lakoocha" at Kanpur University got sufficient exposure with basic biotechnological techniques of sterilization and in house plantation.

• Participated and presented her research in various national and international conferences during her Ph.D and her teaching duration

• Has successfully published many papers in journals of international repute with UGC listed.

Papers and Publications:

1. Gupta K, Gupta S, Dubey SK, Prakash R, 2015. *Genosensor based on nanostructured platinum modified glassy electrode for Listeria detection*, Anal Methods 7: 2616-2622. (Impact Factor: 2.378)
2. Gupta K, Soni DK, Mishra SK, Prakash R, Dubey SK. 2015. *Label-free impedimetric detection of Listeria monocytogenes on poly 5-carboxy indole modified ssDNA probe*, Journal of Biotechnology, 200: 70-76. (Impact Factor: 3.163)
3. Gupta K, Bansal S, Jyoti A, Chandra P, Prakash R, 2017, " *Highly Sensitive In Vitro Biosensor for Enterotoxigenic Escherichia coli Detection Based on ssDNA Anchored on PtNPs-Chitosan Nanocomposite*, Electroanalysis (Impact factor: 2.851).
4. Kashish, 2019, "*Nanomaterial Surfaces Based Sensing Platform for Highly Sensitive Impedimetric DNA Detection: A Critical Review*, Asian Journal of Science and Technology, 10:10472-10483. (SGIF impact factor:6.9). Kashish Gupta and A. Geetha Bhavani. *India Preparedness on Surveillance and Disaster Management on COVID-19 19*, Disaster and management,volume 9 , 2020, ISSN: 0973-6700.
5. Kashish Gupta, AK Bhavani, *One pot synthesis of Cuboidal PtNP for Biosensing applications*, under review in International Journal of Science and technology, 2021
6. Kashish, Gupta P, "*Raj Yoga Meditation as a pivotal pillar of human health*-mini review, 2022, International journal of holistic health, 2022
7. Gupta, K., Sharma VK, *Biosurfactants and its biomedical importance*, submitted in Biotech & Bioengineering, 2022.
8. Kashish, Prakash R, "*Green Silver nanoparticles using root extract of Acryanthus aspera and its antimicrobial applications*" to be submitted 2022.

Books & Book Chapters:

One book co-authored under aegis of Ayah publisher Environmental Biotechnology and its applications, 2021

1. Electroactive polymeric materials chapter 5, "History and progress of electroactive polymers" Jaiswal A, Gupta K, 2022 by CRC Press, ISBN 9781032002804.

2. Electroactive polymeric materials, Chapter 15" electroactive polymers in Biomedicine" Gupta K, CRC Press, 2022 ISBN 9781032002804.
3. Chapter 24 - Synergistic effect of biosurfactant with nanomaterials for the bioremediation of toxic sites, Green Sustainable Process for Chemical and Environmental Engineering and Science, Editor(s): Inamuddin, Charles Oluwaseun Adetunji, Abdullah M. Asiri, Elsevier,2021, Pages 523-535, ISBN 9780128233801. https://doi.org/10.1016/B978-0-12-823380-1.00023-X
4. Kashish Gupta, Chapter 21 - Increased bioavailability of hydrophobic polycyclic aromatic hydrocarbons (PAH) using biosurfactants, Editor(s): Inamuddin, Charles Oluwaseun Adetunji, Green Sustainable Process for Chemical and Environmental Engineering and Science, Elsevier, 2021,Pages 419-432, ISBN 9780128226964, https://doi.org/10.1016/B978-0-12-822696-4.00013-9.
5. Kashish Gupta,Chapter 17 - Application of enzymes derived from beneficial microorganisms and their synergetic effects with biosurfactants and their role in bioremediation,Editor(s): Inamuddin, Charles Oluwaseun Adetunji,Green Sustainable Process for Chemical and Environmental Engineering and Science,Elsevier,2021, Pages 353-365,ISBN 9780128226964 https://doi.org/10.1016/B978-0-12-822696-4.00014-0
6. Kashish Gupta, Chapter 18 - Biosurfactant-based bioremediation of soil and aquatic contaminants, Editor(s): Inamuddin, Charles Oluwaseun Adetunji, Green Sustainable Process for Chemical and Environmental Engineering and Science, Elsevier, 2021, Pages 367-376, ISBN 9780128226964. https://doi.org/10.1016/B978-0-12-822696-4.00002-4.
7. Kashish, "Alternative Smart Green Approaches for the Conventional Plastic: PHA", April 2020, to be published as chapter in book entitled" Environmental aspect of alternative energy sources".

Supervisorship/Mentorship:

1. Has guided three MSc students for their project dissertation on green nanoparticles and its applications (2019 and 2020) and one running for this semester.

2.Has guided 2 Msc students from Gurunanak university on Algal based Bioremediation (2021).

3. One Ph.D student research thesis on "Anti-oxidant and anti ageing potential of medicinal plants on TOR gene expression of yeast", is ongoing (2018-2022)

Awards &Recognitions:

1. Presented Young Scientist award by Ve Good Technologies, Hyderabad, 2020
2. Nominated young scientist IARE award by GISR Foundation, Noida, 2020.
3. Best poster award in International conference-RAAS 2014
4. Best oral presentation in International Conference ICMFA 2015.
5. NET/LS with 36 rank (2011) &2012(twice qualified) GATE qualified 2011.

6. Topper biology (96) intermediate exam 2005.

Conferences &Workshops:

National /International:

FDP:

Attended Two-week Interdisciplinary Refresher Course on "Advanced Concepts in developing MOOCS " organised under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) scheme. Oct 6-20 2021

Attended various FDP and conferences during covid 19.

Mentored students of MSc. botany gurunank university, punjab

 Attended FDP, QIP-STC, SMST, IIT-BHU, Varanasi, May 2019.

 Successfully organized Workshop on Nanomaterials, Department of Biotechnology, NIU, 2018.

 Has organized the National Science Day 2018 at NIU, and participated in symposium on Innovation in Science.

 Has participated in Global summit 2017 at NIU.

 Has been an event coordinator in National Science Day 2017, Sustainability: Futuristic approach.

 Has given the oral presentation in the International Conference on Nanobiotechnology, Feb 5-6, 2018.

 Has presented poster in the international conference, 19-23 Feb 2017, ABSMSNW-17, at IITBHU, Varanasi.

 Has presented poster in International Conference on Material s Science & technology on 1-4 march 2016, conference center, University of Delhi.

 Given Oral Presentation in International conference on Nanomaterials & Nanotechnology, 7-10 Dec 2015 (Nano -15) Trichengode, TN, South India.

 Has presented poster in CRSI 2016, 5-7 Feb, 2016 at Institute of Nanoscience &Technology, Punjab University.

 Has given oral presentation in International Conference on multifunctional Materials for future applications (ICMFA-2015).

 Has presented poster in international conference on Recent Advances in analytical Science, RAAS2014, and March 27-29, 2014.

 Workshop on instrumentation Science lecture series by ISAS chapter 20-21 Feb for both years 2011 &2015.

 Has participated in International conference on Nanoscience and nanotechnology ICNN2013, November 18-20Lucknow.

 Has attended National workshop on Advanced functional; Materials and structures, July 12-14, 2012, MNIIT Allahabad.

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Academic Achievements:

Extracurricular activities: Participated in various drawing, singing, elocution, essay writing competitions. Had anchored various events. Certified in various holistic medicine courses.

Laboratory skills: G.L.P., Chemical analysis of various chemical compounds

Industrial products. Knowledge-

Working and handling ofVarious instruments such as Culturing and plating MOs (Laminar Air Flow), Autoclave, X-Ray Diffraction, Atomic Force Microscope, Cyclic voltammetry, U.V. Spectrophotometer, pH meter, Fabrication of nanomaterials technique, Electrochemical instruments handling

Personal Details

Date of birth: 13/12/1985

Hobbies: Reading, Traveling, Music, blogging, composing short stuff.

Date:8-05-2022

Place: Greater Noida