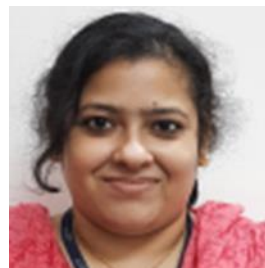


Dr. Sudeshna Mukherjee, PhD

Curriculum vitae

CURRENT POSITION: Assistant Professor II, Amity Institute of Physiology and Allied Sciences, Amity University, Noida, Uttar Pradesh, Sector-125, Noida – 201313



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Complete postal address: Amity Institute of Physiology and Allied Sciences (AIPAS), Amity University, Noida, Uttar Pradesh, Sector-125, Noida – 201313

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Permanent residence: Flat D2, N.G.C.H.S.L, 8, S.N. Chatterjee Road, Kolkata-700038

Academic qualification:

Examination/ Degree	University	Subjects	Percentage of Marks/Class	Year of Passing
Ph.D.	University of Calcutta	Physiology		2016
M.Sc. (Part I & Part II)	University of Calcutta	Human Physiology (Specialization- Biochemistry)	65.8%/ First Class	2009
B.Sc. (Hons.) (Part I & Part II)	University of Calcutta	Physiology (Hons.), General Subjects- Zoology, Chemistry	63.4%/First Class	2007

Research/Training Experience

Sl No.	Institution Place	Position	From (Date)	To (Date)
1.	Amity Institute of Physiology and Allied Sciences (AIPAS), Amity University, Noida	Assistant Professor II	17.05.2022	Till date
2.	University of Calcutta, Department of Physiology, 92, APC Road, Kolkata-700009	Research Associate	August, 2021	12.05.2022
2.	Chittaranjan National Cancer Institute, 37, S.P. Mukherjee Road,	National Post-Doctoral Fellow	March 2017	March 2019

	Kolkata-700 026			
3.	University of Calcutta, Department of Physiology, 92, APC Road, Kolkata-700009	DST-PURSE SRF	February, 2014	January, 2015
4.	University of Calcutta, Department of Physiology, 92, APC Road, Kolkata-700009	Project Fellow	February, 2011	January, 2014

Thesis work: Concerted Modulation Of Anti-Oxidant, Anti-Inflammatory And Anti-Tumor Signalling Pathways In Cancer: Evaluation Of The Role Of Certain Dietary Polyphenols, Department of Physiology, University of Calcutta

Post Graduate project work: Development of Monovalent Antisera against *Bungarus fasciatus* (Banded Krait) venom and its Neutralization potential under the supervision of Prof. Antony Gomes, Department of Physiology, University of Calcutta

Teaching experience:

1. **Delivered series of lectures to the special paper Nutrition and Dietetics and Molecular Cell Biology students in the Department of Physiology, University of Calcutta,** Kolkata for the sessions 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2022.
2. **Part-time lecturer in Physiology in the Dept. of Food & Nutrition and Zoology** from August 2009 to August 2010 at Budge Budge College (undergraduate college affiliated to University Of Calcutta), Kolkata.

Editorial and content writing work experience:

1. Consultant Medical Writer at CLIRNET from 16.09.2020 to 12.05.2022.
2. Editorial assistant at Chayya Prakasani for 3 months (June 2016-August 2016).

Research Techniques known:

- a. **Animal handling:**
 - i. Handling of Swiss albino mice, Balb/c Mice, C57BL/6 mice and rabbit during the tenure of postdoctoral, doctoral and master's program
 - ii. Development of different toxicity models
 - iii. Development of different tumor models
- b. **Immunology techniques:**
 - i. Development of antibodies in rabbits through immunization
 - ii. Various immunological techniques including immunodiffusion, Immunoelectrophoresis, Immunohistochemistry, ELISA, Immunophenotyping of different immunological markers by flow cytometry
- c. **Biochemical assays:**
 - i. Biochemical assay of different clinically relevant parameters
 - ii. Study of enzyme kinetics
- d. **Molecular Biology:**
 - i. Different types of electrophoresis including SDS-PAGE, Agarose gel electrophoresis, Western blotting, co-immunoprecipitation
 - ii. mRNA isolation, Reverse Transcriptase PCR, Real time PCR technique
 - iii. Evaluation of miRNA expression by RT-PCR
 - iv. Flow cytometry, fluorescence microscopy, confocal microscopy, Scanning electron microscopy

- v. Transfection studies using siRNA
- e. Cell culture studies**
 - i. Primary cell culture
 - ii. Maintenance of primary and cell lines
 - iii. Different cell culture techniques
- f. Preparation and characterisation of nanoparticles**
 - i. Preparation of nanoparticles of different phytochemicals/micronutrients/drugs using different methods including green synthesis
 - ii. Characterisation of nanoparticles, *in vitro* cellular uptake of nanoparticles, evaluation of biochemical properties of nanoparticles, evaluation of biological activities of nanoparticles and assessment of in-vivo toxicity of nanoparticles

Major scientific fields of interest

- **Cancer Biology**
 - Development and characterization of selective anti-cancer drugs from natural sources. Assessment of the molecular basis of their mechanism of action
 - Evaluation of targeted alteration of signaling molecules to induce apoptosis, retard metastasis, alter epithelial to mesenchymal transition and cellular metabolism in cancer cells and cancer stem cells
 - Evaluation of the role of tumor derived products in modulating inflammation, cancer cell signalling and immunosuppression
- **Inflammation**
 - Studies on signaling events of the inflammatory pathways and intersection with carcinogenesis
 - Understanding the relationship and interplay between inflammation and diseases
 - Approach towards modulating inflammation towards management of major diseases
- **Toxicology**
 - Studies on signaling events in animals following exposure to environmental toxicants.
 - Amelioration of toxicant-induced damage using food-derived phytochemicals
- **Nanobiotechnology**
 - Designing Nano-delivery/Nano-encapsulation systems using dietary antioxidants and purified compounds from dietary polyphenols and Characterization and evaluation of the activity in biological systems

List of publications

Orcid id: 0000-0001-5349-4882

Number of published papers in international peer reviewed journals-14

h index: 10

i10 index: 11

1. **Mukherjee S**, Ghosh S, Choudhury S, Gupta P, Adhikary A, Chattopadhyay S, Pomegranate polyphenols attenuate inflammation and hepatic damage in tumor bearing

- mice: Crucial role of NF- κ B and Nrf2/GSH axis. **J Nutr Biochem.** 2021;**97**:108812. (**Impact factor: 6.05**) (ISSN Number: 0898-6568)
2. Ghosh S, Choudhury S, Chowdhury O, **Mukherjee S**, Das A, Sain A, Gupta P, Adhikary A, Chattopadhyay S. Inflammation-induced behavioral changes is driven by alterations in Nrf2-dependent apoptosis and autophagy in mouse hippocampus: Role of fluoxetine. **Cell Signal.** 2020; 68:109521. (**Impact factor: 4.315**) (ISSN Number: 0898-6568)
 3. Gupta P, Choudhury S, Ghosh S, **Mukherjee S**, Chowdhury O, Sain A, Chattopadhyay, Dietary pomegranate supplement alleviates murine pancreatitis by modulating Nrf2-p21 interaction and directing apoptosis to survival switch. **J Nutr Biochem.** 2019; 66:17-28. (**Impact factor: 6.05**) (ISSN Number: 0955-2863)
 4. Ghosh S, Choudhury S, **Mukherjee S**, Gupta P, Chowdhury O, Baral R, Chattopadhyay S, Fluoxetine triggers selective apoptosis in inflammation-induced proliferating (Ki-67high) thymocytes. **Immunol Cell Biol.** 2019; 1-15. (**Impact factor: 5.13**) (ISSN Number: 0818-9641)
 5. Choudhury S, Ghosh S, **Mukherjee S**, Gupta P, Bhattacharya S, Adhikary A, Chattopadhyay S. Pomegranate protects against arsenic-induced p53-dependent ROS-mediated inflammation and apoptosis in liver cells. **J Nutr Biochem.** 2016; 38:25-40. (**Impact factor: 6.05**) (ISSN Number: 0955-2863)
 6. Choudhury S, Gupta P, Ghosh S, **Mukherjee S**, Chakraborty P, Chatterji U, Chattopadhyay S. Arsenic-induced dose-dependent modulation of the NF- κ B/IL-6 axis in thymocytes triggers differential immune responses. **Toxicology.** 2016; 357:85-96. (**Impact factor: 4.22**) (ISSN Number: 0300-483X)
 7. Ahir M, Bhattacharya S, Karmakar S, Mukhopadhyay A, **Mukherjee S**, Ghosh S, Chattopadhyay S, Patra P, Adhikary A. Tailored-CuO-Nanowire decorated with Folic acid mediated coupling of the mitochondrial ROS-generation and miR425-PTEN axis in furnishing potent anti-cancer activity in human triple negative breast carcinoma cells. **Biomater.** 2016; 76:115-32. (**Impact factor: 12.48**) (ISSN Number: 0142-9612)
 8. **Mukherjee S**, Ghosh S, Das DK, Chakraborty P, Choudhury S, Gupta P, Adhikary A, Dey S, Chattopadhyay S. Gold-conjugated green tea nanoparticles for enhanced anti-tumor activities and hepatoprotection - synthesis, characterization and in vitro evaluation. **J Nutr Biochem.** 2015; 26:1283-97. (**Impact factor: 6.05**) (ISSN Number: 0955-2863)
 9. Choudhury S, Ghosh S, Gupta P, **Mukherjee S**, Chattopadhyay S. Inflammation-induced ROS generation causes pancreatic cell death through modulation of Nrf2-NF- κ B and SAPK/JNK pathway. **Free Radic Res.** 2015; 14:1-13. (**Impact factor: 3.61**) (ISSN Number: 1071-5762 (print) 1029-2470 (web))
 10. Adhikary J, Kundu P, Dasgupta S, **Mukherjee S**, Chattopadhyay S, Aullon G, Das D. Nickel (II) complexes having different configurations controlled by N, N, and O-donor Schiff-base ligands in presence of isothiocyanate as co-ligand: Synthesis, structures, comparative biological activity and DFT study. **Polyhedron** 2015; 101:93-102. (**Impact factor: 3.052**) (ISSN Number: 0277-5387)
 11. Patra P, Mitra S, Das Gupta A, Pradhan S, Bhattacharya S, Ahir M, **Mukherjee S**, Sarkar S, Roy S, Chattopadhyay S, Adhikary A, Goswami A, Chattopadhyay D. Simple synthesis of biocompatible biotinylated porous hexagonal ZnO nanodisc for targeted doxorubicin delivery against breast cancer cell: In vitro and in vivo cytotoxic potential. **Colloids Surf B Biointerfaces.** 2015; 133:88-98. (**Impact factor: 5.268**) (ISSN Number: 0927-7765)
 12. Ghosh S, **Mukherjee S**, Choudhury S, Gupta P, Adhikary A, Baral R, Chattopadhyay S. Reactive oxygen species in the tumor niche triggers altered activation of macrophages and immunosuppression: Role of fluoxetine. **Cell Signal.** 2015; 27:1398-412. (**Impact factor: 4.315**) (ISSN Number: 0898-6568)

13. Bhattacharya S, Ahir M, Patra P, **Mukherjee S**, Ghosh S, Mazumdar M, Chattopadhyay S, Das T, Chattopadhyay D, Adhikary A. PEGylated-thymoquinone-nanoparticle mediated retardation of breast cancer cell migration by deregulation of cytoskeletal actin polymerization through miR-34a. **Biomat.** 2015; 91-107. (**Impact factor: 12.48**) (ISSN Number: 0142-9612)
14. **Mukherjee S**, Ghosh S, Choudhury S, Adhikary A, Manna K, Dey S, Sa G, Das T, Chattopadhyay S. Pomegranate reverses methotrexate-induced oxidative stress and apoptosis in hepatocytes by modulating Nrf2-NF- κ B pathways. **J Nutr Biochem.** 2013; 24:2040-50. (**Impact factor: 6.05**) (ISSN Number: 0955-2863)

Conference Participation

Details of the Oral Presentation:

- “Differential Modulation of Cellular Redox Microenvironment by Pomegranate Polyphenols as a Molecular Basis of Selective Cancer Targeting” in **National Conference on Stress Response and Diseases**, held on 6-7th March, 2020.
- “Green Synthesis of Green Tea Nanoparticles for Enhanced Anti-Tumor Activities and Hepatoprotection” at the Closing Ceremony of **International Conference on Molecules to Systems Physiology: 100 Years Journey** Held on 28.08.2015.
- “Green Tea Nanoparticles Induce Differential Cytotoxicity on Normal Hepatic Cells versus Tumor Cells” in **PHYSICON 2014 (XXVIth Annual National Conference of the Physiological Society of India)**, 19-21st December, 2014.
- “Methotrexate Induces ROS-Dependent Apoptosis in Liver Cells: Protective Role of Pomegranate Polyphenols” in **5th International Conference on Translational Cancer Research 2014**, 6th-9th February, 2014.
- “Pomegranate Protects Liver from Methotrexate-Induced Oxidative Stress by Modulating ROS-Mediated Apoptotic Pathways” in **Frontiers in Modern Biology 2013**, 9-10th November 2013. (**Won 1st Prize**)

Details of the Poster Presentation:

1. “Dietary Pomegranate Supplement (POMx) Suppresses Inflammatory Cascade in Tumor-Bearing Mice: Critical Role of Transcription Factors Nrf2 and NF- κ B” in **46th Immunocon 2019**, organized by DAE Convention Centre, Mumbai, November 14th-16, 2019.
2. “Nanoformulation of Green Tea Polyphenols for Increased Efficacy of Chemotherapy: Synthesis, Characterization and In Vitro Evaluation” in **37th IACR Convention 2018** Organized by Bose Institute, Kolkata, February 23-25, 2018.
3. “Selective Glutathione Depletion Dictates Differential Cytotoxicity Of Pomegranate Polyphenols in Normal Versus Tumor Cells” in **Advances In Life Sciences** organized by Department of Life Sciences, IISER-Kolkata, January 13-15, 2017.
4. “Enhanced Cellular Uptake and Chemotherapeutic Potential of Nanoformulated Green Tea Polyphenols” in **3rd International Meet on Advanced Studies on Cell Signaling Network (CESIN-2016)**, December 18-20, 2016.
5. “Pro-Versus Anti-Oxidative Properties of a Classical Anti-Oxidant in Cancer Context” In **2nd International Meet On Advanced Studies On Cell Signaling Network (CESIN-2014)**, December 13-15, 2014.
6. “Gold Coated Green Tea Nanoparticle: Synthesis, Characterization and Evaluation Of *In Vitro* Anti-Tumor Properties” in **National Conference on Nanoscience and Nanotechnology 2014 (NS&NT 2014)**, September 18 & 19, 2014.

7. "Pomegranate Polyphenols Ameliorate Hepato-Toxicity in Tumor-Bearing Mice" in The Section of **Medical Sciences During 100th Indian Science Congress**, 2013 (3-7th January,2013)
8. "Gold Coated EGCG Nanoparticles: Synthesis, Characterization and Evaluation of In Vitro Anti-Oxidant Properties" In **The Women's Science Congress Section, 100th Indian Science Congress**, 2013 (4-6th January, 2013)
9. "Inflammation Induced Pancreatic Dysfunction: A Molecular Approach" at The **3rd International Cancer Research Symposium, 2012** (18-21st December,2012)
10. "Protective Role of Pomegranate Fruit Extract in Ameliorating Methotrexate-Induced Hepatic Damage" at The **International Conference on Molecules To Systems Physiology: 100 Years Journey, 2011** (21-23rd September, 2011)

Details of Abstracts Published Other Than Oral/Poster Presentation:

1. "NLGP Immunotherapy Normalizes Diabetes-associated Hepatic Inflammation and Promotes Type-1 Diabetes Mediated Immune Dependent Tumor Restriction by Modulation T Cell Metabolism" at International Conference of Immunology, SRM Institute of Science and Technology, Tamil Nadu, September 26-28, 2018. (Authors: Sarkar A, Guha I, Nandi P, Saha A, Ganguly N, Das J, Gupta A, **Mukherjee S**, Baral R, Bose A)
2. "Linking Autophagy And Epithelial-Mesenchymal Transition During Inflammation-Induced Pancreatitis: Role Of Tert-Butylhydroquinone" at Advances In Life Sciences Organized by Department of Life Sciences, IISER-Kolkata, January 13-15, 2017. (Authors: Sain A, Ghosh S, Gupta P, **Mukherjee S**, Chowdhury O, Chakraborty P, Chattopadhyay S).
3. "Autophagy And Apoptosis: Is P53 The Missing Link" at Advances In Life Sciences Organized by Department of Life Sciences, IISER-Kolkata, January 13-15, 2017. (Authors: Chakraborty P, **Mukherjee S**, Ghosh S, Gupta P, Sain A, Chowdhury O, Chattopadhyay S).
4. "NFkB and Stat3 Association Regulates P53-Dependent Cell Fate Decisions during Inflammation: Role of Fluoxetine" at 3rd International Meet on Advance Studies in Cell Signaling Networks (CESIN-2016) in December 2016. (Authors: Ghosh S, **Mukherjee S**, Choudhury S, Gupta P, Chattopadhyay S).
5. "Nrf2 Upregulation by PFE or TBHQ Results in Rescue of Pancreatic Cell Death Caused by Persistent LPS Administration" at 3rd International Meet on Advance Studies in Cell Signaling Networks (CESIN-2016) in December 2016. (Authors: Sain A, Gupta P, **Mukherjee S**, Ghosh S, Choudhury S, Charaborty P, Sen SS, Chattopadhyay S).
6. "Pomegranate Combats Arsenic-Induced Oxidative Stress and Apoptotic Pathways in Liver Cells" at SFRBM 2015 - 22nd Annual Meeting of the Society for Redox Biology and Medicine, Boston, MA, November. 2015. (Authors: Choudhury S, Ghosh S, **Mukherjee S**, Gupta P, Chakraborty P, Chattopadhyay S).
7. "Inflammation Drives Epithelial to Mesenchymal Transition during Breast Cancer Metastasis by Activation of B-Catenin: A Protective Role of Pomegranate Fruit Extract" At Global Cancer Summit, November, 2015. (Authors: Gupta P, Ghosh S, Choudhury S, **Mukherjee S**, Chakraborty P, Sen SS, Chattopadhyay S).
8. "Pegylated-Thymoquinone-Nanoparticle Mediated Retardation of Breast Cancer Cell Migration by Dereglulation of Cytoskeletal Actin Polymerization through Mir-34a" at the Closing Ceremony of International Conference on Molecules to Systems Physiology: 100 Years Journey Held on 28.08.2015. (Authors: Bhattacharya S, Ahir M, **Mukherjee S**, Chattopadhyay S, Adhikary A).
9. "Inflammation Dictates Epithelial to Mesenchymal Transition in Breast Carcinoma Cells: Protective Role of Pomegranate Fruit Extract" at the Closing Ceremony of International

- Conference on Molecules to Systems Physiology: 100 Years Journey Held on 28.08.2015. (Authors: Gupta P, Ghosh S, Choudhury S, **Mukherjee S**, Chakraborty P, Sen Ss, Chattopadhyay S).
10. "Autophagy and Trail: A Probable Crosstalk?" at the Closing Ceremony of International Conference on Molecules to Systems Physiology: 100 Years Journey Held on 28.08.2015. (Authors: Chakraborty P, **Mukherjee S**, Choudhury S, Gupta P, Ghosh S, Sen Ss, Chattopadhyay S).
 11. "Reactive Oxygen Species at the Crossroads of Inflammation and Pancreatic Dysfunction" at the Closing Ceremony of International Conference on Molecules to Systems Physiology: 100 Years Journey Held on 28.08.2015. (Authors: Choudhury S, Ghosh S, Gupta P, **Mukherjee S**, Chattopadhyay S).
 12. "P-Gp Mediated Multi Drug Resistance (MDR) in Cancer Cells: Novel Approach To Reverse MDR Effects" at The Closing Ceremony of International Conference On Molecules To Systems Physiology: 100 Years Journey Held on 28.08.2015. (Authors: Sen SS, Gupta P, Ghosh S, Choudhury S, **Mukherjee S**, Chakraborty P, Chattopadhyay S).
 13. "Systemic Inflammation-Induced Peripheral Immune Alterations Potentiate Behavioral Changes, Hippocampal Inflammation, Oxidative Damage and Apoptosis in Mouse Brain: Modulation by A Selective Serotonin Reuptake Inhibitor" in 2nd International Meet On Advanced Studies on Cell Signalling Network (CESIN-2014), December 13-15, 2014. (Authors: Ghosh S, **Mukherjee S**, Choudhury S, Gupta P, Chattopadhyay S).
 14. "Daily Intake of Pomegranate and Green Tea can Modulate Cellular Signalling Pathways to Confer Protection against Arsenic-Induced Hepatotoxicity" in 2nd International Meet on Advanced Studies on Cell Signalling Network (CESIN-2014), December 13-15, 2014. (Authors: Choudhury S, Ghosh S, **Mukherjee S**, Gupta P, Chattopadhyay S).
 15. "Inflammation and Oxidative Stress Orchestrate Chronic Pancreatitis: Protective Role of Pomegranate Fruit Extract" in 2nd International Meet on Advanced Studies on Cell Signalling Network (CESIN-2014), December 13-15, 2014. (Authors: Gupta P, Chowdhury O, Ghosh S, Choudhury S, **Mukherjee S**, Chattopadhyay S).
 16. "Tumor-immune interactions: Divide and rule" in 5th International Conference on Stem Cells and Cancer, Organized by, International Centre for Stem Cells, Cancer and Biotechnology (ICSCCB), Pune, India (ICSCC-2014): Proliferation, Differentiation and Apoptosis, November 8-10, 2014. (Authors: Gupta P, Ghosh S, Choudhury S, **Mukherjee S**, Chattopadhyay S)
 17. "Immune Alteration Orchestrate the Onset of Inflammatory Condition in The Hippocampus by Deregulating the NF-κB-Nrf2 Pathway: Role of Fluoxetine" in One Day Symposium on the Occasion of Cancer Awareness Day (Authors: Ghosh S, **Mukherjee S**, Choudhury S, Gupta P, Baral R, Chattopadhyay S) (Organised By CNCI. 7th Nov 2014).
 18. "Inflammation to Cancer: Role of a Selective Serotonin Reuptake Inhibitor" in 5th International Conference on Translational Cancer Research 2014, 6th-9th February, 2014. (Authors: Ghosh S, Choudhury S, **Mukherjee S**, Gupta P, Chattopadhyay S) Date 9th February 2014 (Organised By Delhi State Cancer Institute and Md Anderson Cancer Institute, Texas USA).
 19. "Amelioration of Arsenic-Induced Hepatotoxicity in Swiss Albino Mice by Pomegranate-A Potent Dietary Antioxidant" in Frontiers in Modern Biology 2013, 9-10th November 2013 at IISEER Kolkata. (Authors: Choudhury S, Ghosh S, **Mukherjee S**, Gupta P, Chattopadhyay S).
 20. "Fluoxetine Ameliorates Inflammation-Induced Hippocampal Degeneration in Murine Brain by Modulating ROS Mediated Intrinsic Apoptotic Pathway" in Indian Academy of

- Neurosciences, Kolkata Chapter, 6th September 2013. (Authors: Ghosh S, Choudhury S, **Mukherjee S**, Gupta P, Chattopadhyay S).
21. "Methotrexate-Induced Hepatic Damage: Protective Role of Green Tea Extract" In the Section of Medical Sciences during 100th Indian Science Congress, 2013 (3-7th January 2013) (Authors: Ghosh S, **Mukherjee S**, Choudhury S, Chattopadhyay S) Date: 6th January 2013.
 22. "Protective Effect of Pomegranate against Prostate Cancer" at the International Conference on Molecules to Systems Physiology: 100 Years Journey Held during September 21-23rd, 2011 at Department of Physiology, University of Calcutta. (Authors: Bindhani B, **Mukherjee S**, Ghosh S, Chattopadhyay S).
 23. "Nuclear Factor kb: A Critical Modulator of Cancer Pathogenesis" At the International Conference on Molecules to Systems Physiology: 100 Years Journey Held during September 21-23rd, 2011 At Department of Physiology, University of Calcutta. (Authors: Ghosh S, **Mukherjee S**, Chattopadhyay S).

Details of Workshop/Conference/Webinar/World Health Organization Course Participation:

1. Attended Immunocon, the 47th Annual Conference of The Indian Immunology Society (Virtual mode), Organized in collaboration with CSIR- Indian Institute of Chemical Biology, Kolkata 18th -19th December 2021.
2. Attended International Webinar on "From Molecule to System: Understanding innate immunity" organized by Department of Physiology, Basirhat College.
3. Attended Webinar on "Translational Neurophysiology & Cognition" (10th November 2021) jointly organized by the Indian Academy of Neurosciences (IAN) and Department of Physiology, University of Calcutta & CPEPA-Centre for "Electrophysiology and Neuroimaging including Mathematical Modelling", University of Calcutta.
4. Attended **International Webinar Series on the occasion of National Nutrition Month, 2020**, (01.09.2020-07.09.2020) organized by Department of Home Science, University of Calcutta.
5. Attended **Online Workshop on Scientific Writing and Research Ethics** organized by DBT/Wellcome Trust India Alliance on 29 June 2020.
6. Attended State Level Webinar **COVID-19: Overview of the Disease and General Safety Measures** organized by IQAC in association with Department of Physiology, Surendranath College, Kolkata, West Bengal on 15 June 2020.
7. Completed **Training Course on Flow Cytometry and Cell Sorting (BDFACSARIA III)** from 21st-24th June 2011 at BD-CU Coe for Nanobiotechnology, Centre for Research in Nanoscience and Nanotechnology (CRNN), University of Calcutta in association with BD Biosciences (India).
8. Attended a Workshop Entitled "**Advanced Cell Analysis Tools: Hicontent Bio-Imaging And Flow Cytometry With Cell Sorter**" Organized by BD India Pvt Ltd. in association with Centre for Research in Nanoscience and Nanotechnology (CRNN), University of Calcutta on 11.01.2011 & 12.01.2011.
9. Attended "**International Workshop on Applications of Flow Cytometry and Imaging in Cell Biology and Nano-Biotechnology**", held during 11-18th August 2012 organized by Centre for Research in Nanoscience and Nanotechnology (CRNN), University of Calcutta in Association with BD Biosciences (India).
10. Attended **2nd National Workshop on Applications of Flow Cytometry and Imaging in Cell Biology** held during 18-24th February 2012 organized by the Centre for Research in Nanoscience and Nanotechnology (CRNN), University of Calcutta in Association with BD Biosciences (India).

11. Attended **1st National Workshop on Applications of Flow Cytometry and Imaging in Cell Biology** held during 18-24th December 2011 organized by the Centre for Research in Nanoscience and Nanotechnology (CRNN), University of Calcutta in Association with BD Biosciences (India).

Details of the Workshop/Conference Participated as a Member of the Organization Committee

1. **2nd National Workshop on Applications of Flow Cytometry and Imaging in Cell Biology** held during 18-24th February 2012 organized by the Centre for Research in Nanoscience and Nanotechnology (CRNN), University of Calcutta in Association with BD Biosciences (India).
2. **1st National Workshop on Applications of Flow Cytometry and Imaging in Cell Biology** held during 18-24th December 2011 organized by the Centre for Research in Nanoscience and Nanotechnology (CRNN), University of Calcutta in Association with BD Biosciences (India).
3. International Conference on Molecules to Systems Physiology: 100 Years Journey Held during September 21-23rd, 2011.
4. **Women's Science Congress Section, 100th Indian Science Congress, 2013** (4-6th January, 2013).

Awards:

- Certificate of Merit and Prasanta Kumar Ghosh Fellowship for the year 2007 from University of Calcutta for Securing Highest Marks in B.Sc (H) from C.U. amongst the admitted students in 2007

Member of International/National Society:

- Life Member of Indian Science Congress.

Sudeshna Mukherjee .