

BIO-DATA

Name and full correspondence address: **Dr. Kamalesh Dattaram Mumbrekar**
Associate Professor
Department of Radiation Biology & Toxicology,
Manipal School of Life Sciences, Manipal
Academy of Higher Education (MAHE),
Manipal - 576 104, Karnataka, India

https://manipal.edu/sls-manipal/department-faculty/faculty-list/kamalesh-d-mumbrekar/_jcr_content.html

Email(s) and contact number(s) : kamalesh.m@manipal.edu
Mob: +919880100901

Date of Birth : 2nd August 1981

Academic Qualification

S.No	Degree	Year	Subject	University/Institution
1	Ph.D.	2016	Radiation Biology (<i>Cellular and molecular analysis of chemo-radiotherapy induced normal tissue toxicity in breast cancer patients</i>) Guide: Dr. Satish Rao B S	MAHE, Manipal, India
2	M.Sc.	2004	Applied Zoology	Mangalore University, Mangaluru, India

Work experience

S.No.	Positions held	Name of the Institute	From	To
1	Associate Professor	Department of Radiation Biology & Toxicology, Manipal School of Life Sciences, MAHE, Manipal	April 2022	Till date.
2	Assistant Professor	Department of Radiation Biology & Toxicology, Manipal School of Life Sciences, MAHE, Manipal	Oct. 2015	March 2022
3	Lecturer	Department of Radiation Biology & Toxicology, School of Life Sciences, MAHE, Manipal	Feb. 2008	Sept. 2015

Professional Award/Fellowship

S.No	Name of Award	Awarding Agency	Year
1	Mrs & Mr. MR Raju Award (career-based award)	Indian Society of Radiation Biology, India	2018
2	Early Career Research Award	SERB, Govt of India	2018
3	Young Scientist Award	Indian Society for Radiation Biology, India	2016
4	Young Scientist Award (career-based award)	Society of Radiation Research, India	2016

Publications (selected)

[Dr. Kamalesh D. Mumbrekar - Google Scholar](#)

- Babu Santhi Venkidesh, Rekha Koravadi Narasimhamurthy, Apoorva Jnana, Dinesh Reghunathan, Krishna Sharan, Srinidhi Gururajaroo Chandraguthi, Mehreen Saigal, Thokur Sreepathy Murali, Kamalesh Dattaram **Mumbrekar**. Pelvic irradiation induces behavioural and neuronal damage through gut dysbiosis in a rat model. *Chemico-Biological Interactions*, under revision 2023 (Q1, IF-5.1)
- Rekha Koravadi Narasimhamurthy, Venkidesh Babu Santhi, Sangeetha Nayak, Dinesh Reghunathan, Sandeep Mallya, Krishna Sharan, Bola Sadashiva Satish Rao, Kamalesh Dattaram **Mumbrekar**. Low-dose exposure to malathion and radiation results in the dysregulation of multiple neuronal processes, inducing neurotoxicity and neurodegeneration in the mouse hippocampus. *Environmental Science and Pollution Research*. under revision 2023 (Q1, IF-5.8)
- S Shruthi, Kamalesh D. **Mumbrekar**; B.S. Satish Rao, Bhasker Shenoy, Gallic acid: a polyphenolic compound potentiates the therapeutic efficacy of cisplatin in human breast cancer cells, *Toxicology Research*, 2023; tfad041, <https://doi.org/10.1093/toxres/tfad041> (Q2, IF-2.68)
- Venkidesh BS, Shankar SR, Narasimhamurthy RK, Rao SBS, **Mumbrekar** KD. Radioprotective potential of probiotics against gastrointestinal and neuronal toxicity: a preclinical study. *Clin Transl Oncol*. 2023 Apr 18. doi: 10.1007/s12094-023-03184-8. Epub ahead of print. PMID: 37071338. (Q2; IF-3.34).
- Swer NM, Venkidesh BS, Murali TS, **Mumbrekar** KD. Gut microbiota-derived metabolites and their importance in neurological disorders. *Mol Biol Rep*. 2023 Feb;50(2):1663-1675. (Q3; IF 2.74).

- Kuthethur R, Adiga D, Kandettu A, Jerome MS, Mallya S, **Mumbrekar** KD, Kabekkodu SP, Chakrabarty S. MiR-4521 perturbs FOXM1-mediated DNA damage response in breast cancer. *Front Mol Biosci.* (10) 2023 Mar 21; 10:1131433. doi: 10.3389/fmolb.2023.1131433. (Q2, IF 6.11).
- Narasimhamurthy RK, Andrade D, **Mumbrekar** KD. Modulation of CREB and its associated upstream signaling pathways in pesticide-induced neurotoxicity. *Mol Cell Biochem.* 2022 Nov;477(11):2581-2593. doi: 10.1007/s11010-022-04472-7. (Q2, IF3.39)
- Rekha K N, Kamalesh D **Mumbrekar*** and Satish Rao BS. Effects of Low dose ionizing radiation on the brain- a functional, cellular, and molecular perspective, *Toxicology.* 2022 Jan 15; 465:153030. doi: 10.1016/j.tox.2021.153030. (Q1, IF 4.2).
- Ahmed AZ, **Mumbrekar** KD, Satyam SM, Shetty P, D'Souza MR, Singh VK. Chia Seed Oil Ameliorates Doxorubicin-Induced Cardiotoxicity in Female Wistar Rats: An Electrocardiographic, Biochemical and Histopathological Approach. *Cardiovasc Toxicol.* 2021 Jul;21(7):533-542. (Q1, IF-2.29).
- Joseph NT, Shankar SR, Narasimhamurthy RK, Rao SBS, **Mumbrekar** KD*. Bi-Directional interactions between microbiota and ionizing radiation in head and neck and pelvic radiotherapy - clinical relevance. *Int J Radiat Biol.* 2020 Aug;96(8):961-971. (Q2, IF- 2.27).
- Nayak AA, **Mumbrekar** KD, Rao BSS. Pharmacological approach to increasing the retention of radiation-induced γ -H2AX foci using phosphatase inhibitors: significance in radiation biodosimetry. *J Radiol Prot.* 2018 Feb 15;38(1):318-328. (Q2, IF-1.657).

Expertise: Dr. Kamalesh D.M has been working in experimental radiation oncology related to understanding the effect of radiation on cells and tissues and its genetic basis. He has sixteen years of experience in radiation response to normal tissue toxicity, developing DNA repair-based predictive markers for radiotherapy outcomes, and environmental agent-induced biological effects. Currently, the focus is on the influence of environmental toxicants/ radiation on gut microbiota and neurological consequences. He was a part of studies looking into population radio-genomics, radiotherapy outcome prediction, low-dose ionizing radiation-induced neurotoxicity, and radiation biodosimetry.