

Present Affiliation

Dr. Ashok Kumar Maurya, Ph.D
Food Safety and Analytical Quality Control Laboratory (FS & AQCL),
[Referral Food Laboratory under FSSAI] & [ISO/IEC 17025: 2005]
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AREA OF SPECIALIZATION

- Pesticide residue chemistry

ACADEMIC CREDENTIALS

- ☑ **Ph.D (Pesticide residue chemistry)** - Thesis entitled “*Adsorption - Desorption and Leaching Behavior of Carbofuran and Chlorpyrifos Pesticides in Different Soils of U.P*” India.
- ☑ **M.Sc. (Organic Chemistry)**
- ☑ **B.Sc. (Zoology, Botany and Chemistry)**

PAST CAREER SCAN

[ICAR-Indian Agricultural Research Institute, Pusa, New Delhi]

Name of Organization	NABL Accreditation	Post held	Date of Joining	Date of Leaving	Project Name	Nature of duties
Division of Agricultural Chemicals, ICAR-IARI, Pusa, New Delhi, India	ISO/IEC 17025 : 2005	Senior Research Fellow	18.01.2007	18.07.2007	Persistence Study of <u>Azoxystrobin Pesticide</u> in Soil, Water and Plant System	<ul style="list-style-type: none">➤ Analysis of pesticide residues in food commodities, water and soil samples by GC/GC-MS
Division of Agricultural Chemicals, ICAR-IARI, Pusa, New Delhi, India	ISO/IEC 17025 : 2005	Senior Research Associate	13.09.2007	30.12.2009	Monitoring of <u>Pesticide Residues</u> in food commodities at National Level under the Department of Agriculture and Cooperation, Ministry of Agriculture sponsored central sector scheme	<ul style="list-style-type: none">➤ Development of new analytical methods for estimation of pesticide residues in food commodities using GC/GC-MS➤ Analysis of pesticide residues in food commodities, water and soil samples by GC/GC-MS

PAST CAREER SCAN (Industrial Experience)

Name of Organization	NABL Accreditation	Post held	Date of Joining	Date of Leaving	Nature of duties
SGS India Pvt Ltd, Gurgaon, India	ISO/IEC 17025 : 2005	Senior Chemist	31.12.2009	13.09.2010	<ul style="list-style-type: none"> ➤ Development of new analytical methods for estimation of pesticide residues in food commodities using GC/GC-MS/MS ➤ Analysis of pesticide residues in food commodities, water and soil samples by GC/GC-MS/MS
National Reference Laboratory (Dr Lal Path Labs Pvt Ltd), Rohini, New Delhi, India	ISO 15189 : 2007	Senior Scientist	14.09.2010	07.02.2013	<ul style="list-style-type: none"> ➤ Optimization & Validation of new analytical methods for drugs using LC-MS/MS and GC-MS ➤ Analysis of hormones by DELPHIA & ELISA Instrument

PRESENT ACTIVITIES HIGHLIGHT [CSIR-Central Food Technological Research Institute]

- Analysis of Pesticide residues in food products as per Food Safety & Standard Authority of India (FSSAI) regulations
- Food analysis with special reference to Pesticides in Industrial Samples
- Analytical method development and inter-laboratory validation for Pesticide Residues
- Practical & lecture sessions during short term industries sponsored courses in the field of pesticides.
- Guidance to students (M.Sc & M.Tech) for dissertation work in research field of Pesticide safety evaluation
- Delivering lecture classes/practical classes to M.Sc (Food Technology)/Integrated M.Sc and Ph.D – Nutrition Biology Students
- Involve as a Principal Investigator & Member in house, Industrial & consultancy projects of pesticide residues & other contaminants/toxicants.

Projects [CSIR-Central Food Technological Research Institute]

S.No	Type of Project	Title of Project	Role	Status
1.	MLP-0143	Naturally Occuring Toxic Substance (NOTS) and Acrylamide in selected Indian Food: Study of their occurrence and development of new mitigating strategies for Acrylamide	Principal Investigator (PI)	Completed
2.	PSC-0111	Measurement Innovation in Science & Technology	Member	Completed
3.	CNP-517	Setting up of QC Laboratory for evaluation of phyto-toxicity in fruits, vegetables and spices	Member	Completed
4.	SSP-217	Analytical Method Validation and Harmonization for Vitamin D, Minerals and Fatty acids in Abbott Nutritional Supplements	Member	Completed

Projects
[CSIR-Central Food Technological Research Institute] cont...

S.No	Type of Project	Title of Project	Role	Status
5.	CNP – 524	Upgradation of Analytical Labs, Training and Surveillance Sample Testing” for the Food Analyst Laboratory staff of Gov. of Kerala	Member	completed
6.	CNP-536	Modernization and accreditation of Quality Control lab of FCI at Gurgaon for the analysis of Uric acid, Mycotoxins and Pesticide residues for M/s Food Corporation of India, New Delhi	Member	Ongoing
7.	SSP-230	Analytical Method Validation and Harmonization for Vitamin A and Folic acid in Nutritional Supplements	Principal Investigator (PI)	Ongoing

Dissertation Student (M.Sc/M.Tech) Guided in Research Field of Pesticide Residues
[CSIR-Central Food Technological Research Institute]

S.No	Student/ University	Topic	Duration
1	Miss Ruchi Harjpal/Pt. Ravishankar Shukla University, Raipur -INDIA	Replacement of Primary Secondary Amine from QUECHER method by low cost adsorbents for analysis of Dimethoate, Malathion, α & β Endosulfan Pesticides in selected fruits/vegetables	January,2014 - May,2014
2	Miss Priya Patel H.G/ ICAR-Agriculture University, Karekeve, Hassan, Karnataka -INDIA	Analysis of Organochlorine Pesticide (pp-DDE, pp-DDD & pp-DDT) in Tomato and Vegetable Oil By Modified QuEChERS - Dispersive Solid Phase Extraction Method	December,2014 - April,2015
3	Miss. Abinaya S.I, Periyar Maniammai University Vallam, Thanjaveer – 613-403 (Tamil Nadu) -INDIA	Rapid & Easy Multi-residue method for determination of selected Pesticides in Food using Gas chromatography	December,2015 - April,2016
4.	Miss. Shilpi Singh/ Sam Higginbottom University of Agriculture, Technology & Sciences, Allahabad --INDIA	Validation of Modified QuEChERS Method and Screening of Selected Organochlorine Pesticides in Vegetables and Fruits Using GC-ECD	January, 2017 - April, 2017

RESEARCH INTERESTS

- Laboratory and field-based studies monitoring the environmental fate of pesticides in food , soil and water
- Assessment and quantification of toxicants/contaminants in the Food commodities
- Instrumental analysis (GC-ECD/FPD/NPD/FID, HPLC-UV/PDA/Fluorescence/RI, GC-MS/MS, Elisa, LC-MS/MS etc)

TRAININGS COMPLETED

- ☑ Five Days training “**Training of Trainer**” on **Analysis of Pesticide Residues** in Food organized by **Food Safety and Standard Authority of India (FSSAI)**, New Delhi from **01-05 May 2017** at ICAR – National Research Center for Grapes, Pune, India
- ☑ Four days training for **Laboratory Quality Management System & Internal Audit** as per **ISO/IEC-17025: 2005** conducted by STQC, Directorate (Government of India) in Noida (U.P), India during 10-13, March, 2015.
- ☑ Three Days training on estimation of **Measurement Uncertainty** organized by **Bureau of Indian Standards (BIS)**, Chennai, India during **10-12 February, 2014**
 - Seven days training on **LC/MS/MS** at Dr. Lal Path Labs, Rohini, New Delhi, India (From 21/03/2011 to 24.03.2011 and 10/05/2011 to 12.05.2011).
 - Two days training on “**LC/MS/MS**” from March 29th to March 30th, 2011 at Udyog Vihar, Lab India Pvt Limited, Gurgaon (Haryana), India
 - Two days training on **GC/MS** at Dr. Lal Path Labs, Rohini, New Delhi, India (From 27/01/2011 to 28.01.2011).
 - Two days training on “**GC/MS**” from December 28th to December 29th, 2010 at Customer Support Centre, Shimadzu Analytical (INDIA) Pvt. Limited, New Rajendra Nagar, New Delhi.
 - Two days training on “**High Pressure Liquid Chromatography**” from September 29th to September 30th, 2010 at Customer Support Centre, Shimadzu Analytical (INDIA) Pvt. Limited, New Rajendra Nagar, New Delhi, India
 - Three days training on **Pesticide Residue Analysis** in Food Commodities and Environmental Samples by GC-ECD/FID, GC/MS from September 18th, 2008 to September 20th, 2008 at ICAR-Indian Agricultural Research Institute, New Delhi, India
 - Two days training on “**Quality Management System**” (ISO/IEC 17025 : 2005) from October 10th, 2008 to October 11th, 2008 at ICAR-Indian Agricultural Research Institute, New Delhi.
 - **Three months’** training course on “**Pesticide Residue Analysis**” in food commodities, water and soil samples by using sophisticated instruments viz., **UV-Vis spectrophotometer, GC/GC-MS and HPLC** from **July, 2006 to September, 2006** at the National Plant Protection Training Institute, Hyderabad, India
 - **Two weeks** training programme on “**Gas Chromatography & Spectrophotometric Analysis**” from 1st August, 2005 to 12th, 2005 at Advanced Training Institute, Guindy, Chennai, India

- **Three months** training course on “**Chemical Testing**” from **October 18th, 2004 to January 18th, 2005** at Process and Product Development Centre, Agra, U.P, India

Research Paper Publications (15 February 2013 to till now)

- **Maurya Ashok Kumar**, Harjpal Ruchi and Sreenivasa M.A “Validation of Modified QuEChERS method using Low Cost Adsorbent and Screening of Selected Organochlorine and Organophosphorus Insecticides in Fruits and Vegetables” *Int. Res. J. Env. Sci.*, 4(5), 18-27 (2015)
- **Ashok Kumar Maurya**, Sabeena K., Aruna Kumar, Jinesh P. and M. A. Sreenivasa “Modified QuEChERS Method for Determination of Alfa-Endosulfan & Methyl Parathion Pesticides (OCs/OPs) in Vegetable oils by GC-ECD/FPD” *Int J. Journal of Trop Agri.*, 33 (2), 1373 – 1379, 2015
- **Ashok Kumar Maurya**, Alok Kumar Srivastava and M.A.Sreenivasa “Indian Agriculture & Pesticide” Annual Rajbhasa Magazine (Aahar Bharti) published by CSIR-Central Food Technological Research Institute - Mysore , Page 9-12, 2015
- Khushbu Sharma, Rajendra Kumar Sharma, **Ashok Kumar Maurya**, Peter Edward Joseph “Effect of Fly Ash and Bagasse Charcoal on the Mobility of Atrazine in Indian Sandy Loam Soil” *Cogent Environmental Science*, 2015
<http://dx.doi.org/10.1080/23311843.2015.1081128>
- **Ashok Kumar Maurya** & Aman Kumar “Organochlorine Pesticides in the Surface Waters from Sharda River Region, Uttar Pradesh-India” *The SIJ Transactions on Advances in Space Research & Earth Exp (ASREE)*, Vol. 1, No. 1, May-June 2013

Research Abstract Publications

- **Ashok Kumar Maurya**, Aruna Kumar, Jinesh P. and M. A. Sreenivasa “Preparation of Certified Reference Material (CRM) and Conducting Proficiency Testing (PT) for Alfa-Endosulfan & Methyl Parathion Pesticides in Milk Powder” Page 93, 85th Annual Meeting of Society of Biological Chemist (India) organized by CSIR-CFTRI, Mysore during 21st-24th November, 2016
- Khushbu Sharma, R. K. Sharma, **Ashok Kumar Maurya** and P. E. Joseph “Sorption & mobility of **hexaconazole and captan fungicide** in two different soils of India. Proceedings of abstract book of International conference on Global challenges-The role of chemistry in giving them solutions held at **Benkok (Thailand)** from 11-15 June 2011. Pg.150.
- **Ashok Kumar Maurya**, R.K.Sharma, Khushbu Sharma and P.E.Joseph, “Adsorption-Leaching Behavior of **Carbofuran and Chlorpyrifos Pesticides** in Different Soils of Uttar Pradesh” *Recent Advances in Environmental Protection (RAEP 2009)*, pp-52.
- **Ashok Kumar Maurya**, R.K.Sharma, Khushbu Sharma and P.E.Joseph, “Adsorption-Desorption and Leaching behavior of **Chlorpyrifos Pesticides** in different soils of U.P.(INDIA).” *Book of abstracts, Indian Council of Chemists 27th Annual Conference, Gurukul Kangari Vishwavidhalaya, Haridwar. December, 26th – 28th, 2008.* pp-236.
- R.K.Sharma, **A.K.Maurya**, Khushbu Sharma and P.E.Joseph, “Effect of fly ash and bagasse charcoal on the mobility of **Atrazine Pesticides** in Sandy Loam soil”. *Book of abstracts, Indian Council of Chemists 27th Annual Conference, Gurukul Kangari Vishwavidhalaya, Haridwar. December, 26th – 28th, 2008.* pp-237.
- Khushbu Sharma, R.K.Sharma, **A.K.Maurya** and P.E.Joseph, “Adsorption-Desorption behavior of **Hexaconazole Pesticides** in two soils of U.P.(INDIA).” *Book of abstracts, Indian Council of Chemists 27th Annual Conference, Gurukul Kangari Vishwavidhalaya, Haridwar. December, 26th – 28th, 2008.* pp-263.
- Preeti Dayal Abhishek, Anoop Kumar, **Ashok Kumar Maurya**, P.E.Joseph, F.M.Prasad “ **Organochlorine Pesticide Residues** in Human Milk from Agra” *Recent Advances in Environmental Protection (RAEP 2009)*, pp-40.

CONFERENCES & SEMINARS

- Presented poster on topic entitled “ Certified Reference Material (CRM) and Conducting Proficiency Testing (PT) for Alfa-Endosulfan & Methyl Parathion Pesticides in Milk Powder” at 85th Annual Meeting of Society of Biological Chemist (India) organized by CSIR-CFTRI, Mysore during 21st-24th November, 2016

- Presented a paper entitled “**Development of Certified Reference Material (CRM) and conducting Proficiency Testing (PT) for Alfa-Endosulfan & Methyl Parathion Pesticides in vegetable oil**” in IJTA 1st International Conference on Agriculture & Horticulture Sciences, New Delhi during 6 -7 June -2015
- Participated in Waters Technology Seminar “**Solutions for current analytical challenges**” on 03 May 2013 at Fortune JP Palace, Mysore
- International Conference & Exhibition on “Recent Advances in Environmental Protection” held Chemistry Department, St. John’s College, Agra in Dec’09.
- National seminar on “Environmental Crisis and its Solution” in Feb’09 organized at Government P.G. College, Morena (M.P).
- International Seminar on “World Trade Organization and its Impact on Agricultural Trade” in Feb’09 held at Howard Park Plaza, Agra
- First International Conference on Agrochemicals Protecting Crop, Health and Natural Environment, held at Indian agricultural Research Institute, New Delhi in Jan’08.
- National seminar on “Agrochemicals in water and Beverages: Myth, Reality and Remedy” in Feb 2006 organized at the Division of Agricultural Chemicals, Indian Agricultural Research Institute, New Delhi.
- Seminar on “Chemical Pollution Due To Impact of Technology” from December 23rd to 24th, 2005 organized at the Department of Chemistry, Ambah Postgraduate College, Ambah (MP) and presented a research paper on the topic “Risk Assessment of **Organochlorine Pesticide Residues** in Human Milk of Agra region”.

WORKSHOP ATTENDED

- ☑ Work shop **on food safety** (participated from CSIR-CFTRI, FS & AQCL Deptt. side), conducted by Food Safety Standard Authority of India (FSSAI) & **Food Safety Authority Netherland** at CSIR-Central Food Technological Research Institute, Mysore, India during 03-05 October-2013
- ☑ Attended the workshop on “*New Trends of Biosensor Technology*” in Jan’09 organized at the Hindustan Engineer College, Mathura, India

Membership of Professional Societies

- Association of Food Scientists & Technologists (AFST) – India (Life Member)

PERSONAL DOSSIER

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Languages Known : English & Hindi

Date of Birth : 20 June 1982

Referees

1. Prof. Peter Edward Joseph
Principal
St John's College Agra
Uttar Pradesh - India
2. Dr. K.K.Sharma
Network Coordinator, All India Network Project (AINP) on Pesticide Residues,
Division of Agricultural Chemicals
ICAR-Indian Agricultural Research Institute,
New Delhi, India

3. Dr Irani Mukherjee
Professor
Division of Agricultural Chemicals
ICAR-Indian Agricultural Research Institute,
New Delhi, India

DECLARATION

I hereby proclaim that all the information furnished above is correct and true to the best of my knowledge.

(Dr. Ashok Kumar Maurya)
Technical Officer