

CURRICULUM VITAE

Personal Details

Name: DR. ABHIJIT DEY

(PhD, Presidency University; MSc, Gold Medallist, University of Calcutta), FLS (UK)

Designation: Assistant Professor (Stage III), Department of Life Sciences, Presidency University, 86/1, College Street, Kolkata-700073, West Bengal, India (Associate Professorship due in Aug, 2020)

Date of birth: 23.12.1980

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Webpages:

<http://www.presiuniv.ac.in/web/staff.php?staffid=2>

<https://scholar.google.co.in/citations?user=yZ8yzAMAAAAJ&hl=en&oi=ao>

https://www.researchgate.net/profile/Abhijit_Dey2

<https://publons.com/researcher/1296650/abhijit-dey>

<https://loop.frontiersin.org/people/1057985/overview>

ORCID iD: 0000-0002-5750-0802

Web of Science ResearcherID: AAG-2439-2020

Academic Qualifications

PhD: 2018; Presidency University

M. Sc: Botany; 2004, University of Calcutta, 79.2 %, **First Class First**

B. Sc: Botany (Hons.); 2002; Presidency College, University of Calcutta, 66.5 % [Hons.]; In part-II: First Class First (overall First Class 8th)

Higher Secondary (10+2): 1999; W.B.C.H.S.E.; 81.2 %, 1st Division*, **119th in West Bengal** (State)

Secondary (10): 1997; W.B.B.S.E.; 89.9%; 1st Division*, **38th in West Bengal** (State) & 2nd in District

Public Service Commission (PSC) Rank: First: Assistant Professors in Govt. Colleges: 2006, West Bengal, India

College Service Commission (CSC) Rank: First: Assistant Professors in Colleges: 2006, West Bengal, India

NET (CSIR-JRF & LS), 2004, Ministry of HRD, Govt. of India

SLET, 2004, College Service Commission (CSC), West Bengal, India

GATE, IIT, Bombay, 2005 with 87.89 percentile

International Recognitions

- **World Ranking of Top 2% Scientists** in 2021 database (Published: 19 October 2021) created by experts at Stanford University, USA in association with Elsevier BV and Plos Biology
- **Fellow of the Linnean Society of London in 2018** (Formation in the year 1788; ex-fellows: Sir Charles Darwin, William Roxburgh, Arthur William Hill and others)
- Nominated (invited) for **Full Membership into Sigma Xi**, The Scientific Research Honor Society, formed at Cornell University in 1886. Full Members include more than 200 Nobel Laureates (members include Albert Einstein, Enrico Fermi, Linus Pauling, Barbara McClintock, Francis Crick, James Watson, Al Gore and others)

Awards and Prizes

- **Gold medallist** for being the First Class First in M.Sc (University of Calcutta)
- Shortlisted for **Shyama Prasad Mukherjee Fellowship** for being among the top 20% of the NET-qualified candidates

in 2004 all over India

- **Prof. H. L. Chakraborty memorial award** presented by Botanical Society of Bengal for standing **First Class First** in M.Sc (University of Calcutta)
- Ranked **First** in both **PSC (Public Service Commission)** and **CSC (College Service Commission, 73.38%, joint)** College Lecturer recruitment panels, in the state of West Bengal, India for Botany in 2006
- “**Dr. P. D. Sethi Memorial Award 2015, 2017, 2020**” for the Best Research Paper on “Application of TLC/ HPTLC in Pharma, Herbal and other Analysis” awarded by Anchrom Enterprises (I) Pvt. Ltd.
- Awarded the “**outstanding contribution in reviewing**” by **Biomedicine & Pharmacotherapy, Elsevier**, in Nov. 2017
- National Prize & National Scholarship as Rank-holder in B. Sc, H.S. & Secondary in Calcutta University & West Bengal respectively
- Rank holder in Secondary (38th in West Bengal and 2nd in District) and Higher Secondary (119th in West Bengal). Was selected for Joint Entrance Examination (Engineering) in 1999.
- “Best Researcher Award” as part of International Scientist Awards 2020 on Engineering, Science and Medicine by VDGOD in 2020

Teaching career

Post Graduate: Botany and Biological/Life Sciences **15+ YEARS**

Under Graduate: Botany and Biological/Life Sciences **15+ YEARS** (Honours and Pass)

Post Graduate: Biotechnology **5 YEARS** (Guest Faculty)

1. Post Graduate Department of Botany, Presidency College, Assistant Professor in W.B.E.S; 2006-2012
2. Post Graduate Department of Botany/Biological/Life Sciences, Presidency University, Assistant Professor, 2012-Present
3. Department of Botany, Gurudas College, Kolkata; was selected but not joined.
4. Post Graduate Department of Biotechnology, Presidency University; was selected but not joined.

Taught over 1500 students directly at UG and PG levels in the last 15 years. Recommended over 100 students for PG and PhD positions in many Indian, European and American Universities

Examiner, paper-setter, moderator

Post Graduate: Department of Botany, Department of Biotechnology; Presidency College (6 years), Department of Life Sciences, Presidency University (9 years) (internal); Tripura University, University of Calcutta, Visva Bharati University; Scottish Church College, Lady Brabourne College, Aliah University (external)

Under Graduate: University of Calcutta (Hons. and Pass) (5 years), (Theoretical, Practical, external); Department of Life Sciences, Presidency University (9 years)

PhD Coursework: Presidency University (4 years)

PhD Guidance: 3 JRFs (CSIR/UGC) (ongoing)

PG/UG Dissertation Guidance: 37; PG: 28; UG: 8; other univ.: 1

Seminar/Symposium/Workshop attended/delivered: International: 3; National: 12

Oral/Poster/Abstract in Proceedings presentation: International: 3; National: 22

Orientation program/Refreshers' course: OP: 1; RC: 3

Organizing/administrative experience

1. Ex-In Charge, Boys common room, Presidency College, Kolkata from 2006-2012.
2. Ex-Member of the Placement Cell, Presidency College, Kolkata.
3. Ex-Member, Games and Sports Committee, Presidency University, 2011-2012

4. In-Charge, Games and Sports, Presidency University, 2016-Present
5. Ex-Coordinator, Departmental GenEd and GE, Presidency University, 2017-2019.
6. Member, Departmental Examination Committee, Presidency University, 2018-Present
7. Member of the local organizing committee, National Symposium on Plant Cell Tissue and Organ Culture: The Present Scenario and XXXI Annual Meeting of Plant Tissue Culture Association (India), 3-5 March, 2010, Kolkata.
8. Member of Presidency Alumni Association
9. Secretary, 3rd Annual Reunion, Department of Botany, Presidency College, Kolkata; 9th March, 2009. Joint Secretary, Annual Reunions, Department of Botany, University of Calcutta

Projects

1. Evaluation of phytopathogens associated with some major aquatic weeds with emphasis on their toxin production
Funding Agency: WB-Department of Biotechnology
Amount of Funding: 22, 13, 000 INR
2. Possible therapeutic application of some major Mangroves of Sundarban against some potent human pathogens
Funding Agency: WB-Department of Science and Technology
Amount of Funding: 11, 01, 050 INR

Consultancy Projects

1. The Sal seed– availability & scope of marketability in West Bengal, by West Bengal Forest Development Corporation Ltd. (WBFDC) (A Govt. of West Bengal undertaking) Amount of Funding: 90, 000 INR
2. The Bahera seed– availability & scope of marketability in West Bengal by West Bengal Forest Development Corporation Ltd. (WBFDC) (A Govt. of West Bengal undertaking) Amount of Funding: 90, 000 INR
3. The Mahua Flowers– availability & scope of marketability in West Bengal by West Bengal Forest Development Corporation Ltd. (WBFDC) (A Govt. of West Bengal undertaking) Amount of Funding: 90, 000 INR

Advisor and external expert

On inventorization, taxonomy and identification of medicinal plants for our ongoing project entitled "Revisiting MPCA Program (2008-09) of West Bengal in National Perspective"-2018-19. Project No. Cons/WB-01/2016, sanctioned F.No. Z.18017/ 187/CSS/ Cons/wb-01/2015-16 NMPB"

Editor

Associate Editor: BMC Complementary Medicine and Therapies (Springer Nature)

Academic Editor: Plos One

Editorial Board: Frontiers in Immunology; Frontiers in Pharmacology; Frontiers in Plant Science; Frontiers in Microbiology; Frontiers for Young Minds

Reviewer

Journals/ No. of papers	Research/ Review papers (Total)	Else vier	Spring er	Taylor and Francis	Wiley	Nature Publishin g Group	Plos	Fronti ers	B M C	Hind wai	Wolters Kluwer	S A G E	Others
Journals	78	22	8	8	6	3	1	4	4	4	1	2	15
No. of papers	123	39	9	11	10	3	1	10	7	5	1	3	21

Science of the Total Environment, Elsevier, IF: 7.963, Drug Discovery Today, Elsevier, IF: 7.851 (1); Pharmacological Research, Elsevier, IF: 7.658 (1); Neuroscientist, SAGE, IF: 7.519 (1); Frontiers in Cell and Developmental Biology: IF 6.684 (1); Horticulture

Research, Nature, IF: 6.793 (1); Process Safety and Environmental Protection, Elsevier, IF: 6.158 (1); Biomedicine & Pharmacotherapy, Elsevier, IF: 6.529 (5); Frontiers in Oncology, IF: 6.244 (2); Expert Opinion on Drug Discovery, Taylor and Francis, IF: 6.098; Frontiers in Pharmacology, IF: 5.810 (6); Phytotherapy Research, Wiley, IF: 5.878 (5); Industrial Crops and Products, Elsevier, IF: 5.645 (1); Frontiers in Molecular Neuroscience, IF: 5.639; Arabian Journal of Chemistry, Elsevier, IF: 5.165 (2); Nature and Science of Sleep, Dove Press, Taylor and Francis, IF: 5.346 (1); Chinese Medicine, BMC IF: 5.455 (1); Neural Regeneration Research, IF: 5.135 (1); Apoptosis, Springer, IF: 4.677 (1); Physiologia Plantarum, Wiley, IF: 4.5 (1); Scientific Reports, Nature Publishing Group, IF: 4.379 (2); Journal of Oncology (IF: 4.375); Environmental Science and Pollution Research, Springer, IF: 4.223 (1); BMC Plant Biology, IF: 4.215 (3); Journal of Functional Foods, Elsevier, IF: 4.451 (1); Applied Microbiology and Biotechnology, Springer, IF: 4.813 (1); European Journal of Pharmacology, Elsevier, IF: 4.432 (1); Journal of Oncology, Hindawi, IF: 4.375 (2); Journal of Ethnopharmacology, Elsevier, IF: 4.360 (4); Saudi Journal of Biological Sciences, Elsevier, IF: 4.219 (1); Drug Design, Development and Therapy, Dove Press, IF: 4.162 (1); Journal of King Saud University – Science, Elsevier, IF: 4.011 (1); Pharmaceutical Biology, Taylor and Francis, IF: 3.503 (1); Plos-One, IF: 3.240 (1); Biodiversity and Conservation, Springer, IF: 3.551 (1); Journal of Biotechnology, Elsevier, IF: 3.307 (1); BMC Complementary and Alternative Medicine, IF: 3.569 (2); Regenerative Medicine, IF: 3.806 (1); Journal of Herbal Medicine, Elsevier, IF: 3.032 (2); Journal of Applied Research on Medicinal and Aromatic Plants, Elsevier, IF: 3.4 (1); Current Pharmaceutical Biotechnology, Bentham Science, IF: 2.837 (1); Natural Product Research, Taylor and Francis, IF: 2.861 (2); Chemistry and Biodiversity, Wiley, IF: 2.408 (1); Evidence-based Complementary and Alternative Medicine, Hindawi, IF: 2.629 (1); Current Organic Chemistry, Bentham Science, IF: 2.180 (1); Science Progress, SAGE, IF: 2.774 (2); Molecular Biology Reports, Springer, IF: 2.316 (2); Acta Physiologiae Plantarum, Springer, IF: 2.354 (1); South African Journal of Botany, Elsevier, IF: 2.315 (10); ChemistrySelect, Wiley Online Library, IF: 2.109 (1); Evidence-Based Complementary & Alternative Medicine, Hindawi, IF: 2.629 (1); Brazilian Journal of Pharmacognosy, Elsevier, IF: 2.010 (1); Phytochemistry Letters, Elsevier, IF: 1.679 (1); Journal of Biosciences, Springer, IF: 1.826 (1); Journal of Essential Oil Bearing Plants, Taylor and Francis, IF: 1.699 (1); Asian Pacific Journal of Tropical Medicine, Elsevier, IF: 1.226 (1); Biologia, Springer, IF: 1.350 (1); Alternative Therapies in Health and Medicine, IF: 1.305; Pharmnagogosy Magazine, Wolters Kluwer, IF: 1.085 (1); Indian Journal of Experimental Biology, CSIR, IF: 0.818 (2); Indian Journal of Traditional Knowledge, CSIR, IF: 0.757 (2); Journal of Medicinal Plants Research (5); Journal of Food and Drug Analysis, Elsevier (1); BMC Research Notes (1); Indian Journal of Natural Products and Resources, CSIR (1); Current Nutrition & Food Science, Bentham Science, Indexed in SCI-E (1); Journal of Herbs, Spices and Medicinal Plants, Taylor and Francis (1); Forests, Trees and Livelihoods, Taylor and Francis (1); Journal of Taibah University Medical Sciences, Elsevier (1); Advances in Integrative Medicine, Elsevier (1); Journal of Biologically Active Products from Nature, Taylor and Francis (3); Journal of Intercultural Ethnopharmacology, Indexed in PubMed (1); Ancient Science of Life, The Ayurvedic Trust, Indexed in PubMed (1); Journal of Neurosciences in Rural Practice, Indexed in PubMed (1); AIMS Molecular Science, Indexed in SCI-E (1); People and nature, Wiley (1); Cleaner Chemical Engineering, Elsevier (1); CLEAN soil air water, Wiley (2), Nucleus, Springer (1), Drugs of the future (1)

Reviewer (Research proposal, international)

National Research, Development and Innovation (NRDI), Hungary

Reviewer (Book series/Encyclopaedia)

1. Studies in Natural Products Chemistry (Bioactive Natural Products), (Book Series), Edited by Prof. Atta-ur Rahman ISBN: 13: 978-0-444-59603-1; Elsevier Science Publishers, Amsterdam
2. UNESCO-EOLSS entitled “Beneficial Health Effects of Lupeol Triterpene and Medicinal Properties.”

Reviewer (Book proposal)

1. Cambridge University Press, UK
2. CRC Press, Taylor and Francis Group, UK

Editor (Book/Thematic issue)

1. Thematic issue entitled "Fighting antimicrobial resistance with natural products- current developments and future prospects" in "**Current Topics in Medicinal Chemistry**" (Impact Factor 3.295). Eds. Vinay Kumar, Dr. Varsha Shriram and Dr. Abhijit Dey, Ongoing. <https://benthamscience.com/journals/current-topics-in-medicinal-chemistry/special-issues/>
2. Edited book: “Medicinal Plant Resources for Complementary and Alternative Antimicrobial Therapies” proposed to **Springer Nature**. Eds. Vinay Kumar, Varsha Sriram and Abhijit Dey, Proposal approved.

3. Edited book: "Biohydrometallurgical processes: Extraction and recovery of metals." Book Series: Microbial Biotechnology for environment, energy and health. **Taylor & Francis/CRC Press, UK.** Dr. Satarupa Dey, Dr. Abhijit Dey, Dr. Ashok Kumar Nadda (Eds.), Ongoing.
4. Edited Book: "Microbial tools for sustainable waste management" proposed to **Elsevier**, Dr. Satarupa Dey, Dr. Abhijit Dey (Eds.), Ongoing.
5. Edited Book: "Medicinal and Aromatic Plants: Ethnobotany, Pharmacognosy and Therapeutic Potentials" proposed to **Taylor & Francis/CRC Press, UK.** Dr. Swamy MK, Dr. Abhijit Dey (Eds.), Ongoing.

Editorial courses/Webinar

1. 'Options in article publishing: open access or a traditional journal?' Presented by Els Bosma, Program Director STMJ Open Access, 28th October, 2014, Publishing Connect Webinar. Elsevier Publishing Campus,
2. 'How reviewers look at your paper' Presented by Jaap van Harten, Executive Publisher, October 2014, Publishing Connect Webinar, Elsevier Publishing Campus.
3. 'Wrapping your brain around encephalopathy documentation, coding and severity issues.' July 19, 2018, Webinar by American Health Information Management Association (AHIMA) and Elsevier.
4. "How to be an effective peer reviewer" Webinar training: Organized by Taylor and Francis Reviewer Training Network on 29th April 2020.

Advisory committee member

1. National conference on Advances in Life Sciences, 19th and 20th Jan, 2018, organized by Pune University, Pune, India.
2. UGC-IQAC sponsored international seminar on "Biological Sciences in Human Welfare" on 9th July, 2018 organized by RBC College, Naihati, India.

Resource Person/Convener/Chair/Mentor/Organizing experience

1. **Resource Person** at Winter School on "**Plant Chromosomes and Biomolecules**", 24-29 December, 2007, Organized by The Department of Botany, Presidency College, Kolkata.
2. **Resource Person** at Winter School on "**Plant Chromosomes and Biotechnology**", 24-29 December, 2008, Organized by The Department of Botany, Presidency College, Kolkata.
3. **Member** of the local organizing committee, National Symposium on Plant Cell Tissue and Organ Culture: The Present Scenario and XXXI Annual Meeting of Plant Tissue Culture Association (India), 3-5 March, 2010, Kolkata.
4. **DBT Star College** programme sponsored by DBT, Govt. of India, participated in guiding UG students in Department of Botany, Presidency College (2010).
5. **Joint Convener** in a 2 days' workshop on "Applications of HPTLC in determination of bioactive compounds" held on 7th and 8th October, 2013 organized by the Department of Botany, Presidency University.
6. **Convener**, Poster Committee, National Symposium on "Environmental Impact on Biodiversity and Plant Development" organized by the Department of Biological Sciences, Presidency University on 19.2.2015-20.2.2015.
7. **Chairperson and lead speaker** in two sessions in International Seminar on "Exploring The Modern Approach in Biological Science: From Genome to Organism" Organized by Department of Zoology, Sidho-Kanho-Birsha University Purulia, West Bengal during November 25-27, 2015.
8. **Co-chairman and rapporteur** in two technical sessions at the 23rd West Bengal State Science and Technology Congress, 2016 during 28-29 February, 2016.
9. **Certified Publons Academy Mentor, 2020.** A verified mentor to a student of the Publons Academy Practical Peer Review Training Course on the 18th of September 2020.
10. **Invited lecture** at Rayat Shikshan Sanstha's Arts, Science & Commerce College, Ramanandnagar (Burla), Department of Zoology & Botany in collaboration with IQAC Organized e - National Conference on Scope of Life Sciences in Disease Management (SLDM) on "Natural products against COVID19" held on 11.7. 2020.
11. **Invited lecture** at DBT Star National Lecture series on "CRISPR/Cas and Genome Editing in Plants with a special note on Natural Product Research" organized by the Modern College, Ganeshkhind, Pune held on 01-02-2021.

Memberships

1. Affiliate member, Royal Society of Chemistry (RSC), UK
2. Member 2021-2025, IUCN Commission on Ecosystem Management (CEM)

3. Associate Member, International Society for Development and Sustainability (ISDS), Japan
4. Annual Member, 2015, International Society of Ethnobiology, Bristol, UK
5. Member, SILAE-Società Italo-Latinoamericana di Etnomedicina (Italo-Latinamerican Society of Ethnomedicine), Italy
6. Member, International Society of Infectious Diseases (ISID), Brookline, MA, USA
7. Member, International Association of Academicians-IAASSE, USA
8. Member, International Society of Intraoperative Radiation Therapy (ISIORT), Austria
9. Ex-annual member, Indian Science Congress Association, India
10. General Body Member, Archana Sharma Foundation of Calcutta (ASFC), Kolkata, India
11. Member, Advisory Committee and Award and Recognition Committee of the "Society for Green Environmental (SGE)" New Delhi, India

Ongoing collaborations (Laboratory/Editorial)

Inter-university		National	International
intra-departmental	inter-departmental	universities/colleges/Institutes in India	universities/Institutes outside India
8	7	120	135*

*country-wise collaborations: Australia, Austria, Brazil, Bulgaria, Canada, Chile, China, Czech Republic, Ecuador, Egypt, Ethiopia, Finland, France, Georgia, Germany, Hong Kong, Hungary, Iran, Iraq, Ireland, Israel, Italy, Japan, Jordan, Kenya, Malaysia, Mexico, Morocco, Nepal, Oman, Peru, Poland, Portugal, Puerto Rico, Qatar, Republic of Belarus, Republic of Korea, Romania, Saudi Arabia, South Africa, Spain, Tajikistan, Taiwan, Turkey, UAE, UK, USA

Research Expertise/Keywords

Natural products; Neuro-protection; Anti-diabetics; Anti-cancer; Biomaterials; Biomedicine; Environment; Ethnobiology; Ethnopharmacology; Ethno-toxicology; Plant biotechnology; Genetic transformation; Transgenics; Plant tissue culture; Phytochemistry; Chromatography; Mathematical modelling; Process optimization; Quality control; Chemotaxonomy; Phytochemical genomics; Elicitation; Plant and microbial secondary metabolomics; Anti-microbials; Nano and materials; Drug-resistance reversal; Alkaloids; Nutraceuticals; Endophytes; Molecular taxonomy; Molecular docking; Phylogeny; Phytoremediation; Cytology; Cyto-taxonomy; Pharmacology; Network pharmacology; Toxicology; Plant stress biology; Biodiversity; Bryology

Extra-curricular activities: biodiversity enthusiast, wildlife photography, travelling, hiking and trekking, mountain biking, cycling, cricket, table-tennis, gym, work-out and nutrition, optimizing cognition, books and movies, music, scientific, creative and popular writing, philately, numismatics and philumeny

Dr. Dey's research in news (media/newspaper)

A tribute to Jagadish Bose, who proved plants have life - Telegraph India (<https://www.telegraphindia.com/culture/a-tribute-to-jagadish-bose-who-proved-plants-have-life/cid/1676396>)

Publications

Total impact factor: 647.218. Total publications: 253

Highest impact factor for a paper: 18.5

IF papers: 140; above 10:4; above 6:30; above 5:54; above 4:83; above 3:101; above 2:129; above 1:136

Google Scholar citations: 4455 (till May, 2022); h-index: 35; i10-index: 100; RG score: 35.76

2010-2019: total impact factor: 63.245; Total publications: 47

2020: total impact factor: 65.375. Total publications: 24

2021: total impact factor: 243.944. Total publications: 71

2022: total impact factor: 282.082. Total publications: 111

Total	Elsevier	Springer	Taylor and Francis/AAP/CRC Press	Wiley	BMC	BMJ	Nature Publishing Group	Plos	Oxford University Press	Frontiers	Royal Society, UK	MDPI	Hindawi	Bentham	Others
253	97	65	32	10	3	1	1	3	1	11	1	11	3	4	10

1. Das T, Anand, U., Pandey SK, Ashby Jr., Assaraf YG, Chen ZS, **Dey A***, 2021. Therapeutic strategies to overcome taxane resistance in cancer. **Drug Resistance Updates.** 55, 100754. **Elsevier, Impact Factor: 18.5**
2. Anand, U., Nandy, S., Mundhra, A., Das, N., Pandey, D.K. and **Dey, A.***, 2020. A review on antimicrobial botanicals, phytochemicals and natural resistance modifying agents from Apocynaceae family: Possible therapeutic approaches against multidrug resistance in pathogenic microorganisms. **Drug Resistance Updates.** 51, 100695. **Elsevier, Impact Factor: 18.5**
3. Jha NK, Arfin S, Jha SK, Kar R, **Dey A**, Gundamaraju R, Ashraff GM, Gupta PK, Dhanasekaran S, Abomughaid MM, Das S, Singh SK, Dual K, Roychoudhury S, Kumar D, Ruokolainen J, Ojha S, Kesar KK, 2022; Re-establishing the comprehension of phytomedicine and nanomedicine in inflammation-mediated cancer signalling. **Seminars in Cancer Biology. Impact Factor: 15.707**
4. **Dey, A.***, Bhattacharya, R, Mukherjee, A., Pandey, D.K., 2017. Natural products against Alzheimer's disease: Pharmaco-therapeutics and biotechnological interventions. **Biotechnology Advances.** 35(2): 178-216. **Impact Factor: 14.227. Elsevier.**
5. Kumar M, Hasan, M, Choyal, P, Tomar, M, Gupta OP, Sasi M; Changan S, Punia, S, Singh, S, Sampathrajan, V, Dhumal, S, R. Pandiselvam, Sharma, K, Satankar, V, Waghmare, R, Senapathy, M, Sayed, AAS, Radha, **Dey A**, Amarowicz, R, Kennedy, JF., 2022. Cottonseed feedstock as a source of plant-based protein and bioactive peptides: Evidence based on biofunctionalities and industrial applications. **Food Hydrocolloids. Impact Factor: 9.147. Elsevier.**
6. Kumar M, Selvasekaran P, Kapoor S, Barbhaia MD, Lorenzod JM, Saurabh V, Potkule J, Changan S, Kelishi AE, Selim S, Sayed AAS, Radha, Singh S, Senapathy, M, R. Pandiselvam, **Dey A**, Dhumal S, Natta S, Amarowicz, R, Kennedy, JF., 2022. Moringa oleifera Lam. seed proteins: Extraction, preparation of protein hydrolysates, bioactivities, functional food properties, and industrial application. **Food Hydrocolloids. Impact Factor: 9.147. Elsevier.**
7. Kumar V, Ameen F, Islam MA, Agrawal S, Motghare A, **Dey A**, Shah MP, Américo-Pinheiro JHP, Singh S, Ramamurthy PC, 2022. Evaluation of cytotoxicity and genotoxicity effects of refractory pollutants of untreated and biomethanated distillery effluent using *Allium cepa*. **Environmental Pollution. Impact Factor: 8.071. Elsevier.**
8. Kumar R, Ivy N, Bhattacharya S, **Dey A**, Sharma P, 2022. Coupled effects of microplastics and heavy metals on plants: uptake, bioaccumulation, and environmental health perspectives. **Science of the Total Environment. Impact Factor: 7.963. Elsevier.**
9. Anand U, Carpena M, Kowalska-Góralaska M, Garcia-Perez P, Sunita K, Bontempi E, **Dey A**, Prieto M.A., Proćków J, Simal-Gandara J., 2022. Safer plant-based nanoparticles for combating antibiotic resistance in bacteria: A comprehensive review on its potential applications, recent advances, and future perspective. Accepted. **Science of the Total Environment. Impact Factor: 7.963. Elsevier.**

10. **Dey, A. ***, 2021. CRISPR/Cas genome editing to optimize pharmacologically active plant natural products. **Pharmacological Research**. 164: 105359. **Impact Factor: 7.658. Elsevier.**
11. de la Lastra JMP, Anand U, González-Acosta S, R López M, **Dey A**, Bontempi E, De La Nuez AJM, 2022. Antimicrobial resistance in the COVID-19 landscape: Is there an opportunity for anti-infective antibodies and antimicrobial peptides? **Frontiers in Immunology**. **Impact Factor: 7.561**
12. Hasan, M, Lorenzo, JM, Dhumal, S; Nishad, J; Singh, S; Verma, A; Changan, S; Radha; Pandiselvam, R; Senapathy, M; Satankar, V; **Dey, A**; Rais, N; Anitha, T; Amarowicz, R; Mekhemar, M.; Kumar M, 2022. Jamun (*Syzygium cumini* (L.) Skeels) seed bioactives and its biological activities: A review. **Food Chemistry**. **Impact Factor: 7.514**. Accepted.
13. Anand U, **Dey A[#]**, Chandel AKS[#], Sanyal R, Mishra A *, Pandey DK, De Falco V, Upadhyay A, Kandimalla R, Chaudhary A, Dhanjal JK, Dewanjee S, Vallamkondu J, dela Lastra JSM, 2022. Cancer chemotherapy and beyond: Current status, drug candidates, associated risks and progress in targeted therapeutics. **Genes and Diseases**. **Impact Factor: 7.103**.
14. Sharma K, Waghmare R, Suhag R, Gupta OP, Prakash S, Radha, Thappa C, Ali Sayed AAS, Singh S, Senapathy M, Pandiselvam R, **Dey A**, Dhumal S, Amarowicz, R, Kennedy JF, Kumar M, 2022. Moringa (*Moringa oleifera* Lam.) polysaccharides: Extraction, Characterization, Bioactivities, and Industrial application. **International Journal of Biological Macromolecules**. **Impact Factor: 6.953**. In Press.
15. Bhattacharyya N, Pandey V., Bhattacharyya M, **Dey A.*** 2021. Regulatory role of long non coding RNAs (lncRNAs) in neurological disorders: From novel biomarkers to promising therapeutic strategies. **Asian Journal of Pharmaceutical Sciences**. **Impact Factor: 6.598**.
16. Paul S, Chakraborty S, Anand U, Dey S, Nandy S, Ghorai M, Saha SC, Patil MK, Kandimalla R, Proćków J, **Dey A***, 2021. *Withania somnifera* (L.) Dunal (Ashwagandha): A comprehensive review on ethnopharmacology, pharmacotherapeutics, biomedical and toxicological aspects. **Biomedicine & Pharmacotherapy**. **Impact Factor: 6.529**.
17. Mitra S, Anand U, Sanyal R, Jha NK, Behl T, Mundhra A, Ghosh A, Radha, Kumar M, Proćków J, **Dey A***, 2022. Neoechinulins: molecular, cellular, and functional attributes as promising therapeutics against cancer and other human diseases. **Biomedicine & Pharmacotherapy**. **Impact Factor: 6.529**. Accepted.
18. Barbhai MD, Hasan M, Punia S, Dhumal S, Radha, Rais N, Chandran D, Pandiselvam R, Kothakota A, Tomar M, Satankar V, Senapathy M, Anitha T, **Dey A**, Sayed AAS, Gedallah FM, Amarowicz R, Mekhemar M, 2022. Onion (*Allium cepa* L.) peels: A review on bioactive compounds and biomedical activities. **Biomedicine & Pharmacotherapy**. **Impact Factor: 6.529**. Accepted.
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