

Faculty Profile

Name: Dr. Manjari Singh
Designation: Assistant Professor
Department/ Centre: Pharmaceutical Sciences

Phone Numbers: 7599211639

Email id: manjari.pharm@gmail.com

Educational Qualifications: PhD

Areas of Interest: Cancer Biology, Tumor Microenvironment,
Molecular Biology, Mammalian Cell culture, In silico drug design



Work Experience: [In chronological order with the recent one at the last.]

Name of the Organization	Designation	Period		Nature of Post (Permanent/Temporary/Ad-hoc, Contractual etc.)
		From	To	
KIET Group of Institutions, Ghaziabad	Assistant Professor	July 2018	Sep 2019	Permanent
Assam University	Assistant Professor	Nov 2019	Till Now	Permanent

Awards and Honors (if any): [Maximum up to 5] [In chronological order, with the recent one at the last.]

Award Details	Awarding Agency	Year	Remark (if any)
GPAT 2011	AICTE	2011	
GPAT 2013	AICTE	2013	
UGC-RGNF	UGC	2014	

Projects: [In chronological order with the recent one at the last. Mention shall be made if the project is ongoing or completed]

Project Title	Awarding Agency	Period	Amount Sanctioned	Ongoing/ Completed
In vitro breast cancer disease model: A redefined translational tool to accelerate pharmaceutical drug screening	DST-SERB	24 months	30 lakhs	Completed

<i>In silico</i> and <i>in vitro</i> identification of small molecule prolyl hydroxylase-2 activator for modulation of hypoxia inducible factor-1 α signaling in estrogen receptor + breast cancer	ASTEC, DST Govt. of Assam	24 months	6 lakhs	Completed
Overcoming ER+ breast cancer therapeutic bottleneck by combinatorial PDE repurposing: A computational and <i>in vitro</i> intervention	UGC- BSR	24 months	10 lakhs	Completed

Consultancy/International Collaboration: [In chronological order, with the recent one at the last.]

Details	Year	Remark (if any)

Publications in Peer-Reviewed Scopus Indexed Journals (Maximum 7)

Authors	Title of the Paper	Name of Journal	Journal details	ISSN
Kamare Alam, Lakshmi Nair, Souvik Mukherjee, Kulwinder Kaur, Manjari Singh , Santanu Kaity, Velayutham Ravichandiran, Sugato Banerjee & Subhadeep Roy	Cellular interplay to 3D in vitro microphysiological disease model: cell patterning microbiota–gut–brain axis	Bio-Design and Manufacturing	Volume 7, pages 320–357 (2024)	2522-8552
Tanima Dey, Anushikha Ghosh, Arka Sanyal, Chelsea Josephine Charles, Sahas Pokharel, Lakshmi Nair, Manjari Singh , Santanu Kaity, Velayutham Ravichandiran, Kulwinder Kaur and Subhadeep Roy	Surface engineered nanodiamonds: mechanistic intervention in biomedical applications for diagnosis and treatment of cancer	Biomedical Materials	Volume 19, Number 3, 2024	1748-605X
Lakshmi Nair, Souvik Mukherjee, Kulwinder Kaur, Ciara M. Murph, Velayutham Ravichandiran, Subhadeep Roy, Manjari Singh	Multi compartmental 3D breast cancer disease model–recapitulating tumor complexity in in-vitro	Biochimica et Biophysica Acta (BBA) - General Subjects	Volume 1867, Issue 6, June 2023, 130361	1872-8006
Lakhveer Singh, Lakshmi Nair, Dinesh Kumar, Mandeep	Hypoxia induced lactate acidosis	Frontiers in Oncology	Volume 13 - 2023	2234-943X

Kumar Arora, Sakshi Bajaj, Manoj Gadewar, Shashank Shekher Mishra, Santosh Kumar Rath, Gaurav Kaithwas, Manjari Singh	modulates tumor microenvironment and lipid reprogramming to sustain the cancer cell survival			
Lakhveer Singh, Sakshi Bajaj, Manoj Gadewar, Nitin Verma, Mohd Nazam Ansari, Abdulaziz S. Saeedan, Gaurav Kaithwas, Manjari Singh	Modulation of Host Immune Response Is an Alternative Strategy to Combat SARS-CoV-2 Pathogenesis	Frontiers in Immunology	Volume 12 - 2021	1664-3224
Souvik Mukerjee, Abdulaziz S. Saeedan, Mohd. Nazam Ansari and Manjari Singh	Polyunsaturated Fatty Acids Mediated Regulation of Membrane Biochemistry and Tumor Cell Membrane Integrity	MDPI membranes	2021, 11(7), 479	2077-0375
Manjari Singh , Uma Devi, Subhadeep Roy, Pushpraj S. Gupta, Gaurav Kaithwas	Chemical activation of prolyl hydroxylase-2 by BBAP-1 down regulates hypoxia inducible factor-1 α and fatty acid synthase for mammary gland chemoprevention	RSC Advances	Volume 8, Issue 23 05 April 2018	2046-2069

Contributed Book Chapters Published in Edited Books of Reputed Publishers (Maximum 5)

Authors	Title of the Chapter	Name of the Book	Book Details	ISBN
Abdulaziz Bin Saeedan Hajir A. Al-Saihati*, Masha'el Al-Toub, Hanaa I. Sharaf, Manjari Singh , Mohd. Nazam Ansari	Cell Signaling Pathways in Cancer	Molecular Targets and Cancer Therapeutics	242-272 Publisher Bentham Science, 2023	978-981-5080-38-4
Geeta Aggarwal, Gaurav Kaithwas, Manjari Singh & Ramesh K. Goyal	Organ-on-a-Chip: Novel In Vitro Model for Drug Discovery	Biomedical Translational Research	29 July 2022 Publisher Name Springer, Singapore	978-981-16-9231-4
Manjari Singh	Mechanistic and	Handbook of	Published	978-981-

and Gaurav Kaithwas	Therapeutic Crosstalk of Lipid Peroxidation in Oxidative Stress and Breast Cancer	Oxidative Stress in Cancer: Therapeutic Aspects	18 May 2022 Publisher Name Springer, Singapore	16-1247-3
Sapna Jain, Manjari Singh	Engineering of Extracellular Vesicles as Nano Therapy for Breast Cancer	Extracellular Vesicles: Role in Diseases, Pathogenesis and Therapy	2022/7/20	978-1-80355-055-8

Peer-reviewed publications in Proceedings of National/ International Conference/Workshop/ Symposium (Maximum 5)

Authors	Title of the Paper	Name of the Program And Organizer	Publisher Details	ISBN/ISSN

Patents/ Policy Document (Maximum 5)

Title of Patent	Patent No. & Granting Authority	Date of Award	International/ National