### CURRICULUM –VITAE

###### PERSONAL DETAILS

###### Name: Dr. (Ms) Nasreen Ghazi Ansari

Father’s Name: Lt. Abdul Salam Ansari

Date of Birth: 20th January, 1974

Nationality: Indian

Contact Address: Scientist & Assistant Professor (in AcSIR)

(Office) Analytical Chemistry Laboratory and Regulatory Toxicology Group

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**Current R&D/S&T Activities**

Microextraction analytical method development for different pollutants and toxicants.

Development of methods for the pesticides, secondary metabolites, preservative and additives in food, environmental and biological samples.

Development of low-cost material for heavy metal bioremediation of water.

**EDUCATIONAL QUALIFICATION**

* 2006: Awarded Doctoral degree from Rani Durgavati University Jabalpur, M.P, India, under the supervision of Late Prof. Ashutosh Srivastava, entitled “*Isolation, purification, characterization and bioherbicidal studies on bioactive molecules of selected plants*”. In January 2006
* 2006: Awarded Certificate in computing from Indira Gandhi National Open University, New Delhi (2006)
* 1999: Received Master of Science degree (M.Sc.) in Chemistry (Analytical Chemistry specialization) from Chemistry Department, Rani Durgavati University, Jabalpur, M.P, India
* 1997: Received B.Sc. Degree (in Chemistry, Botany, Zoology) from Rani Durgavati University, Jabalpur, M.P, India, M.P, India.
* 1993: Awarded Senior school certificate from Madhya Pradesh Board, Bhopal
* 1991: Awarded High school certificate from Madhya Pradesh Board, Bhopal

**AWARD/ HONOURS/ DISTINCTIONS**

* Attained merit in M.Sc (Organic chemistry) in Rani Durgawati University, Jabalpur during 1999.
* **Senior Research Fellow** (*Residue chemist*) under the project “*Fate and phytotoxic efficacy of herbicides and their impact on nutrient cycle in soybean in relation to soil properties*” during May2001-August 2004, at National Research Center for Weed Science (ICAR).
* **Senior Research Fellow** (*Residue chemist*) under the project “*Feasibility of increasing persistence of some rice herbicides and its consequences in soil environmen*t” during May2005-July2008, at National Research Center for Weed Science (ICAR).

**RESEARCH EXPERIENCE:**

* **More than 10 years** of experience in analytical chemistry and regulatory toxicology
* Experience in spectroscopy and chromatographic techniques for toxicant and pollutant estimation
* More than 4 years of experience as internal auditor in ISO/IEC 17025: 2005 (NABL) and as Head, archivist in GLP facility.
* Research and development experience on evaluation of low cost material for wastewater remediation, newer miniaturized cost effective method developments for estimation heavy metal, pesticides, preservative and additive in environmental, biological and food matrices using statistical modeling. Estimation of biological molecules for lipidomics and proteomics studies in various animal model and alternated model system. Structure elucidation of plant molecule using advance IR, GC-MS, HPLC, 13C and 1H-NMR. Control release formulation of pesticide for the safer and slow release of pesticide for single crop duration.
* NABL signatory for the certified testing of pesticide and heavy metals in environmental and biological matrix.
* Hands-on analytical instruments experience on GC-MS/MS, GC, HPLC, ICP-OES, AAS and AFS along with analytical interpretation of quantitative and qualitative data.
* Delivered know how expertise through training to scientific, technical personnel and students of various organizations/ universities on analytical advances and extraction methodologies of different analytes.
* Possess expertise on kinetics of soil applied herbicide as influence by biotic and abiotic factor. Soil physiochemical estimation along with enzymatic assay and its kinetic as indicator of soil health.
* Experience in sophisticated instruments and statistical software’s for data processing and interpretation

**PROFESSIONAL EXPERIENCE:**

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| --- | --- | --- | --- |
| Senior research fellow | 2001 | 2004 | NRCWS-ICAR |
| Senior research fellow | 2005 | 2008 | NRCWS-ICAR |
| Research Associate | 2008 | 2008 | CIAE-ICAR |
| Group IV (I)/ Scientist- B | 2008 | 2012 | CSIR- IITR |
| Group IV (II)/ Scientist -C | 2012 | Till date | CSIR- IITR |

**PROFESSIONAL TRAININGS ATTENDED**

* Attended training on “Residue Analysis of Pendimethalin in soil by GLC” during 13th Nov to 15th Nov 2002 at Division of Agricultural Chemicals, IARI, New Delhi.
* Attended training cum workshop on “Role of allelopathy in weed management” during 26- 27 April 2002, at National Research Center of Weed Science, Jabalpur.
* Attended training on “Gas Chromatography” during 14th Sept -19th Sept 2005, at Chemito Technologies Pvt. Ltd, Nashik.
* Attended ‘Workshop on Self Effectiveness at the Workplace’ during 20 - 22 October 2008, at Human Resource Development Centre (CSIR), Ghaziabad, India
* Attended ‘Induction Training Programme’ during 23-28 Feburary 2009, at Human Resource Development Centre (CSIR), Ghaziabad, India
* NABL Training on “Laboratory Management System and Internal /Audit” ISO 17025:2005, 6-9th July, 2010 at IIQM, Jaipur
* Attended training on“Research Methodology and Statistical Methods” 21-25th February, 2011 at HRDC, Ghaziabad
* Attended ‘DST Workshop on Research Methodologies’ for women scientist during 3-7October 2011, at All India Institute of Medical Sciences (AIIMS), New Delhi, India
* Attended PTB-NPL Training on ‘Metrology In Chemistry’ during 10-14 October 2011, at National Environment and Engineering Research Institute (CSIR), Nagpur, India
* Attended the training course on “Evaluation of measurement uncertainty (chemical parameters)” during 23-25 Jan, 2017at Indian Institute of Quality Management, (Certificate No. IIQM/TRG/393/2017) Jaipur, India

**PROFICIENCY TESTING (PT) PROGRAMME**

* Proficiency testing program (PT-AS-F-NPL/2016) on “Testing of arsenic and fluoride in aqueous medium” conducted by CSIR-NPL. Result communicated to the PT program coordinator, CSIR-NPL (June 2016)
* Proficiency testing programme (PT-Trace metals-NEERI/2016 on “Cadmium, chromium, copper, iron, lead, manganese, nickel, zinc in aqueous solution” conducted by CSIR-NEERI. Result communicated to the PT program coordinator, CSIR-NEERI (Aug 2016).
* Successfully completed inter laboratory comparison lab code (NEERI/AID/PRL/4-05/16-17) for the “Analysis of reference material for monitoring of pp’DDT and pp’DDE pesticides in drinking water”, organised by CSIR-NEERI as ILC program 2016-2017. Result sheet of our report was found satisfactory (Sept. 2016)

**PUBLICATIONS**

***Manual***

K. K. Barman, **Nasreen Ghazi Ansari** and N.T. Yaduraju (2004). Practical Manual On Herbicide Bioassay. Published by Director, National Research Centre for Weed Science (ICAR), Jabalpur, Madhya Pradesh.

* Course material preparation for skill India programme `on “Certificate Course in Advanced Instrumentation for monitoring and analysis of environmental pollutants”.

***Reports***

* Final report on ICAR adhoc Project” *Fate and phytotoxic efficacy of herbicides and their impact on nutrient cycle in soybean in relation to soil properties*” (2004) National Research Center for Weed Science (ICAR). (PI: Dr. K.K. Barman)
* Final report on ICAR adhoc Project *“Feasibility of increasing persistence of some rice herbicides and its consequence in soil environment:”* (2008) National Research Center for Weed Science (ICAR). (PI: Dr. K.K. Barman)

***Papers***

1. Gupta, Vineeta, Nasreen Ghazi Ansari, Ravindra Kumar Garg and Sanjay Khattri. 2017. "Determination of Cd, Cr, Pb and Ni Contents among Parkinson's Disease Individuals: A Casecontrol Study." *International Journal of Neuroscience* 127(9):770-75.
2. Ankita Asati, G.N.V. Satyanarayana, Smita Panchal, Ravindra Singh Thakur, Nasreen G Ansari, Devendra K Patel. 2017. "Ionic Liquid Based Vortex Assisted Liquid-Liquid Microextraction Combined with Liquid Chromatography Mass Spectrometry for the Determination of Bisphenols in Thermal Papers with the Aid of Response Surface Methodology." *Journal of Chromatography A*.
3. Abhishek, A, V Singh, RJ Sinha, NG Ansari, MKJ Siddiqe, M Verma and M Kumar. 2017. "To Study the Relationship between Cadmium, Zinc and Mtdna Copy Number in North Indian Patients Suffering from Prostate Cancer: A Case Control Study." *African Journal of Urology* 23(2):126-32.
4. Anurag Kumar Srivastav, Mahadeo Kumar , Nasreen Ghazi Ansari, Abhishek Kumar Jain, Jai Shankar, Nidhi Arjaria, Pankaj Jagdale, Dhirendra Singh. 2016. "A Comprehensive Toxicity Study of Zinc Oxide Nanoparticles Versus Their Bulk in Wistar Rats: Toxicity Study of Zinc Oxide Nanoparticles." *Human and Experimental Toxicology*:1-19.
5. Miyan, Kaish, Mohammad Afzal Khan, Devendra Kumar Patel, Shahista Khan and Nasreen Ghazi Ansari. 2016. "Truss Morphometry and Otolith Microchemistry Reveal Stock Discrimination in Clarias Batrachus (Linnaeus, 1758) Inhabiting the Gangetic River System." *Fisheries Research* 173:294-302.
6. Pal, Anu, Shamshad Alam, Lalit KS Chauhan, Prem N Saxena, Mahadeo Kumar, Ghazi N Ansari, Dhirendra Singh and Kausar M Ansari. 2016. "Uvb Exposure Enhanced the Dermal Penetration of Zinc Oxide Nanoparticles and Induced Inflammatory Responses through Oxidative Stress Mediated by Mapks and Nf-Κb Signaling in Skh-1 Hairless Mouse Skin." *Toxicology Research* 5(4):1066-77.
7. Kumari, Rupender, Devendra K Patel, Smita Panchal, Rakesh R Jha, GNV Satyanarayana, Ankita Asati, Nasreen G Ansari, Manoj K Pathak, C Kesavachandran and Ramesh C Murthy. 2015. "Fast Agitated Directly Suspended Droplet Microextraction Technique for the Rapid Analysis of Eighteen Organophosphorus Pesticides in Human Blood." *Journal of Chromatography A* 1377:27-34.
8. Singh, Uday Veer, Amar Abhishek, Monika Bhaskar, Neeraj Tandan, Nasreen Ghazi Ansari and Netra Pal Singh. 2015. "Phyto-Extraction of Heavy Metals and Biochemical Changes with Brassica Nigra L. Grown in Rayon Grade Paper Mill Effluent Irrigated Soil." *Bioinformation* 11(3):138.
9. Pandey, Ruchi, Nasreen Ghazi Ansari, Ram Lakhan Prasad and Ramesh Chandra Murthy. 2014a. "Removal of Cd (Ii) Ions from Simulated Wastewater by Hcl Modified Cucumis Sativus Peel: Equilibrium and Kinetic Study." *Air, Soil and Water Research* 7:93.
10. Pandey, Ruchi, Nasreen Ghazi Ansari, Ram Lakhan Prasad and Ramesh Chandra Murthy. 2014b. "Pb (Ii) Removal from Aqueous Solution by Cucumis Sativus (Cucumber) Peel: Kinetic, Equilibrium & Thermodynamic Study." *American Journal of Environmental Protection* 2(3):51-58.
11. Pandey, Ruchi, Ram Lakhan Prasad, Nasreen Ghazi Ansari and Ramesh Chandra Murthy. 2014c. "Utilization of Naoh Modified Desmostachya Bipinnata (Kush Grass) Leaves and Bambusa Arundinacea (Bamboo) Leaves for Cd(Ii) Removal from Aqueous Solution." *Journal of Environmental Chemical Engineering*.
12. Abhishek, Amar, Nasreen Ghazi Ansari, Satya Narayan Shankhwar, Jain2 and Amita Vishwajeet. 2014. "In Vitro Toxicity Evaluation of Low Doses of Pesticides in Individual and Mixed Condition on Human Keratinocyte Cell Line." *Bioinformation* 10(12):712-16.
13. Abbas, Sabiya, Kainat Khan, Mohd Parvez Khan, Geet Kumar Nagar, Deepshikha Tewari, Shailendra Kumar Maurya, Jyoti Dubey, Nasreen Ghazi Ansari, Sanghamitra Bandyopadhyay and Naibedya Chattopadhyay. 2013. "Developmental Exposure to as, Cd, and Pb Mixture Diminishes Skeletal Growth and Causes Osteopenia at Maturity Via Osteoblast and Chondrocyte Malfunctioning in Female Rats." *toxicological sciences* 134(1):207-20. (IF 4.652)
14. Kumari, Rupender, Devendra Kumar Patel, Prashant Chaturvedi, Nasreen Ghazi Ansari and Ramesh Chandra Murthy. 2013. "Solid Phase Micro Extraction Combined with Gas Chromatography-Mass Spectrometry for the Trace Analysis of Polycyclic Aromatic Hydrocarbons in Chocolate." *Analytical Methods* 5(8):1946-54. (IF 1.547)
15. Ruchi Pandey, Nasreen Ghazi Ansari, Ram Lakhan Prasad, Ramesh Chandra Murthy. 2013. "Cd (Ii) Adsorption from Aqueous Solution onto Cucumis Sativus Peel: Equilibrium, Thermodynamic and Kinetic Study." *Journal of Ecophysiology and Occupational Health* 13((3&4)):75. (IF: 1.056)
16. Khan, Mohammad Afzal, Kaish Miyan, Shahista Khan, Devendra Kumar Patel and Nasreen Ghazi Ansari. 2012. "Studies on the Elemental Profile of Otoliths and Truss Network Analysis for Stock Discrimination of the Threatened Stinging Catfish Heteropneustes Fossilis (Bloch 1794) from the Ganga River and Its Tributaries." *Zool Stud* 51:1195-206. (IF: 0.975)
17. Kumari, Rupender, Prashant Chaturvedi, Nasreen G Ansari, Ramesh C Murthy and Devendra K Patel. 2012. "Optimization and Validation of an Extraction Method for the Analysis of Polycyclic Aromatic Hydrocarbons in Chocolate Candies." *Journal of food science* 77(1). (IF: 1.73)
18. Tiwari, Jitendra Nath, Prashant Chaturvedi, Nasreen Gazi Ansari, Devendra Kumar Patel, Sudhir Kumar Jain and Ramesh Chandra Murthy. 2011. "Assessment of Polycyclic Aromatic Hydrocarbons (Pah) and Heavy Metals in the Vicinity of an Oil Refinery in India." *Soil and Sediment Contamination* 20(3):315-28. (IF: 0.819)
19. Tiwari, Jitendra Nath, Prashant Chaturvedi, Nasreen Gazi Ansari, Devendra Kumar Patel, Sudhir Kumar Jain and Ramesh Chandra Murthy. 2011. "Assessment of Polycyclic Aromatic Hydrocarbons (Pah) and Heavy Metals in the Vicinity of an Oil Refinery in India." *Soil and Sediment Contamination* 20(3):315-28. (IF: 0.819)
20. Barman KK, Nasreen G. Ansari, G K Boudh, Jay G. Varshney. 2008. "Comparative Efficacy of Lantana, Sesbania and Crop Residues as Nutrient Source under Submerged Field Condition." *Indian J of Weed Science .* 40:203-07.
21. Barman, KK, Nasreen Ghazi Ansari and Monika Dubey. 2006. "Effect of Water Hyacinth on Biomass Yield of Spinach and Nutrient Availability." *Journal of the Indian Society of Soil Science* 54(1):75-79.

**TRAINING PROGRAMME ORGANIZED**

* **Two training courses on “Advance analytical instrumentation techniques: Application in the area of environment**” from 22-26 August, 2016 and 19-23 September, 2016 for Maharashtra Pollution Control Board (MPCB) for scientific staff regarding theoretical aspects of advanced sophisticated instruments like GC-MS/MS & LC-MS/MS and analytical demonstration for pollutants from environmental components i.e. **air, water, soil for these parameters: PAHs, pesticides, PCBs, heavy metals etc**. During the training programme participants were exposed to spectroscopic and chromatographic techniques, precision and accuracy of results and quality assurance & quality control aspects.
* Organized three week skill India training programme and trained nineteen post graduate student on the different analytical instrumental techniques like GC, HPLC, AAS and AFS and their principle with hand-on working experience and sample possessing for quantification of analyte

**MEMBERSHIP OF PROFESSIONAL BODIES:**

Life Member of Indian Society of Analytical Scientists (Membership No.LMT-2010/42)

**STUDENT GUIDED**

Guided fourteen students for their M.Sc dissertation work.Ph.D co-guide to two AcSIR