

SANJIT DEY, Ph.D.

Professor,

Department of Physiology,
Department of Sports Sciences,
UGC -Centre for Research in Nano sciences and Nanotechnology (CRNN)
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h index: 30; Recent (June 2024)
Total citations 2,836

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Career and academic objectives:

My distinctive contribution centers on seamlessly integrating cutting-edge enriched education and active community involvement. Embracing value-added teaching and establishing positive connections with various national, international, and societal organizations has shaped my commitment to contribute to the fields of scientific exploration and academic environments. My aim is to facilitate a well-rounded intellectual elevation of the next generation, fostering innovation, self-reliance, and alignment with the comprehensive development of our nation. My research objective is to execute innovative real life therapeutic research using traditional food for holistic human health care.

Date of Birth: 14.08.1969

Academic Records

- A Bachelor of Sciences: 1990: University of Calcutta, Human Physiology with Honours.
- B Master of Sciences: 1992: University of Calcutta, Human Physiology with Specialization in Biochemistry.
- C. Doctor of Philosophy (PhD): 1999: University of Calcutta, Molecular Biology and Biophysics.

Post Doctoral Experiences:

School of Medicine, University of California Los Angeles, Los Angeles, CA, USA: 2000-2002.

Visiting Scientist: MD Anderson Cancer Centre, Houston, Texas, USA, 2008

Teaching Experience: More than 22 years (April 1997 onwards): Professor since: 2012.

Research: More than 27 years (1993 onwards)

PhD Awarded under my direct supervision: 16; currently registered: Eight; Enrolled: Four.

Adjudicator of thesis from other Universities: Fourteen

Academic Collaborations:

National: Amrita Vishwa Vidyapeetham, Ramakrishna Mission Vivekananda Education and Research Institute (RKMVERI), Indian Association for Cultivation of Sciences (IACS); Calcutta Medical College; IPGMER, RG Kar Medical Collge; AIIMS, New Delhi.

Recent Awards and Accolades:

- Selected as Education Task force member International Union of Physiological Sciences (IUPS)
- Indian National Science Academy (INSA) Teachers Award 2022 (https://insaindia.res.in/scroll_news_pdf/Recipients-INSA-Teachers-Award%2020221.pdf)
- Indian Science Congress Association (ISCA) Platinum Jubilee Oration Lecture Award, 2021/2022 at R.T.M. Nagpur University, Nagpur, Maharashtra January 3-7, 2023 on Jan 04, 2023.
- Invited Speaker of Physiology Section of State Science Congress, WB ST Congress, 2023, at Science City Auditorium, February 28, 2023
- Professor (Dr) JN Moitra Memorial Oration Lecture Award, PHYSICON 2022, PSI International Conference. At Vidyasagar University, March 03, 2023
- Invited Speaker at Regional Science Congress, WB ST Congress held at Burdwan University, January 6th, 2023
- Many outreach programs and interactive sessions at the schools and undergraduate-Postgraduate Colleges. Intervention events for the specially abled and first generation tribal learners.

Running Projects: 1. Pain Neuromodulation: A Molecular Approach: Technically Selected by ICMR, GoI Funding agency: 63 Lakhs

2. Detection and Management of Pain: Pain to Pleasure by neuromodulation: 2020-23; DRDO, GOI: 61 lakhs: Fundamental and mechanistic research for novel pain detection and management

3. Investigation and Management of Pain by Novel Mechanisms of Neuromodulation 2020-21, WBDSTB, GoWB: 8.94 lakhs. Fundamental Research for development of Novel analgesics. Completed.

Funded Projects Completed: 15

Currently running funded projects: Two

Administrative Responsibilities:

Head, Department of Physiology: (2013-2015): Accomplished developmental matters of the Department for the students, researchers and faculties.

Member of Managing Committee of Ramakrishna Mission Vivekananda Educational and Research Institute, 2022

Chairperson, Board of Post Graduate Studies (2013-15): Performed all academic matters including publication of Results.

Adjudicator of thesis and Moderator of different examinations.

University Nominated Member of AYUSH Council, Government of West Bengal.

Member Secretary for two terms of Animal Ethics Committee,

Member of Ethics Committee of the University

Selection Committee member of different Universities and commissions.

Organizer of major International Conferences and meetings.

Member, Post Graduate Students Admission Committee of University, CU, 2016.

Member, Research Advisory Committee of UGC-UPE2, 2016-18.

Member, Research Advisory Committee, Centre for Research in Nanoscience and Nanotechnology, University of Calcutta.

Judging Panel: Physiological Society, United Kingdom.

Reviewer of number of peer reviewed International Journals and Funding agencies

Editorial Board member of Journals of “Frontiers of Pharmacology”, “Societal Impacts” (<https://www.sciencedirect.com/journal/societal-impacts/about/editorial-board>, Elsevier), “Nature Biological timing and sleep” (<https://www.nature.com/npjbt>; Nature Group of Journals) and International Journal of Functional Nutrition, Spandidos Publishers

Publications:

2024:

- 1 Tuhin Bhattacharya, Abhishek Gupta, Shalini Gupta, Samrat Saha, Shatabdi Ghosh, Zofa Shireen, Sanjit Dey*, Surajit Sinha*, Benzofuran Iboga-analogs Modulate Nociception and Inflammation in an Acute Mouse Pain Model, PMID: 38874536 DOI: 10.1002/cbic.202400162
- 2 Ghosh A, Saha K, Bhattacharya T, Sarkar S, Sengupta D, Maiti A, Ghoshal D, Dey S, Chattopadhyay D. Electrospun Cerium Oxide Nanoparticle/Aloe Vera Extract-Loaded Nanofibrous Poly(Ethylene Oxide)/Polyurethane Mats As Diabetic Wound Dressings. ACS Appl Bio Mater. 2024 Aug 2. doi: 10.1021/acsbm.4c00475. Epub ahead of print. PMID: 39093691.
- 3 Das U, Chawla-Sarkar M, Gangopadhyay SR, Dey S, Sharma RD. Role of Influenza A virus protein NS1 in regulating host nuclear body ND10 complex formation and its involvement in establishment of viral pathogenesis. PLoS One. 2024 Jan 2;19(1):e0295522. doi: 10.1371/journal.pone.0295522. PMID: 38166085; PMCID: PMC10760828.

2023:

- 4 Saha I, Das R, Mandal AK, Darlami P, Datta S, Ghose G, Dey S. Self-care practices and quality of life of filariasis patients in a gram panchayat of Paschim Burdwan district, West Bengal, India. J Vector Borne Dis. 2023 Oct-Dec;60(4):386-392. doi: 10.4103/0972-9062.374239. PMID: 38174516.
- 5 Acharya, M., Dey, S., Chakrabarti, A. et al. FPGA based library subset design for different biochemical reactions involved in a cell. Sādhanā 48, 264 (2023). <https://doi.org/10.1007/s12046-023-02314-w>
- 6 Pal R, Choudhury S, Kumar H, Dey S, Das N, Basu BR. Vitamin D deficiency and genetic polymorphisms of vitamin D-associated genes in Parkinson's disease. Eur J Neurosci. 2023 Sep;58(5):3362-3377. doi: 10.1111/ejn.16098. Epub 2023 Jul 24. PMID: 37485791.
- 7 Saha S, Ray S, Mandal A, Das U, Bhattacharya T, Shireen Z, Sarkar S, Sharma RD, Ghosh S, Dey S. Enhanced inflammasome-mediated inflammation and impaired autophagy in peripheral blood mononuclear cells is associated with non-alcoholic fatty liver disease severity. Life Sci. 2023 Jul 8;121911. doi: 10.1016/j.lfs.2023.121911. Epub ahead of print. PMID: 37429416.

- 8 Roy A, Choudhury S, Banerjee R, Basu P, Mondal B, Sarkar S, Anand SS, Dey S, Kumar H. Dietary and Environmental Risk Factors in Parkinson's and Alzheimer's Disease: A Semi-Quantitative Pilot Study. *Ann Indian Acad Neurol.* 2023 Mar-Apr;26(2):174-181. doi: 10.4103/aian.aian_823_22. Epub 2023 Feb 27. PMID: 37179670; PMCID: PMC10171008.
- 9 Amrita Chakraborty, Niloy Chatterjee, Sanjit Dey, Pubali Dhar; Sesame lignans as promising anti-inflammatory agent: Exploring novel therapeutic avenues with in silico and computational approach, Vol. 30 No. 4 (2023): 547-559 *Indian Journal of Chemical Technology*, DOI: <https://doi.org/10.56042/ijct.v30i4.70867>.
- 10 Tamal Kanti Ghosh; Sujan Kumar Chakrabarti; Shatabdi Ghosh; Samrat Saha; Sanjit Dey; Sudip Kumar Das, Synthesis, characterization, bioactivity and cytotoxicity assessment of nano ZrO₂ reinforced bioactive glass ceramics, *Ceramics International* 2023-07 | Journal article, DOI: 10.1016/j.ceramint.2023.07.237.
- 11 Bhakta, Viki; Shireen, Zofa; Dey, Sanjit and Guchhait, Nikhil. (2023). Fluorescence detection of Al³⁺ ion in aqueous medium and live cell imaging by ESIPT probe (E)-N'-(5-bromo-2-hydroxybenzylidene)-4-hydroxybenzohydrazide. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.* 297. 122749. 10.1016/j.saa.2023.122749.
- 12 Kasturi Saha, Adrija Ghosh, Tuhin Bhattacharya, Shatabdi Ghosh, Sanjit Dey, Dipankar Chattopadhyay, Ameliorative effects of clindamycin - nanoceria conjugate: A ROS responsive smart drug delivery system for diabetic wound healing study, *Journal of Trace Elements in Medicine and Biology*, 75, 2023, 127107, ISSN 0946-672X, <https://doi.org/10.1016/j.jtemb.2022.127107>.(<https://www.sciencedirect.com/science/article/pii/S0946672X22001870>)
- 13 Sarkar S, Roy A, Choudhury S, Banerjee R, Dey S, Kumar H. Levodopa-induced Dyskinesia in Parkinson's Disease: Plausible Inflammatory and Oxidative Stress Biomarkers. *Can J Neurol Sci.* 2023 Jan 20:1-6. doi: 10.1017/cjn.2023.8. Epub ahead of print. PMID: 36660782.

2022

- 14 S. Saha, S. Dey, S. Ray, R. D. Sharma, S. Ghosh, Evidence of linkage of inflammation activation with compromised autophagic activity in peripheral blood mononuclear cells of NAFLD subjects: a pilot study at Indian primary health centre, *Acta Physiologica* September 2022 • Volume 236 • Supplement 725.
- 15 S. Dey, S. Biswas, H. Biswas, S. C. Biswas, R. D. Sharma, Naringin prevents smokeless tobacco (SLT) induced mitochondrial health degradation, apoptosis in neurons, neurobehavioral pattern and improves systemic toxicity, *Acta Physiologica*, September 2022 • Volume 236 • Supplement 725.
- 16 S. Dey, T. Bhattacharya, S. Sinha, S. Gupta, A. Gupta, S. Ghosh, Novel Iboga-derivatives ameliorate nociception, inflammatory and modulate Acute Pain in Mice, *Acta Physiologica*, September 2022 • Volume 236 • Supplement 725.

- 17 Roy A, Banerjee R, Choudhury S, Chatterjee K, Mondal B, Dey S, Kumar H. Novel inflammasome and oxidative modulators in Parkinson's disease: A prospective study. *Neurosci Lett*. 2022 Aug 24;786:136768. doi: 10.1016/j.neulet.2022.136768. Epub 2022 Jun 30. PMID: 35780939.

2021

- 18 Roy A, Mondal B, Banerjee R, Choudhury S, Chatterjee K, Dey S, Kumar H. Do peripheral immune and neurotrophic markers correlate with motor severity of Parkinson's disease? *J Neuroimmunol*. 2021 May 15;354:577545. doi: 10.1016/j.jneuroim.2021.577545. Epub 2021 Mar 9. PMID: 33756415.

2020:

- 19 Sanjit Dey and Rakhi Dey Sharma, Comorbidities and risks of Infection: A few long term inexpensive solutions, Chapter 4, pp 83-87, *The Science of Covid -19, People and Society*. ISBN: 978-81-949068-0-3.
- 20 Chatterjee K, Roy A, Banerjee R, Choudhury S, Mondal B, Halder S, Basu P, Shubham S, Dey S, Kumar H. Inflammasome and α -synuclein in Parkinson's disease: A cross-sectional study. *J Neuroimmunol*. 2020 Jan 15;338:577089. doi: 10.1016/j.jneuroim.2019.577089. Epub 2019 Oct 25. PMID: 31704453.
- 21 Shatabdi Ghosh*, Sanjit Dey & Sujoy Ghosh, Diabetes in the time of COVID-19 pandemic: A knife with two sharp ends: *Indian Journal of Biochemistry & Biophysics* Vol. 57, October 2020, pp. 512-520.
- 22 Sushobhan Biswas, Hrishita Das, Ujjal Das, Aaveri Sengupta, Rakhi Dey Sharma, Subhas Chandra Biswas & Sanjit Dey (2020) Smokeless tobacco induces toxicity and apoptosis in neuronal cells: a mechanistic evaluation, *Free Radical Research*, DOI: 10.1080/10715762.2020.1805446
- 23 Arnab Banerjee, et al. Mechanistic study of attenuation of monosodium glutamate mixed high lipid diet induced systemic damage in rats by *Cocciniagrandis*"Sept 2020; Just Accepted. Doi:10.1038/s41598-20-72076-6
- 24 Manas Mahapatra, Arnab Dutta, Joy Sankar Deb Roy, Mousumi Deb, Ujjal Das, Snehasis Banerjee, **Sanjit Dey**, PijushKanti Chattopadhyay, Dilip K Maiti, Nayan Ranjan Singha. Synthesis of Biocompatible Aliphatic Terpolymers via In Situ Fluorescent Monomers for Three-in-One Applications: Polymerization of Hydrophobic Monomers in Water. *Langmuir*, 2020 May 26. doi: 10.1021/acs.langmuir.0c00636. Online.
- 25 Koustav Chatterjee, Akash Roy, Rebecca Banerjee, Supriyo Choudhury, Banashree Mondal, Saptak Halder, PurbaBasu, Shantanu Shubham, **Sanjit Dey**, Hrishikesh Kumar: Inflammasome and α -synuclein in Parkinson's disease: A cross-sectional study: *Neuroimmunology*, 2019

2019:

- 26 Aaveri Sengupta, Ujjal Das, // Rakhi Dey Sharma and **Sanjit Dey**, An association study of severity of intellectual disability with peripheral biomarkers of disabled children in a

rehabilitation home, Kolkata, India"; **Nature Scientific Reports**. 2019 Sep 20;9(1):13652. doi: 10.1038/s41598-019-49728-3.

27 Ujjal Das, Krishnendu Manna, ArghyaAdhikary, Snehasis Mishra, Krishna Das Saha, Rakhi Dey Sharma, Biswanath Majumder* and **Sanjit Dey***; Ferulic acid enhances the radiation sensitivity of lung and liver carcinoma cells by collapsing redox homeostasis:mechanistic involvement of Akt/p38 MAPK signalling pathway, *Free Radic Res*. 2019 Oct;53(9-10):944-967. doi: 10.1080/10715762.2019.1655559. Taylor and Francis, July 2019.

28 Singha NR, Mahapatra M, Dutta A, Deb Roy JS, Das U, Banerjee S, **Dey S**,

Chattopadhyay PK, C-C/ C-N Coupled Light-Emitting Aliphatic Terpolymers: N-H Functionalized Fluorophore-Monomers and High-Performance Applications. *Chemistry*. 2019 Oct 10. doi: 10.1002/chem.201903935. PubMed PMID: 31599070

29 Paul D, Manna K, Sengupta A, Mukherjee S, **Dey S**, Bag PK, Dhar P. A novel nanoformulation of α -eleostearic acid restores molecular pathogenesis of hypersensitivity. *Nanomedicine (Lond)*. 2019 Feb 12. doi: 10.2217/nmm-2018-0450.

2018:

30 Dey TK, Koley H, Ghosh M, **Dey S**, Dhar P. Effects of nano-sizing on lipid bioaccessibility and ex vivo bioavailability from EPA-DHA rich oil in water nanoemulsion, **Food Chem**. 1;275:135-142. doi: 10.1016/j.foodchem.2018.09.084. Epub 2018 Sep 14. PMID: 30724179

2017:

31 Das U, Sengupta A, Biswas S, Adhikary A, Dey Sharma R, Chakraborty A, **Dey S**. Alteration of murine duodenal morphology and redox signalling events by reactive oxygen species generated after whole body γ -irradiation and its prevention by ferulic acid. **Free Radic Res**. 2017 Dec;51(11-12):886-910. doi: 10.1080/10715762.2017.1388916. Epub 2017 Nov 3. PubMed PMID: 29098899.

32 Das U, Biswas S, Chattopadhyay S, Chakraborty A, Dey Sharma R, Banerji A, **Dey S**. Radiosensitizing effect of ellagic acid on growth of Hepatocellular carcinoma cells: an in vitro study. **Scientific Reports**, Springer nature: 2017 Oct 25;7(1):14043. doi:10.1038/s41598-017-14211-4. PubMed PMID: 29070894; PubMed Central PMCID: PMC5656621.

33 Suvarna S, Das U, Kc S, Mishra S, Sudarshan M, Saha KD, **Dey S**, Chakraborty A, Narayana Y. Synthesis of a novel glucose capped gold nanoparticle as a better theranostic candidate. **PLoS One**. 2017 Jun 5;12(6):e0178202. doi: 10.1371/journal.pone.0178202. eCollection 2017. PubMed PMID: 28582426; PubMed Central PMCID: PMC5459428.

34 Das U, Manna K, Khan A, Sinha M, Biswas S, Sengupta A, Chakraborty A, **Dey S**. Ferulic acid (FA) abrogates γ -radiation induced oxidative stress and DNA damage by up-regulating nuclear translocation of Nrf2 and activation of NHEJ pathway. **Free Radic Res**. 2017 Jan;51(1):47-63. doi: 10.1080/10715762.2016.1267345. Epub 2017 Jan 11. PubMed PMID: 28074659.

35 Aaveri Sengupta, Krishnendu Manna, Siddhartha Datta, Ujjal Das, Sushobhan Biswas, Nilkanta Chakrabarti and **Sanjit Dey**: Herbicide exposure induces apoptosis, inflammation, immune modulation and suppression of cell survival mechanism in murine model. **RSC Adv.**, 2017, 7, 13957

2016:

- 36 Das, Ujjal; Biswas, Sushobhan; Sengupta, Aaveri; Manna, Krishnendu; Chakraborty, Anindita; **DEY, SANJIT**, Ferulic acid (FA) abrogates ionizing radiation induced oxidative damage in murine spleen, **Int J Radiat Biol.** 92(12):806-818, 2016. DOI: 10.1080/09553002.2016.1230241
- 37 Krishnendu Manna, Amitava Khan, Sushobhan Biswas, Ujjal Das, Aaveri Sengupta, Dipanwita Mukherjee, Anindita Chakraborty and **Sanjit Dey** Naringin ameliorates radiation-induced hepatic damage through modulation of Nrf2 and NF- κ B pathways **RSC Adv.**, 2016,6, 23058-23073 2016, DOI: 10.1039/C6RA01102K

2015:

- 38 Das N, Ganguli D, **Dey S**. Moringa oleifera Lam. seed extract prevents fat diet induced oxidative stress in mice and protects liver cell-nuclei from hydroxyl radical mediated damage. **Indian J Exp Biol.** 2015 Dec;53(12):794-802. PubMed PMID: 26742324.
- 39 Biswas S, Manna K, Das U, Khan A, Pradhan A, Sengupta A, Bose S, Ghosh S, **Dey S**. Smokeless tobacco consumption impedes metabolic, cellular, apoptotic and systemic stress pattern: A study on Government employees in Kolkata, India. **Scientific Reports.** 2015 Dec 16;5:18284. doi: 10.1038/srep18284. PubMed PMID: 26669667.
- 40 Mukherjee S, Ghosh S, Das DK, Chakraborty P, Choudhury S, Gupta P, Adhikary A, **DeyS**, Chattopadhyay S. Gold-conjugated green tea nanoparticles for enhanced anti-tumor activities and hepatoprotection--synthesis, characterization and in vitro evaluation. **J NutrBiochem.** 2015 Nov;26(11):1283-97. doi: 10.1016/j.jnutbio.2015.06.003. Epub 2015 Jul 26. PubMed PMID: 26310506.
- 41 Manna K, Ujjal Das, Dipesh Das, Swaraj Kesh, Amitava Khan, Anindita Chakraborty & **Sanjit Dey**, Naringin inhibits gamma radiation-induced oxidative DNA damage and inflammation by modulating p53 and NF- κ B signaling pathways in murine splenocytes: **Free Radical Research**, 2015, DOI:10.3109/10715762.2015.1016018.
- 42 Khan A, Manna K, Das DK, Kesh SB, Sinha M, Das U, Biswas S, Sengupta A, Sikder K, Datta S, Ghosh M, Chakrabarty A, Banerji A, **Dey S**; Gossypetin ameliorates ionizing radiation-induced oxidative stress in mice liver--a molecular approach. **Free Radic Res.** 2015 Oct;49(10):1173-86. doi: 10.3109/10715762.2015.1053878. Epub 2015 Aug 14. PMID: 25994373

2014:

- 43 Khan A, Manna K, Chinchubose, Das DK, Sinha M, Kesh SB, Das U, Dey RS, Banerji A, **Dey S**. Seabuckthron (*Hippophaerhamnoides L.*) leaf extract ameliorates the gamma radiation mediated DNA damage and hepatic alterations. **Indian J Exp Biol.** 2014 Oct;52(10):952-64. PubMed PMID: 25345244.
- 44 Das U, Manna K, Sinha M, Datta S, Das DK, Chakraborty A, Ghosh M, Saha KD, **Dey S**. Role of ferulic acid in the amelioration of ionizing radiation induced inflammation: a murine model. **PLoS One.** 2014 May 22;9(5):e97599. doi:10.1371/journal.pone.0097599.

- 45 Manna K, Khan A, Kr Das D, Bandhu Kesh S, Das U, Ghosh S, Sharma Dey R, Das Saha K, Chakraborty A, Chattopadhyay S, **Dey S**, Chattopadhyay D. Protective effect of coconut water concentrate and its active component shikimic acid against hydroperoxide mediated oxidative stress through suppression of NF- κ B and activation of Nrf2 pathway. **J Ethnopharmacol**. 2014 May 14. pii: doi: 10.1016/
- 46 Sikder K, Kesh SB, Das N, Manna K, **Dey S**. The high antioxidative power of quercetin (aglycone flavonoid) and its glycone (rutin) avert high cholesterol diet induced hepatotoxicity and inflammation in Swiss albino mice. **Food Funct**. 2014 Jun;5(6):1294-303. doi: 10.1039/c3fo60526d. Epub 2014.

2013

- 47 Kunal Sikder, Nilanjan Das Swaraj Bandhu Kesh & **Sanjit DEY**, Quercetin and β -sitosterol prevent high fat diet induced dyslipidemia and hepatotoxicity in Swiss albino mice; Accepted and in press of **Ind J of Exp Biol. (IJEB)**, 2013.
- 48 Khan, K. Manna, C. Bose, et al., "Gossypetin, a naturally occurring hexahydroxy flavone ameliorates gamma radiation mediated DNA damage", **International Journal of Radiation Biology**, vol. no. pp. 2013.
- 49 A. Banerjee, A. Guha, J. Adhikary, Khan A., Manna K, ... **Dey S**, Das D., et al., "Dinuclearcobalt(II) complexes of Schiff-base compartmental ligands: Syntheses, crystal structure and bio-relevant catalytic activities", **Polyhedron**, vol. 60, no. 0, pp. 102-109, 2013.
- 50 Kesh SB, Sikder K, Manna K, Das DK, Khan A, Das N, **Dey S**, "Promising role of ferulic acid, atorvastatin and their combination in ameliorating high fat diet-induced stress in mice." **Life Sci**. 2013 May 20;92(17-19):938-49. doi: 10.1016/j.lfs.2013.03.015.
- 51 Nilanjan Das, Kunal Sikder, Surajit Bhattacharjee, Suchandra Bhattacharya Majumdar, Santinath Ghosh, Subrata Majumdar and **Sanjit Dey**; Quercetin alleviates inflammation after short term treatment in high fat fed mice Accepted in **Food and function**, 2013. Royal Society of Chemistry.*
- 52 Sikder K, Sinha M, Das N, Das D.Kr., Datta S, **Dey S**, *Moringa oleifera* LEAF EXTRACT PREVENTS *IN VITRO* OXIDATIVE DNA DAMAGE, Accepted for publication in **Asian J of Pharmaceutical Research**, 2013.
- 53 Das, Dipesh; Chakraborty, Anirban; Sinha, Mahuya; Manna, Krishnendu; Mukherjee, Dipanwita; Chakraborty, Anindita; Bhattacharjee, Sekhar; **DEY, SANJIT**; Modulatory role of quercetin against gamma radiation mediated biochemical and morphological alterations of red blood cell; **Int J of Radiation Biology**. 2013.
- 54 Pandey RM, Agrawal A, Misra A, Vikram NK, Misra P, Dey S, Rao S, Vasantha Devi KP, Usha Menon V, Revathi R, Sharma V, Gupta R. Population-based intervention for cardiovascular diseases related knowledge and behaviours in Asian Indian women. *Indian Heart J*. 2013 Jan-Feb;65(1):40-7. doi: 10.1016/j.ihj.2012.12.019. Epub 2012 Dec 26. PMID: 23438611; PMCID: PMC3860769.

2012

- 55 Sinha M, Das DK, Manna K, Datta S, Ray T, Sil AK, **Dey S**. Epicatechin ameliorates ionizing radiation-induced oxidative stress in mice liver. **Free Radic Res**. 2012 Apr 13. [Epub ahead of print] PubMed PMID: 22497453. Informa Health care.
- 56 Sinha M, Das DK, Datta S, Ghosh S, **Dey S**. Amelioration of ionizing radiation induced lipid peroxidation in mouse liver by *Moringa oleifera* Lam. leaf extract. **Indian J Exp Biol**. 2012 Mar;50(3):209-15. (2012). CSIR.

2011

- 57 Gupta R, Pandey RM, Misra A, Agrawal A, Misra P, **Dey S**, Rao S, Menon VU, Kamalamma N, Vasantha Devi KP, Revathi K, Vikram NK, Sharma V, Guptha S. High prevalence and low awareness, treatment and control of hypertension in Asian Indian women. **J Hum Hypertens**. 2012 Oct;26(10):585-93. doi: 10.1038/jhh.2011.79. Impact F: 2.801 (2011). Nature Publication Group.
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- 59 Pali Maiti, Amitava Khan, Tanmay Chattopadhyay, Sudhanshu Das, Krishnendu Manna, Dipayan Bose, **Sanjit Dey**, Ennio Zangrando & Debasis Das, Dinuclear zinc(II) complexes with compartmental ligands: syntheses, structures, and bioactivities as artificial nuclease, **Journal of Coordination Chemistry**, 64:21, 3817-3831, 2011. Impact Factor: 1.547 (2011): Taylor and Francis.
- 60 Ganguli D, Das N, Saha I., Chaudhuri D, Ghosh, S., **Dey S**, Predictors of Hypertension in a Population-Based Sample of Postmenopausal Women in Kolkata, West Bengal, India: Accepted for Publication at **Asia Pacific J of Public Health**, (Accepted in 2011, date of publication not obtained). Impact Factor: 1.056 (2011): SAGE
- 61 Kunnumakkara AB, Sung B, Ravindran J, Diagaradjane P, Deorukhkar A, **Dey S**, Koca C, Tong Z, Gelovani JG, Guha S, Krishnan S, Aggarwal BB. Zylamend suppresses growth and sensitizes human pancreatic tumors to gemcitabine in an orthotopic mouse model through modulation of multiple targets. **Int J Cancer**. 2011 Sep 20. doi: 10.1002/ijc.26442. Impact Factor: 5.444 (Wiley).
- 62 Pandey RM, Gupta R, Misra A, Misra P, Singh V, Agrawal A, **Dey S**, Rao S, Menon VU, Kamalamma N, Devi KP, Revathi K, Sharma, Determinants of urban-rural differences in cardiovascular risk factors in middle-aged women in India: A cross-sectional study. V. **Int J Cardiol**. 2011. Impact Factor: 4.111 (Elsevier).
- 63 Misra A, **Dey S**, Bhardwaj S, Consensus dietary guidelines for healthy living and prevention of obesity, the metabolic syndrome, diabetes, and related disorders in Asian Indians. National Dietary Guidelines Consensus Group. **Diabetes Technol Ther**. 2011 Jun;13(6):683-94. Review. Impact Factor: 1.931 (Mary Ann Liebert).

- 64 Dipesh Kr. Das, Anirban Chakraborty, Sekhar Bhattacharjee and **Sanjit Dey**, Biosynthesis of stabilised gold nanoparticle using an aglycone flavonoid quercetin, **Journal of Experimental Nanoscience**, 2011, 1–7. Impact Factor: 1.011 (2011). Tand F.
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Book Chapter

S.No.	Title with page nos.	Type of Book & Authorship	Publisher &ISSN/ ISBNNo.
1	Prevention and Treatment of Neurodegenerative Diseases by Spice-Derived Phytochemicals: Pg 281-308. 2010: 1420073524, 9781420073522	Bharat B. Aggarwal, Hari Kumar, and Sanjit Dey , 2010	CRC Press: 1420073524, 9781420073522
2.	Traditional uses of spices- an overview, Pg 1-24 in Molecular targets and therapeutic uses of spices, 2011	Kunnumakkara AB, Kocho C, Sung B, Supachai, Dey Sanjit , Aggarwal BB, 2011	World Scientific Publications.

3.	“The mint (Menthol) and its constituents” in Molecular targets and therapeutic uses of spices; Pg 373-401. 2011	Kunnumakkara AB, Kocha C, Chung JG, Dey S. 2011	World Scientific Publications
4	Nanoparticle Using Phytochemicals: Phytocompounds as building blocks for biocompatible gold nanoparticles development Pg 126-133	Recent trends in research of Nutrition Science,2012	Department of Food and Nutrition, BRSC; ISBN: 978-81-921808-5-4
5.	Quercetin and Beta sitosterol, two structurally dissimilar phytochemicals of Moringa oleifera leaf extract (MolE) ameliorate high fat diet induced steatohepatitis	Recent trends in research of Nutrition Science,2012	Department of Food and Nutrition, BRSC; ISBN: 978-81-921808-5-4
6.	Phytochemicals safe Guard Genome: Tiny molecules, big role. 2014	Anticancer Properties of Fruits and Vegetables A Scientific Review	World Scientific ISBN: 978-981-4508-88-9

Extramural research grant (Running)

Sl	Title of the Project	Funding Agency	Type of Projects
1	“Investigation and Management of Pain: Pain to pleasure by modulating TRPA Channels: A Preclinical Approach”.	ICMR, GOI, Approx: 60 Lakhs	To investigate the neurophysiological mechanism of pain modulation utilizing the TRP channels; identification new analgesic without any psychedelic activities;
2	Detection and Management of Pain: Pain to Pleasure by neuromodulation: 2020-23	DRDO, GOI: 61 lakhs (Approved))	Fundamental and mechanistic research for novel pain detection and management

Extramural research grant (Completed)

	Title of the Project	Funding Agency: Fund in INR:	Type of Projects
1.	Investigation and Management of Pain by Novel Mechanisms of Neuromodulation 2020-21	WBDSTB, GoWB: 8.94 lakhs	Fundamental Research for development of Novel analgesics
2.	Augmentation of radiation induced oxidative stress in radiosensitive and radioresistant tumour cells by Anthocyanins from coloured Phytochemicals. 2019-2022.	UGC-Department of Atomic Energy: 7.8 lakhs	To investigate and promote radiation therapy using selective grape extracts
3.	Detection and management of Pain signal: Validation of Pain Score: 2018-2020.	UGC-UPE, 6 Lakhs	Development of pain sensor and its Neurophysiological validation

4.	A. Improvement and intervention of Mental Efficiency in Mentally Challenged individuals by effective nutrition and other supportive care. B. Intervention strategies for Neuro degenerative disorders (Parkinson's disease and Alzheimer's disease) by Nutrition and other supportive care.	UGC, CPEPA scheme awarded to University of Calcutta: 10 Lakhs for consumables	Identification and of disease biomarker and association of progression
5.	The radiation sensitization of tumour cells effects using Tea Polyphenols	UGC- Department of Atomic Energy: 9 Lakhs	To investigate and promote radiation therapy using selective tea polyphenols
6.	“Molecular action of <i>Cocos nucifera</i> water on γ radiation induced oxidative damage and cellular signalling”.	Coconut Development Board: 18 Lakhs	Identification of hepatoprotective elements from coconut water
7.	“Beneficial effect of Tea Extract against Smokeless Tobacco induced oral mucosal damage: Toxicological Assessment”	National Tea research foundation: 19 Lakhs	Preventive element for oral mucosal lesion after Smoke less tobacco chewing: Anti cancer element development
8.	“Molecular action of <i>Moringa olifera</i> leaf extract and its active components on radiation protection: Assessment of Low and High LET Radiation effectivity”	IUAC-UGC: 6.5 Lakhs	Functional Food development
9.	“Ferulic acid as a radio protector against challenges and threats from ionizing radiation: Validation of molecular mechanism involving NF- κ B and Nrf2 cross-talking system”.	LSRB-DRDO: 9.82 Lakhs	Radiation Protection and functional food development
10.	“Enhancement of Radiation Induced Oxidative Stress in Human Hepatocellular Carcinoma Cells by Ellagic Acid”	UGC: 14 Lakhs	Radiation sensitization element identification.
11.	“Management of Radiation hazard by active compounds of <i>Moringa olifera</i> : Assessment of Cellular Impact”	CSIR: 18 Lakhs	Radiation protection element identification and effective validation against as radiation effects mitigation
12	“Radioprotection Activity of <i>Moringa olifera</i> (Sajne) and its active components: Assessment of Nrf2 and NF- κ B Transcription Factor Cross Talking System”.	WB-DBT: 14 Lakhs	Identification of specific phytochemicals as effective radiation hazard countermeasure

13	“Anti Dyslipidemic effect of <i>Moringa oleifera</i> (Sajina) leaf and seed extract”.	DBT, GOI: 21.12 Lakhs	Identification of bioactive element from Leaf and Development functional food against Metabolic Syndrome.
14	“Radiation Protection using <i>Moringa oleifera</i> principles”	UGC-DAE: 5.6 Lakhs	Development of Radioprotective food.
15	Radiation Protection using Nanocompounds of <i>Moringa oleifera</i> principles	CRNN, University of Calcutta: 2 Lakhs	Development of Nanofood and Nano devices.
16	Development of Appropriate Prevention and Intervention Strategies for Non communicable nutrition related disorders among women in Post reproductive Period	DST, SERB, SS division, 9.65 Lakhs	Identification of food groups and association of CVD markers.

Patents (if any): None: Processing for 4 formulations and products

List of Honours/Awards and Recognition:

- **Selection as Management Committee Member** of Ramakrishna Mission Vivekananda Educational and Research Institute, 2022, A NAAC++ Deemed to be University.
- **Recipient of Indian National Science Academy (INSA) Teachers’ Award 2022.**
- **Selected as Theme Lead of Endocrine section of Physiological Society, UK (2022-25)**
- **Nominated as member of advisory board of NASI Local Chapter, Kolkata, 2019-2023.**
- **Selected as Education Task force member International Union of Physiological Sciences (IUPS)**
- Elected Member of the National Academy of Sciences, India, Allahabad, 2016
- **Selected Member of Physiological Society, United Kingdom, 2020**
- Received overseas fellowship from DBT, Government of India to attend Visiting Scientist Position at MD Anderson Cancer Center, Houston, USA.
- Selected for Postdoctoral research UCLA School of Medicine, Los Angeles, USA 2000-2002.
- Selected member of governing body member in Council, College or organizations.
- Selection committee member of University, Commission.
- Member of Syllabus and other administrative committees.
- Member of Board of studies of Departments of Universities (CU, RKMVERI, RKM Vidyamandir, KU).
- Served as Head of The Department, Physiology, University of Calcutta (2013-2015).
- Selected as observer at the ICMR capacity building meeting at North East for Nutrition Research. (February 2005).
- Selected reviewer of project proposals by ICMR and DST, GOI (2005-Onwards).

- Key note lecturers, Plenary and Invited talks at several International meetings.
- Submission to NLM GenBank: Sanjit Dey, et al (GenBank # AF 442738, Gen Bank #AF 442149 and Gen Bank #AF 442150, DQ011867, AF442738 and Gen Bank #: AF288781).
- Cold Spring Harbor Symposium on Physiological Genomics and Rat Models (December 5-9, 2001); Dey S., et al., Chatterjee N., Iacoviello M., Said HM, Rubin SA, Platelet-derived Growth Factor upregulates pantothenic acid uptake and gene expression of its transporter in rat vascular smooth muscle cells.
- Poster selected with distinction at American Gastroenterology Association meeting-2001, Atlanta, Georgia.
- Poster selected for IUPS world congress:2002
- First prize in Inter -University essay competition on “Nutrition and Health” 1991.
- National Merit Scholar, Government of India.
- Recipient of National Science Talent Search Award, 1984

Foreign visit

- Visited and worked for two years at UCLA, School of Medicine, Los Angeles, CA USA as post doctoral Fellow 2000-2002.
- Visiting Scientist at MD Anderson Cancer Centre, Houston, USA at DBT Overseas Fellow, 2008.
- Visited Wellington, New Zealand as Invited speaker to attend 3rd Food Structure and Health meeting. 2015.

Membership in scientific bodies

- Physiological Society of India, Life Member and Vice President (current term 2024 onwards) (PSI LM-0126)
- International Union of Physiological Societies (IUPS) Education Task force member 2024
- The International Association on the Study of Pain (IASP): Member since 2024 : Ref: **131871**
- Selected member of Physiological Society, UK since 2020
- Member of American Physiological Society, USA, 2020
- Member of advisory board of NASI Local Chapter, Kolkata, 2019.
- Member of National Academy of Sciences, India, Allahabad.
- **Executive Committee Member** of Society of Free radical Research (I).
- Member of Americal Society of Nutrition (02397974)
- Movement Disorder Society (MDS), USA: (Membership ID: 102326)
- University Nominated Member of AYUSH council, Government of West Bengal.
- Member Secretary of the departmental Animal Ethics committee of CPCSEA, New Delhi,
- Group Leader for harmonization of standards by “Food Safety and Standard Authority of India (FSSAI)”, Government of India.
- Editorial Board Member of American J of Experimental Biology, Columbia International Press
- Invited Honorary Affiliate Member of Royal Society of Chemistry, London
- Administration: Serving as Head of the Department, Coordinator of Special Paper, Ethics Committee Chairman. Chairman of PG Board of Studies,
- Expert member of different Selection Committee.

Professional Responsibilities and Administrative Experiences:

- Reviewer for at least 20 peer reviewed journal (~90 articles reviewed)
- Selection committee member of Service Commission and Universities.
- Member of PG Board of Studies, Department of Physiology, University of Calcutta.

- Member of Board of Studies, Department of Microbiology, RK Mission Vidyamandir, Belur Math, Howrah.
- Member of Board of Studies, Department of Sports Sciences, RKMVERI, (University) Belur Math, Howrah.
- Performed as Vice Chancellor's nominee of University of Calcutta to review the selection process of Promotion in service, 2012.
- Acted as Chairman, PG Board of Studies, University of Calcutta. December 2013 onwards.
- Acted as Chairman of Institutional Animal Ethics Committee. December 2013 onwards.
- Acted as Chairman of Human Ethics Committee of The Department. December 2013 onwards.
- Acted as Research Advisory Committee of The Centre for Research of Nanoscience and nanotechnology (CRNN), University of Calcutta; February, 2009 onwards. Since 2010.
- Acted as member of Institutional Animal Ethics Committee of The Department.
- Acted as the board of jury in the Paschim Banga Bagla Vigyan Congress, Held at Narendrapur Ramkrishna Mission,
- Member of the syllabus Committee and subject expert of the Public Service Commission, West Bengal for WBCS examination.2012.
- Acted as Organizing Committee member as Treasurer of The COG-RIHAB, an international Conference on Cognitive Neuroscience and Rehabilitation, organized by the CPEPA, a centre funded by UGC to University of Calcutta. 2013.
- Selected as Vice Chancellors Nominee, UG Board of Studies, University of Kalyani, Nadia, since 2011
- **Organizing Secretary of the Tripartite International Conference on Neurodegenerative Disorders: Current and Future Perspective, 2017; organized by CPEPA, University of Calcutta, Institute of Neurosciences, Kolkata, and Institute of Neurosciences, New Castle University, UK.**

Recent Awards earned by Students

Name of the Student/Name of the Team	Name of the Award	Name of International Institution/Organization from where the award has been received *	Address of the Institution/Organization giving award *
Sankalita Sarkar	Best Oral Presentation	WB regional Science Congress, 2023	WBDST, Government of West Bengal, 6 th Regional Congress,

			Region 6.
Sankalita Sarkar	Best Poster and Oral Presentation	Central Calcutta Society for Advancement of Human Development and Research	Central Calcutta Society for Advancement of Human Development & Research, 81 Baburam Ghosh Road, Kolkata 40, Regd Soc: S/74000 of 93-94
Akash Roy	Newton Bhaba Award 2020	British Council, DST and ICSSR	Purti Kohli at purti.kohli@britishcouncil.org
Sushobhan Biswas	Newton Bhaba Award 2018	British Council, DST and ICSSR	Purti Kohli at purti.kohli@britishcouncil.org
UJJAL DAS	Outstanding Paper Award	26 th West Bengal state Science & Technology Congress	Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal Bikash Bhavan (4th Floor), Salt Lake, Kolkata 700091
UJJAL DAS	Best Poster Award	26 th West Bengal state Science & Technology Congress	Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal Bikash Bhavan (4th Floor), Salt Lake, Kolkata 700091
SASWATA CHAKRABORTY (MSC student); UJJAL DAS	GYAN Scholarship Winner	SGRF NGBT, Conference	SciGenom Research Foundation, Taj Mumbai.
UJJAL DAS	Vidyasagar University Research Memorial Young Scientist Award	XXX th annual international conference of the Physiological Society of India (PSI)	92, Acharya Prafulla Chandra Road, Rajabazar, Kolkata, West Bengal 700009
UJJAL DAS	Best Oral Presentation	XXX th annual international conference of the Physiological Society of India (PSI)	92, Acharya Prafulla Chandra Road, Rajabazar, Kolkata, West Bengal 700009
UJJAL DAS	Best Poster Award	Cancer Biology-Still a challenge in 21st century and SINP school on epigenetics	SINP. Sector 1, AF Block, Bidhan Nagar, Kolkata, West Bengal 700064

UJJAL DAS	Best Poster Award	Advances on Neuroscience Research & Management	Bose Institute
SUSHOBHAN BISWAS	IAN 2018: Ravindra and Lalita Nath Travel Fellowship Award	Indian Academy of Neuroscience (IAN) XXXVI Annual Conference of Indian Academy of Neurosciences	Organizing Secretary: Prof. S. Prasad Indian Academy of Neurosciences 2018 Conference at Banaras Hindu University
SUSHOBHAN BISWAS	Physicon2018: Best Poster Award (3 rd)	PHYSICON 2018	Organizing Secretary Organizing Committee, PHYSICON 2018
TUHIN BHATTACHARYA	2 nd Best oral presentation at 8 th FIPS CONGRESS 2019	Federation of Indian Physiological Societies (FIPS)	ESIC Medical College & Hospital, Faridabad.
AKASH ROY	Indian Academy of Neurology Best Research Poster Award, 2018	Indian Academy of Neurology	Research & Development Centre, Dayanand Medical College & Hospital, Civil Lines, Ludhiana-141001, Punjab, India.
AKASH ROY	MDS International Congress Travel Grant Award, 2018	International Parkinson and Movement Disorder Society	International Parkinson and Movement Disorder Society 555 E. Wells Street, Suite 1100, Milwaukee, WI 53202-3823 USA
MADHURIMA ROY	Nutrition Society of India Best Oral presentation award	Nutrition Society of India	National Institute of Nutrition, ICMR, Hyderabad
SAMRAT SAHA	Second in Best Poster	Physiological Society of India	92,A.P.C Road, kol-9, Dept. of Physiology, University of Calcutta
INDRANEEL CHATTERJEE	Best poster (5 th place)	Physiological Society of India	92,A.P.C Road, kol-9, Dept. of Physiology, University of Calcutta
Ujjal Das	Overall best Poster Award –Selected as Second best in oral 2017	Society of Free Radical Research	BARC Mumbai.
Aaveri Sengupta	Best Poster Award	Society of Free Radical	BARC, Mumbai

	for Travel Grant at SFRR 2017	Research	
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