



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE **5351**

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di** - Department of Food, Environmental and Nutritional Sciences, Università degli Studi di Milano, Milan, Italy.

Scientist- in – charge: **Prof. Dr. Matias Pasquali**

Manisha Dhanshetty

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	DHANSHETTY
Name	MANISHA

PRESENT OCCUPATION

Appointment	Structure
Senior Research Fellow at National Referral Laboratory, ICAR-NRCG, Pune (Maharashtra, India).	Microbial contaminant analysis <i>The last six years of my research career has equipped myself to be skilful in various analytical instrumentation such as UHPLC-FLD, LC-MS/MS, UPLC-QTOF-MS, GC-MS/MS, and HRMS along with sample preparation techniques including automated immunoaffinity column clean-up system for pesticide analysis and microbial metabolites such as mycotoxins.</i>

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree- Batchelors	Microbiology	Willingdon College Sangli, Shivaji University, Kolhapur, India	2013
Specialization	Microbiology		-
PhD	Microbiology	Shivaji University, Kolhapur, India	Spiral thesis submitted (May 2022)
Master	Microbiology	Yashwantrao Chavan College of Science, Karad, Shivaji University, Kolhapur, India	2015
Degree of medical specialization	-		
Degree of European specialization	-		
Other	National Eligibility Test	Agricultural Scientists Recruitment Board, Indian Council of Agricultural Research, The Government of India in 2016 for teaching in Indian universities in the discipline of Agricultural Microbiology.	2016
	FSSAI certified food analyst	FSSAI- 7 th Food analyst Examination in October 2021	2022



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
22 March 2022	Member of AOAC Expert Review Panel (ERP) for natural toxin methods for AOAC INTERNATIONAL	USA
23 March 2022	Member of International Fruit and Vegetable Juice Association (IFU), Paris.	Paris
25 April 2022	AOAC Southeast Asia Section.	-

FOREIGN LANGUAGES

Languages	level of knowledge
English	Proficient
German	Basic
Hindi	Proficient
Marathi	Proficient

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Sr. No	Year	Description of award
1.	2022	AOAC INTERNATIONAL/SCIEX Rising Star Award-2022 For the contribution in the research -The Rising Star Award, supported by contributions from SCIEX, is designed to encourage the integration of graduate students into AOAC INTERNATIONAL, with a focus on candidates with demonstrable potential to become thought leaders and scientific influencers in their respective field.
2.	2019	Best poster award, AOAC-India Section , at 6 th Annual Conference of India section of the AOAC INTERNATIONAL, New Delhi, India Presented the inovative reserch study- involving the ayutomatic in the mycotoxin analysis
3.	2018	Best poster award by the Royal Society of Chemistry , at 5 th Annual Conference of India section of the AOAC INTERNATIONAL, New Delhi, India Presented the novel research study- Decontamination of aflatoxins in your kitchen? Exploring household cooking techniques in controlling Aflatoxins (B1 and B2) in peanuts.
4.	2013-2015	G. N. RAMACHANDRAN Fellowship , Malhotra Wiekfield foundation Pune, India To assist and mentor meritorious students of science and technology towards achieving excellence in their academic and career goals, free from financial stress and burdens, with a special focus on assisting female scholars.
5.	2014	Best poster award at BIOCON Conference , at Shivaji university, Kolhapur, Maharashtra, India



TRAINING OR RESEARCH ACTIVITY

Sr. No.	description of activity
1.	Virtual Training Program: Introduction to Validation and Verification , Conducted by NABL, Gurugram, India (06/2020)
2.	Proficiency testing (PT) statistics as per ISO 13528:2015 , At National Referral Laboratory, ICAR -NRCG, Pune, (08/ 2019)
3.	Implementation of laboratory QSM as per ISO/IEC 17025:2017 and Internal Auditing , At National Referral Laboratory, ICAR -NRCG, Pune (08/2019)
4.	Workshop on detection of aflatoxins B & G in nuts and cereals , At Agri-Food & Veterinary Authority (AVA) Singapore (01/2019), <i>Organized by Global Food Safety Partnership (GFSP) and World Bank.</i>
5.	Workshop on Rapid Microbiological Methods for Food safety , Conducted by 3M Health care academy, At Pune, India (11/2018)
6.	Training programme on Laboratory Management & Internal Audit as per ISO/IEC 17025:05 , Organized by Confederation of Indian Industry at Mumbai (12/2017)
7.	Training on Single Residue Detection Method , Organized by EU-India, Capacity Building Initiative for Trade Development (CITD) at ICAR-NRCG, Pune, India (11/2017)
8.	Training on preparation to ISO 17043 Accreditation Analytical and instrumentation training Organized by EU-India , Capacity Building Initiative for Trade Development (CITD) At ICAR-NRCG, Pune India. (11/2016)
9.	Annual biotech training Programme , at Haffkine institute, Parel, Mumbai, India (06/2015)
10.	Training on instrumentation and analytical techniques , at Haffkine institute, Parel, Mumbai, India (07/2015)
11.	Laboratory management and food analysis course , at Yashwantrao, Chavan college of Science, Karad, India. (10/2015)



PROJECT ACTIVITY

Sr.No.	Name of Organizations	Output in Research (publications)
1.	Institute for Global Food Security, Queen's University, United Kingdom	4
2.	MassTech Inc., Columbia Gateway Drive, Columbia, MD	01
3.	R-Biopharm, Rhône Ltd. West of Scotland Science Park, Glasgow, Scotland	01
4.	Neogen, corporation, Kochi, India	In progress
5.	ICAR-Directorate of Medicinal and Aromatic Plants Research, Gujarat, India	01
6.	ICAR-Indian Grassland and Fodder Research Institute, Jhansi, India	02
7.	Shivaji University, Kolhapur, India	02
8.	ICAR-Central Institute of Fisheries Education, Mumbai, India	01
9.	Export Inspection agency, Kochi, India	In progress
10.	National Institute of Virology (NIV), Indian Council of Medical Research, Mumbai, India	Submitted

PATENTS

Patent

CONGRESSES AND SEMINARS

Sr. No	Date	Title	Place
1.	2022	Development of an Efficient Sample Preparation Workflow for the Determination Multi-Class Pesticides in Complex Matrices: Fatty Matrices. Presented <u>Flash Oral Presentation</u>	<i>in 2nd European Sample Preparation e-Conference, Germany.</i>
2.	2021	Attended a virtual conference "Recent advances in food analysis (RAFA-2021).	<i>held at University of Chemistry and technology, Prague during 3-4 November, 2021</i>
3.	2019	Automated Aflatoxin Analysis Using Online Reusable Immunoaffinity Column Cleanup and LC- Fluorescence Detection with derivatization. (<u>Poster presented</u>) Best poster award	<i>6th annual conference of the India section of AOAC INTERNATIONAL, New Delhi India.</i>
4.	2018	Simultaneous analysis of Aflatoxins and Ochraoxin A from food matrices by using UPLC-FLR. (<u>Poster presented</u>)	<i>Presented at 5th annual conference of the India section of AOAC INTERNATIONAL, New Delhi, India.</i>
5.	2018	Decontamination of aflatoxins in your kitchen? Exploring household cooking techniques in controlling Aflatoxins (B1 and B2) in peanuts (<u>Poster presented</u>)* Best poster award	<i>Presented at 5th annual conference of the India section of AOAC INTERNATIONAL, New Delhi, India.</i>
6.	2018	A novel method for difficult fungicides residue analysis in rice by UPLC-(ESI)-MS/MS. (<u>Poster presented</u>)	<i>Presented at 5th annual conference of the India section of AOAC INTERNATIONAL, New Delhi, India.</i>
7.	2018	Bioactive Potential of Grape Seed Oil based on its selective metabolite profile and in-vivo evaluation for Radiation Protection. (<u>Poster presented</u>)	<i>Presented at 5th annual conference of the India section of AOAC INTERNATIONAL, New Delhi, India.</i>



8.	2017	Profiling of grape seed oil: characterization as a functional food (<i>Poster presented by team member</i>)*	Presented at the 131 st AOAC Annual Meeting & Exposition in Atlanta, Georgia, USA.
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PUBLICATIONS

Sr. No.	Publications
1.	Dhanshetty M. , Thorat P., Banerjee K. (30 June, 2021). Verification and validation of a method for automated cleanup using reusable, online immunoaffinity, cartridge cleanup and liquid chromatography with fluorescence detection for analysis of aflatoxins in nuts, cereals and processed products. <i>Journal of AOAC INTERNATIONAL</i> , 104 (6), pp.1526-1532.
2.	Mahale V., Gupta M., Dhanshetty M. , Banerjee K., Bhattacharya N., Panchagnula V. (02 February, 2022) Rapid quantitative multiple reaction monitoring (MRM) analysis of aflatoxin M1 from milk with atmospheric pressure matrix-assisted laser desorption/ionization mass spectrometry (AP/MALDI). <i>Journal of AOAC INTERNATIONAL</i> , pp. 1-8.
3.	Dhanshetty M. & Mali G. (15 November, 2021). Isolation, characterization of aflatoxin producing fungi from contaminated peanut and rice, their fate on aflatoxin production. <i>YMER</i> .
4.	Shinde R., Anita P., Dhanshetty M. , Michelangelo A., Banerjee K. (30 August 2021) Development and validation of an analytical method for the multiresidue analysis of pesticides in sesame seeds using liquid- and gas chromatography with tandem mass spectrometry. <i>Journal of Chromatography A</i> , 1652, pp. 462346.
5.	Shinde R., Dhanshetty M. , Lakade A. Christopher T. Elliott., Banerjee K. (22 February 2021) Development and validation of a liquid chromatography tandem mass spectrometry method for the analysis of patulin in apple and apple juice. <i>Mycotoxin Research</i> , 37(2), pp.119-127.
6.	Dhanshetty M. , Elliott C., Banerjee K. (4 September 2020). Decontamination of aflatoxin B1 in peanuts using various cooking methods. <i>Journal of Food Science and Technology</i> , 58(7), pp. 2547-2554.
7.	Dhanshetty M. , Banerjee K. (3 December 2019) Simultaneous analysis of aflatoxins and ochratoxin A in cereals and their processed products by ultra-performance liquid chromatography with fluorescence detection. <i>Journal AOAC INTERNATIONAL</i> , 102(6), pp.1666-1672.
8.	Kumar A., Dhanshetty M. , Banerjee K. (12 March 2020) Development and Validation of a Method for Direct Analysis of Aflatoxins in Animal Feeds by Ultra-High-Performance Liquid Chromatography with Fluorescence Detection. <i>Journal of AOAC INTERNATIONAL</i> , 103(4), pp.940-945.
9.	Kumar A., Bhattacharyya A., Shinde R., Dhanshetty M. , Elliott C.T., Banerjee K. (13 September 2020) Development and validation of a multiresidue method for pesticides and selected veterinary drugs in animal feed using liquid-and gas chromatography with tandem mass spectrometry. <i>Journal of Chromatography A</i> , 1627, pp.461416.
10.	Shinde R., Shiragave P., Thorat P., Dhanshetty M. , Lakade A., Banerjee K., (12 February 2019)



	Determination of paraquat and diquat in pulses using LC-MS/MS and qualitative analysis by AP-MALDI-HRMS. <i>RJLBPCS</i> , pp: 308-315.
11.	Bhoite A., Gaikwad N., Sathe S., Banerjee K., Dhanshetty M. (11 November 2019) Fermentation studies on pomegranate and sweet lime blended juice. <i>Annals of food science and technology</i> , 20(4), pp.735-745.
12.	Oulkar D., Goon A., Dhanshetty M. , Khan z., Satav S., & Banerjee K. (26 December 2017) High-sensitivity direct analysis of aflatoxins in peanuts and cereal matrices by ultra-performance liquid chromatography with fluorescence detection involving a large volume flow cell. <i>Journal of Environmental Science and Health, Part B, Part B</i> , 53(4), pp.255-260.
13.	Pawar K., Dethe A., Mancharea R. Dhanshetty M. (February, 2022) Genetic diversity assessment of Soybean germplasm accessions using pod shattering-related SSR markers. Journal: <i>YMER</i> . 21(2), pp.315-331
14.	Dhanshetty M. & Mali G. Antagonistic effect of biocontrol agents on aflatoxin producing fungal isolates from contaminated peanuts. <i>Journal- World research journal of Biotechnology</i> (Accepted).
15.	Dhanshetty M. , Shinde R., Goon A., Oulkar D., Elliott C., Banerjee K. Simultaneous analysis of aflatoxins (B1, B2, G1, G2) and ochratoxin A in chilli by ultra-high-performance liquid chromatography with fluorescence detection. <i>Mycotoxin research</i> . (Accepted)
16.	Sarkar R., Shinde R., Dhanshetty M. , Banerjee K. Development and validation of a multi-mycotoxin analysis method in Indian medicinal herbs using liquid chromatography with tandem mass spectrometry and fluorescence detection. <i>Jornal of Chromatography A</i> . (Accepted)
17.	Jacob J., Dhanshetty M. , Thirunavukkarasar R., Krishnani K. High-throughput, simultaneous and direct analysis of aflatoxins and ochratoxin A in aqua feeds using ultrahigh performance liquid chromatography with fluorescence detection. <i>Journal of AOAC INTERNATIONAL</i> . (Submitted)
18.	Dhanshetty M. Rapid monitoring of SARS-CoV-2 on fruits and vegetables using reverse-transcription loop-mediated isothermal amplification (RT-LAMP) assay. <i>Journal of food sciences</i> (Submitted)

Articles in reviews
[title of the article, review, place, publishing house, year ...]

Sr. No.	Congress proceedings
1.	Analytical Method Development for Aflatoxins, Ochratoxin Analysis In Raisin (Dried Vine fruit) and Wine. <i>International Dialogue on Indian Viticulture: Way forward, held at Amanora fern, Pune, India, 15-16, November 2019.</i>
2.	In-Vitro Efficacy of Biological Agents against Aflatoxin Producing Fungi Isolated from Chilli, Peanut



	and Rice - Analysis with Ultra High Performance Liquid Chromatography with Fluorescence Detector (UHPLC-FLD). <i>National Conference of Plant Physiology-2021 (NCP-2021) organized by Indian Society for Plant Physiology, Baramati, Pune, India, 9 to 11 December 2021</i>
3.	Monitoring and safety evaluation of multi-residue pesticides in raisins and wines from India by GC-MS/MS and LC-MS/MS. Presented at <i>International Dialogue on Indian Viticulture: Way forward, held at Amanora fern, Pune, India during November 15-16, 2019.</i>

OTHER INFORMATION

Sr. No	Activity
1.	Published in Current Science Report , entitled as “ Processing Peanuts, Protection from aflatoxins ” Vol. 119, No. 7, 10 October 2020, pp: 1070.
2.	Published in Marathi newspaper - Agrowon , “शेंगदाण्यातील अफ्लाटॉक्सिन: घरगुती प्रातिबंधात्मक उपाययोजना (Aflatoxin in peanut: household decontamination method)”- dated on 15 January, 2022, pp. 11. (This article has written in Marathi language which provides the information about occurrence Aflatoxin decontamination in peanut by household cooking technique. Specially we have made it in Marathi language (mother tongue of Maharashtra state) to provide information to each and every common person of our society.
3.	FSSAI certified Master trainer for Mycotoxin analysis in food.
4.	Reviewer for a journal “Food Science and technology” from July 2019.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: Pune, India, 07/07/2022