



VIDYASAGAR COLLEGE

39 SANKAR GHOSH LANE
KOLKATA

Name: Dr Minakshi Mazumdar

1	Name	Dr MINAKSHI MAZUMDAR		
2	Designation	STATE AIDED COLLEGE TEACHER I (SACT-I)		
3	Mail ID	Minakshi.mazumdar@gmail.com		
4	Contact No	9830554095/9830994095		
5	Date of Joining	19 th September, 2014		
Academic qualifications				
6	Degree	Subject	University	Year
	Ph.D	ZOOLOGY	R.T.M. NAGPUR UNIVERSITY	2008
	M.Phil	NA	NA	NA
	MA/M.sc	ZOOLOGY	UNIVERSITY OF CALCUUTA	2002
	BA/B.Sc	ZOOLOGY	UNIVERSITY OF CALCUUTA	2000
PH.D. DETAILS				
7	Title of the Thesis	Role of Neuropeptide-Y in Regulation of Reproduction in <i>Clarias batrachus</i> (Linn.)		
	Field of specialization under subject/ discipline	Cancer Biology, Fish Endocrinology, Parasitology and Immunology		
8	PREVIOUS POSITIONS/Engagement	Research Associate (DBT-RA) in Department of Medicine, Bose Institute, Kolkata		
9	Google scholar page:	-		
10	ORCID ID	https://orcid.org/0009-0005-8794-8631		
11	HONOURS AND AWARDS			
12	CURRENT RESEARCH PROJECT/Field of Research	Cancer Biology and Immunology		
13	TECHNICAL UNDERSTANDING AND EXPERIENCE	Cell & Tissue culture: Culture of various cancer cell lines & normal fibroblast cells, primary culture of circulating T cells from peripheral mononuclear cells. Instrumentation: Spectrophotometer, Phase contrast microscope, Confocal microscopy, Fluorescent microscopy, Transmission and scanning electron microscopy, Immunoelectron microscopy cryocan, PAGE & DNA Gel apparatus, Flowcytometer, Sonicator, Fluorimeter, Microtome and Cryostat sectioning, photomicrography. Molecular Biology: DNA extraction, RNA extraction, PCR, cDNA and siRNA-transfection in mammalian cell line, Transformation of plasmid in <i>E. coli</i>, Gene cloning, Promoter cloning and CHIP assay. Immunology: Immunogel Diffusion, Immunogel electrophoresis, Isolation of peripheral mononuclear cells from blood, Macrophage isolation, Western Blot, Co- immunoprecipitation, Single as well as double immunocytochemistry (Slides and floating sections).		

		ELISA study in situ hybridization, histochemistry. Flowcytometry Techniques: DNA Cell Cycle Analysis, Apoptosis detection assay, T cell proliferation assay, Immuno-phenotyping of T cells, different subsets of T-regulatory cells, cell sorting. Purification: Chromatography, Electrophoresis. Experimental Animal Handling: Capable of handling laboratory Mice, Rat including drug administration through different route and tissue collection.
14	SUMMARY OF RESEARCH EXPERIENCE	<i>Post-doctoral Research:</i> Project Title: <i>Targeting cancer stem cells: A mechanistic approach towards induction of apoptosis and inhibition of migration</i> Project Sponsor: DBT, New Delhi Guide: Prof. Tanya Das Bose Institute, Kolkata (2009-2014) <i>Extended SRF/RA:</i> Project Sponsor: Bose Institute, Kolkata. (Institute Fellow) Project Title: <i>Targeting RET to induce apoptosis in Medullary Thyroid Cancer</i> Guide: Prof. Arun Kumar Ray Division of Molecular Medicine, Bose Institute, Kolkata (2008-2009) <i>Predoctoral Work:</i> <i>Senior Research Fellow</i> Project Title: <i>GnRH in the brain of the the major carp, Cirrhinus mrigala and the catfish, Clarias batrachus: in situ hybridization study</i> Project Sponsor: ICAR, New Delhi Guide: Prof. Nishikant K. Subhedar R.T.M Nagpur University, Nagpur (2003-2006)
15	EXPERIENCE OF PROJECT MANAGEMENT	1) Successfully completed DBT-sponsored Research project as Research Associate in Department of Molecular Medicine, Bose Institute, Kolkata 2) Successfully completed ICAR-sponsored Research project as Senior Research Fellow in Department of Pharmaceutical Sciences, R. T. M. Nagpur University, Nagpur.
16	COMPLETE LIST OF PUBLICATIONS	1. Paul, T., Mandal, J., Dasgupta, M., Sarkar, G., Karmakar, D., Kundu, G. and Mazumdar, M., 2018. A Preliminary Study on

	(Maintain Harvard Format)	Prevalence of Parasites in Ornamental Fish, <i>Carassius auratus</i> (Gold Fish). International Journal of Engineering, Science and Mathematics, 7(4), pp.74-83. 2. Sarkar, P., Mazumdar, M., and Bhowal A. 2016. Identifying Causal Gene For Various HIV Associated Encephalopathy Through Meta-Analysis Of Gene Expression Data. In: BIOPHYSICS: Impact On Today's Society. Pg. no. 63-70. 3. Mazumdar, M., De, A., Islam, M., Paul, T., Islam, A., Karmakar, D., and Sadhukhan, G.C., 2016. A Comparative Study On The Prevalence And Evolutionary Significance Of Some Species Of <i>Raillietina</i> From <i>Gallus gallus domesticus</i>. In: Biophysics: Impact On Today's Society. Pg. No.151-163. 4. Karmakar, D., Roy, S., Mazumdar, M., De, A., Kundu, G., and Sadhukhan, G.C., 2016. Comparative Analysis Of Feeding Intensity Of Three Congeneric Carp Fishes Commonly Found In West Bengal From Anatomical, Histological, Biochemical And Genetic Perspective – A Preliminary Study. In: Biophysics: Impact On Today's Society. Pg. no.- 81-89. 5. Khan, P., Manna, A., Saha, S., Mohanty, S., Mukherjee, S., Mazumdar, M., Guha, D. and Das, T., 2016. Aspirin inhibits epithelial-to-mesenchymal transition and migration of oncogenic K-ras-expressing non-small cell lung carcinoma cells by down-regulating E-cadherin repressor Slug. BMC cancer, 16, pp.1-18. 6. Bhattacharya, S., Ahir, M., Patra, P., Mukherjee, S., Ghosh, S., Mazumdar, M., Chattopadhyay, S., Das, T., Chattopadhyay, D. and Adhikary, A., 2015. PEGylated-thymoquinone-nanoparticle mediated retardation of breast cancer cell migration by deregulation of cytoskeletal actin polymerization through miR-34a. Biomaterials, 51, pp.91-107. 7. Ghosh, S., Adhikary, A., Chakraborty, S., Bhattacharjee, P., Mazumdar, M., Putatunda, S., Gorain, M., Chakraborty, A., Kundu, G.C., Das, T. and Sen, P.C., 2015. Cross-talk between endoplasmic reticulum (ER) stress and the MEK/ERK pathway potentiates apoptosis in human triple negative breast carcinoma cells: role of a dihydropyrimidone, nifetepimine. Journal of Biological Chemistry, 290(7), pp.3936-3949. 8. Saha, S., Mukherjee, S., Mazumdar, M., Manna, A., Khan, P., Adhikary, A., Kajal, K., Jana, D., Sa, G., Mukherjee, S. and Sarkar, D.K., 2015. Mithramycin A sensitizes therapy-resistant breast cancer stem cells toward genotoxic drug doxorubicin. Translational Research, 165(5), pp.558-577. 9. Mukherjee, S., Saha, S., Manna, A., Mazumdar, M., Chakraborty, S., Paul, S. and Das, T., 2014. Targeting Cancer Stem Cells by Phytochemicals: A Multimodal Approach to Colorectal Cancer. Current Colorectal Cancer Reports, 10, pp.431-441. 10. Mukherjee, S., Manna, A., Mazumdar, M. and Das, T., 2014. Matrix metalloproteinases in cancer metastasis: An unsolved mystery. Role of Proteases in Cellular Dysfunction,
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	pp.187-212. 11. Mukherjee, S., Mazumdar, M., Chakraborty, S., Manna, A., Saha, S., Khan, P., Bhattacharjee, P., Guha, D., Adhikary, A., Mukherjee, S. and Das, T., 2014. Curcumin inhibits breast cancer stem cell migration by amplifying the E-cadherin/β-catenin negative feedback loop. <i>Stem cell research & therapy</i>, 5, pp.1-19. 12. Adhikary, A., Chakraborty, S., Mazumdar, M., Ghosh, S., Mukherjee, S., Manna, A., Mohanty, S., Nakka, K.K., Joshi, S., De, A. and Chattopadhyay, S., 2014. Inhibition of epithelial to mesenchymal transition by E-cadherin up-regulation via repression of slug transcription and inhibition of E-cadherin degradation: dual role of scaffold/matrix attachment region-binding protein 1 (SMAR1) in breast cancer cells. <i>Journal of Biological Chemistry</i>, 289(37), pp.25431-25444. 13. Chakraborty, S., Adhikary, A., Mazumdar, M., Mukherjee, S., Bhattacharjee, P., Guha, D., Choudhuri, T., Chattopadhyay, S., Sa, G., Sen, A. and Das, T., 2014. Capsaicin-induced activation of p53-SMAR1 auto-regulatory loop down-regulates VEGF in non-small cell lung cancer to restrain angiogenesis. <i>PloS one</i>, 9(6), p.e99743. 14. Chakraborty, S., Mazumdar, M., Mukherjee, S., Bhattacharjee, P., Adhikary, A., Manna, A., Chakraborty, S., Khan, P., Sen, A. and Das, T., 2014. Restoration of p53/miR-34a regulatory axis decreases survival advantage and ensures Bax-dependent apoptosis of non-small cell lung carcinoma cells. <i>FEBS letters</i>, 588(4), pp.549-559. 15. Bhattacharjee, P., Mazumdar, M., Guha, D. and Sa, G., 2014. Ubiquitin–proteasome system in the hallmarks of cancer. <i>Role of Proteases in Cellular Dysfunction</i>, pp.159-186. 16. Mazumdar, M., Adhikary, A., Chakraborty, S., Mukherjee, S., Manna, A., Saha, S., Mohanty, S., Dutta, A., Bhattacharjee, P., Ray, P. and Chattopadhyay, S., 2013. Targeting RET to induce medullary thyroid cancer cell apoptosis: an antagonistic interplay between PI3K/Akt and p38MAPK/caspase-8 pathways. <i>Apoptosis</i>, 18, pp.589-604. 17. Saha, B., Adhikary, A., Ray, P., Saha, S., Chakraborty, S., Mohanty, S., Das, K., Mukherjee, S., Mazumdar, M., Lahiri, L. and Hossain, D.M.S., 2012. Restoration of tumor suppressor p53 by differentially regulating pro-and anti-p53 networks in HPV-18-infected cervical cancer cells. <i>Oncogene</i>, 31(2), pp.173-186. 18. Das, T., Sa, G., Saha, S., Mukherjee, S., Mazumdar, M. and Mukherjee, S., 2010. p53, a tumor suppressor at the crossroads of the oncogenic networks in cancer: Targeting the ‘guardian of the genome’. <i>Prospective in Cytology & Genet</i>, 14. 19. Barsagade, V.G., Mazumdar, M., Singru, P.S., Thim, L., Clausen, J.T. and Subhedar, N., 2010. Reproductive phase-related variations in cocaine-and amphetamine-regulated transcript (CART) in the olfactory system, forebrain, and
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		pituitary of the female catfish, <i>Clarias batrachus</i> (Linn.). Journal of Comparative Neurology, 518(13), pp.2503-2524. 20. Sakharkar, A.J., Mazumdar, M., Singru, P.S. and Subhedar, N., 2008. Neurosecretory neurons of the nucleus preopticus (NPO) express salmon GnRH mRNA and show reproduction phase-related variation in the female Indian major carp, <i>Cirrhinus cirrhosus</i>. Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology, 151(2), pp.247-252. 21. Singru, P.S., Mazumdar, M., Barsagade, V., Lechan, R.M., Thim, L., Clausen, J.T. and Subhedar, N., 2008. Association of cocaine-and amphetamine-regulated transcript and neuropeptide Y in the forebrain and pituitary of the catfish, <i>Clarias batrachus</i>: a double immunofluorescent labeling study. Journal of Chemical Neuroanatomy, 36(3-4), pp.239-250. 22. Mazumdar, M., Sakharkar, A.J., Singru, P.S. and Subhedar, N., 2007. Reproduction phase-related variations in neuropeptide Y immunoreactivity in the olfactory system, forebrain, and pituitary of the female catfish, <i>Clarias batrachus</i> (Linn.). Journal of Comparative Neurology, 504(5), pp.450-469. 23. Mazumdar, M., Lal, B., Sakharkar, A.J., Deshmukh, M., Singru, P.S. and Subhedar, N., 2006. Involvement of neuropeptide Y Y1 receptors in the regulation of LH and GH cells in the pituitary of the catfish, <i>Clarias batrachus</i>: an immunocytochemical study. General and comparative endocrinology, 149(2), pp.190-196. 24. Sakharkar, A.J., Singru, P.S., Mazumdar, M. and Subhedar, N., 2006. Reproduction phase-related expression of β-endorphin-like immunoreactivity in the nucleus lateralis tuberis of the female Indian major carp <i>Cirrhinus mrigala</i>: correlation with the luteinising hormone cells-ovary axis. Journal of neuroendocrinology, 18(5), pp.319-329. 25. Mazumdar, M., Singru, P., Sakharkar, A., Deshmukh, M. and Subhedar, N., 2005. Glucagon-like peptide-1 (GLP-1) immunoreactivity in the forebrain and pituitary of the teleost, <i>Clarias batrachus</i> (Linn.). Fish physiology and biochemistry, 31, pp.173-176.
17	Extracurricular Activities	
18	Link to personal website (if any)	NA