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
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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 (class 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
College Service Commission (CSC) Rank: **First**: Assistant Professors in Colleges: 2006
NET (CSIR-JRF & LS), 2004, Ministry of HRD, Govt. of India
SLET, 2004, College Service Commission (CSC), West Bengal
GATE, IIT, Bombay, 2005 with 87.89 percentile

Fellow

Fellow of the Linnean Society of London, 2018 (Formation in the year 1788; ex-fellows: Sir Charles Darwin, William Roxburgh, Arthur William Hill and others)

Awards and Prizes

1. Shortlisted for **Shyma Prasad Mukherjee Fellowship** for being amongst the top 20% of the NET-qualified candidates in 2004.
2. Ranked **First** in both **PSC** (**Public Service Commission**) and **CSC** (73.38%, joint, to join Gurudas College, Kolkata) College Lecturer recruitment panels for Botany in 2006.
3. Rank holder in Secondary (38th in West Bengal and 2nd in District) and Higher Secondary (119th in West Bengal). Selected for Joint Entrance Examination (Engineering) in 1999.
4. Gold medallist for standing First Class First in M.Sc Examination (University of Calcutta)
5. Winner of **Prof. H. L. Chakraborty memorial award** presented by Botanical Society of Bengal for

standing **First Class First** in M.Sc
6. Winner of National Prize & National Scholarship as Rank-holder in B. Sc, H.S. & Secondary in Calcutta University & West Bengal respectively
7. "**Dr. P. D. Sethi Memorial Award** 2015, 2017" for the Best Research Paper on "Application of TLC/ HPTLC in Pharma, Herbal and other Analysis" awarded by Anchrom Enterprises (I) Pvt. Ltd.
8. Awarded the "**outstanding contribution in reviewing**" by **Biomedicine & Pharmacotherapy**, Elsevier, Impact Factor: 4.545, in Nov. 2017
9. "Best Researcher Award" as part of International Scientist Awards 2020 on Engineering, Science and Medicine by VDGOOD in 2020.

Teaching career

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; selected but not joined.
4. Post Graduate Department of Biotechnology, Presidency University, selected but not joined.

Teaching experience

Post Graduate: Botany and Biological/Life Sciences **14+ YEARS**
Under Graduate: Botany and Biological/Life Sciences **14+ YEARS** (Honours and Pass)
Post Graduate: Biotechnology **5 YEARS** (Guest Faculty)

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 (7 years)

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

PG/UG Dissertation Guidance: 31; PG: 22; 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
Role: Co PI
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
Role: Co PI
Funding Agency: WB-Department of Science and Technology
Amount of Funding: 11, 01, 050 INR

Editor

Associate Editor: BMC Complementary Medicine and Therapies (Springer Nature)
Editorial Board: Plos One; Frontiers in Pharmacology

Reviewer

Journals/ No. of papers	Research/ Review papers (Total)	Elsevier	Springer	Taylor and Francis	Wiley	Nature Publishing Group	Plos	Frontiers	BMC	Hindawi	Wolters Kluwer	SAGE	Others
Journals	58	17	4	5	4	3	1	3	3	1	1	1	15
No. of papers	94	32	4	8	7	3	1	7	6	1	1	2	21

1. Drug Discovery Today, Elsevier, Impact factor: 7.851 (1)
2. Pharmacological Research, Elsevier, Impact factor: 7.658 (1)
3. Frontiers in Cell and Developmental Biology: Impact factor 6.684 (1)
4. Horticulture Research, Nature, Impact factor: 6.793 (1)
5. Process Safety and Environmental Protection, Elsevier, Impact factor: 6.158 (1)
6. Biomedicine & Pharmacotherapy, Elsevier, Impact Factor: 6.529 (4)
7. Frontiers in Oncology, Impact factor: 6.244 (1)
8. Frontiers in Pharmacology. Impact factor: 5.810 (5)
9. Phytotherapy Research, Wiley, Impact Factor: 5.878 (4)
10. Arabian Journal of Chemistry, Elsevier, Impact Factor: 5.165 (1)
11. Neural Regeneration Research, Impact Factor: 5.135 (1)
12. Physiologia Plantarum, Wiley, Impact Factor: 4.5 (1)
13. Scientific Reports, Nature Publishing Group, Impact Factor: 4.379 (2)
14. BMC Plant Biology, Impact Factor: 4.215 (3)
15. Journal of Functional Foods, Elsevier, Impact Factor: 4.451 (1)
16. Applied Microbiology and Biotechnology, Springer, Impact Factor: 4.813 (1)
17. European Journal of Pharmacology, Elsevier, Impact factor: 4.432 (1)
18. Journal of Ethnopharmacology, Elsevier, Impact Factor: 4.360 (4)
19. Drug Design, Development and Therapy, Dove Press, Impact Factor: 4.162 (1)
20. Journal of King Saud University – Science, Elsevier, Impact Factor: 4.011 (1)
21. Plos-One, Impact Factor: 3.240 (1)
22. Journal of Biotechnology, Elsevier, Impact Factor: 3.307 (1)
23. BMC Complementary and Alternative Medicine, Impact Factor: 3.569 (2)
24. Regenerative Medicine, Impact Factor: 3.806 (1)

25. Journal of Herbal Medicine, Elsevier, Impact Factor: 3.032 (2)
26. Current Pharmaceutical Biotechnology, Bentham Science, Impact Factor: 2.837 (1)
27. Natural Product Research, Taylor and Francis, Impact Factor: 2.861 (2)
28. Current Organic Chemistry, Bentham Science, Impact Factor: 2.180 (1)
29. Science Progress, SAGE, Impact Factor: 2.774 (2)
30. Molecular Biology Reports, Springer, Impact Factor: 2.316 (1)
31. Acta Physiologiae Plantarum, Springer, Impact Factor: 2.354 (1)
32. South African Journal of Botany, Elsevier, Impact Factor: 2.315 (10)
33. ChemistrySelect, Wiley Online Library, Impact Factor: 2.109 (1)
34. Evidence-Based Complementary & Alternative Medicine, Hindwai, Impact Factor: 2.629 (1)
35. Brazilian Journal of Pharmacognosy, Elsevier, Impact Factor: 2.010 (1)
36. Phytochemistry Letters, Elsevier, Impact Factor: 1.679 (1)
37. Journal of Biosciences, Springer, Impact factor: 1.826 (1)
38. Journal of Essential Oil Bearing Plants, Taylor and Francis, Impact Factor: 1.699 (1)
39. Asian Pacific Journal of Tropical Medicine, Elsevier, Impact Factor: 1.226 (1)
40. Pharmnacognosy Magazine, Wolters Kluwer, Impact Factor: 1.085 (1)
41. Indian Journal of Experimental Biology, CSIR, Impact factor: 0.818 (2)
42. Indian Journal of Traditional Knowledge, CSIR, Impact factor: 0.757 (2)
43. Journal of Medicinal Plants Research (5)
44. Journal of Food and Drug Analysis, Elsevier (1)
45. BMC Research Notes (1)
46. Indian Journal of Natural Products and Resources, CSIR (1)
47. Current Nutrition & Food Science, Bentham Science, Indexed in SCI-E (1)
48. Journal of Herbs, Spices and Medicinal Plants, Taylor and Francis (1)
49. Forests, Trees and Livelihoods, Taylor and Francis (1)
50. Journal of Taibah University Medical Sciences, Elsevier (1)
51. Advances in Integrative Medicine, Elsevier (1)
52. Journal of Biologically Active Products from Nature, Taylor and Francis (3)
53. Journal of Intercultural Ethnopharmacology, Indexed in PubMed (1)
54. Ancient Science of Life, The Ayurvedic Trust, Indexed in PubMed (1)
55. Journal of Neurosciences in Rural Practice, Indexed in PubMed (1)
56. AIMS Molecular Science, Indexed in SCI-E (1)
57. People and nature, Wiley (1)

Reviewer (Research proposal, international)

National Research, Development and Innovation (NRDI), Hungary

Reviewer (Book series)

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

Reviewer (Book proposal)

Cambridge University Press, UK

Editorial/Advisory board members

1. International Journal of Pharmacology, Impact Factor: 1.503
2. Current Aging Science, Bentham Science
3. Current Traditional Medicine, Bentham Science (Sharing with Prof. Ferid Murad, Noble Laurate)
4. Journal of Intercultural Ethnopharmacology, PubMed (Former)
5. Research Journal of Botany, Thomson ISI indexed
6. International Journal of Botany, Thomson ISI indexed

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 (Burli), 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. International Society of Ethnobiology, Bristol, UK
2. SILAE-Società Italo-Latinoamericana di Etnomedicina (Italo-Latinamerican Society of Ethnomedicine)
3. International Association of Academicians-IAASSE, USA
4. International Society of Intraoperative Radiation Therapy (ISIORT), Austria
5. International Society of Infectious Diseases (ISID), Brookline, MA
6. Indian Science Congress Association
7. International Society for Development and Sustainability (ISDS), Japan

Ongoing collaborations (Laboratory/Editorial)

National			International
intra-departmental	inter-departmental	universities/colleges/Institutes in India	universities/Institutes outside India
8	5	40	50*

*country-wise collaborations: Australia, Brazil, Chile, China, Egypt, Ethiopia, France, Georgia, Hungary, Iran, Iraq, Israel, Italy, Japan, Jordon, Malaysia, Mexico, Morocco, Nepal, Oman, Portugal, Puerto Rico, Qatar, Republic of Belarus, Republic of Korea, Romania, Saudi Arabia, South Africa, Spain, Tajikistan, Turkey, UK, USA

Research Expertise/Keywords

Natural products, Ethnobiology, Ethnopharmacology, Ethno-toxicology, Plant biotechnology, Genetic transformation, Transgenics, Plant tissue culture, Phytochemistry, Chromatography, Mathematical modelling, Process optimization, Quality control, Chemotaxonomy, Elicitation, Secondary metabolomics, Anti-microbials, Drug-resistance reversal, Alkaloids, Nutraceuticals, Neuro-protection, Endophytes, Molecular taxonomy, Molecular docking, Phylogeny, Cytology, Cyto-taxonomy, Pharmacology, Network pharmacology, Toxicology, Plant stress biology, Biodiversity, Bryology, Meta-analyses

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

Publications

Total impact factor: 273.318. Total publications: 119
Highest impact factor for a paper: 18.5
Impact factor papers: 67; above 10: 3; above 5: 19; above 4: 32; above 3: 40; above 2: 60; above 1: 64
Google Scholar citations: 2698 (till June, 2021); h-index: 28; i10-index: 53; RG score: 31.44

Research/review papers/book chapters

Total	Elsevier	Springer	Taylor and Francis	Wiley	BMC	BMJ	Plos	Frontiers	Bentham	Others
119	52	32	11	5	3	1	2	4	2	7

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. **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. **Elsevier**, **Impact Factor: 14.227**

4. **Dey, A. ***, 2021. CRISPR/Cas genome editing to optimize pharmacologically active plant natural products.

Pharmacological Research. 164: 105359. **Impact Factor: 7.658. Elsevier.**

5. 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.** In Press.

6. Sharifi-Rad, J, Bahukhandi, A, Sati P, Capanoglu E, Docea AO, Al-Harrasi A, **Dey A,** Calina D, 2021. The Therapeutic Potential of Neoechinulins and their Derivatives: an overview of the molecular mechanisms behind pharmacological activities. **Frontiers in Nutrition. Impact Factor: 6.576.** Accepted.

7. **Dey, A.***, Hazra, A.K., Nandy, S., Kaur, P. and Pandey, D.K., 2020. Selection of elite germplasms for industrially viable medicinal crop *Bacopa monnieri* for bacoside A production: An HPTLC-coupled chemotaxonomic study. **Industrial Crops and Products,** *158*, p.112975. **Impact Factor: 5.645. Elsevier**.

8. Nandy, S., Hazra, A.K., Pandey, D.K., Ray, P., **Dey, A.*** 2021. Elicitation of industrially promising vanillin type aromatic compound 2-hydroxy 4-methoxy benzaldehyde (MBAlD) yield in the *in-vitro* raised medicinal crop *Hemidesmus indicus* (L) R. Br. by methyl jasmonate and salicylic acid. **Industrial Crops and Products, Impact Factor: 5.645. Elsevier**.

9. Kaur P, Gupta RC, **Dey A***, Pandey DK, 2019. Simultaneous quantification of oleanolic acid, ursolic acid, betulinic acid and lupeol in different populations of five *Swertia* species by using HPTLC-densitometry: Comparison of different extraction methods and solvent selection. **Industrial Crops and Products**. 130:537-546. **Elsevier**, **Impact Factor: 5.645.**

10. Kaur P, Pandey DK, Gupta RC, **Dey A**, 2019. Simultaneous microwave assisted extraction and HPTLC quantification of mangiferin, amarogentin, and swertiamarin in *Swertia* species from Western Himalayas. **Industrial Crops and Products**. 132: 449-459. **Elsevier**, **Impact Factor: 5.645.**

11. Kaur P, Pandey DK, Gupta RC, **Dey A***, 2019. Assessment of genetic diversity among different population of five *Swertia* species by using molecular and phytochemical markers. **Industrial Crops and Products**. 138:111569. **Elsevier**, **Impact Factor: 5.645.**

12. Tandon B, Anand U, AlexBK, Kaur P, Nandy S, Shekhawat MS, Sanyal R, Pandey DK, Koshy EP, Dey A*, 2021. Statistical optimization of in vitro callus induction of wild and cultivated varieties of *Mucuna pruriens* L. (DC.) using response surface methodology and assessment of L-Dopa biosynthesis. **Industrial Crops and Products**. **Elsevier**, **Impact Factor: 5.645.** Accepted.

13. Batiha, GES, Hussain DE, Algammal AL, George TT, Jeandet P, Al-Snafi AE, Tiwari A, Pagnosa JP, Lima CM, Thorat ND, Zahoor M, El-Eswai M, **Dey A**, Alghamdi S, Hetta HF, Cruz-Martins N, 2021. Application of natural antimicrobials in food preservation: Recent views. **Food Control.** 126: 108066. **Elsevier**, **Impact Factor: 5.548**

14. Sharifi-Rad M, Yılmaz YB, Antika G, Salehi B, Tumer TB, Venil CK, Das G, Patra JK, Karazhan N, Akram M, Iqbal M, Imran M, Sen S, Acharya A, **Dey A***, Sharifi-Rad J*, 2021. Phytochemical constituents, biological activities and health promoting-effects of the genus *Origanum*. **Phytotherapy Research.** 35(1), 95-121. **Impact Factor: 5.878. John Wiley, Germany.**

15. Banerjee S, Anand U, Ghosh S, Ray D, Ray P, Nandy S , Deshmukh GD, Tripathi V, **Dey A***, 2021. Bacosides

from *Bacopa monnieri* extract: An overview of the effects on neurological disorders. **Phytotherapy Research. Impact Factor: 5.878. John Wiley, Germany.** Accepted.

16. Sharifi-Rad, J*****; Chmakhi, I., El Omari, N;, Balahbib, A; Bouyaha, AH; Akram, M; Iqbal, M; Docea, AO; Caruntu, C; Leyva-Gómez, G; **Dey, A.***; Martorell, M; Calina, D., López, V.; Les, F. 2021. Pharmacological properties of chalcones: Efficacy, molecular mechanisms, and clinical applications. Accepted. doi: 10.3389/fphar.2020.592654. **Frontiers in Pharmacology**. **Impact Factor: 5.810**

17. Sharifi-Rad, J*****; **Dey, A.,** Koirala N, Shaheen S, El Omari N, Salehi B, Goloshvili T, Silva N, Bouyahya AH, Vitalini S, Varoni EM, Martorell M , Abdolshahi A, Docea AO, Iriti M, Calina D, Les F, López V, Caruntu C. 2021. Cinnamomum Species: Bridging Phytochemistry Knowledge, Pharmacological Properties and Toxicological Safety for Health Benefits. **Frontiers in Pharmacology. Impact Factor: 5.810** Accepted.

18. Khare, TS, Anand, U., **Dey A,** Assaraf YG, Chen Z-S, Liu Z, Kumar V., 2021. Exploring phytochemicals for combating antibiotic resistance in microbial pathogens. **Frontiers in Pharmacology. Impact Factor: 5.810** Accepted.

19. **Dey, A.***, Hazra, A.K., Mukherjee, A., Nandy, S. and Pandey, D.K., 2021. Chemotaxonomy of the ethnic antidote *Aristolochia indica* for aristolochic acid content: implications of anti-phospholipase activity and genotoxicity study. **Journal of Ethnopharmacology**, p.113416. **Impact Factor: 4.360. Elsevier**.

20. **Dey A**, Gorai P, Mukherjee A, Dhan R, Modak BK. 2017, Ethnobiological treatments of neurological conditions in the Chota Nagpur Plateau, India. **Journal of Ethnopharmacology,** 198: 33-44. **Impact Factor: 4.360. Elsevier**.

21. Modak, BK, Gorai, P., Dhan, R., Mukherjee, A., **Dey, A.***, 2015. Tradition in treating taboo: Folkloric medicinal wisdom of the aboriginals of Purulia district, West Bengal, India against sexual, gynaecological and related disorders. **Journal of Ethnopharmacology,** 169:370-386. **Impact Factor: 4.360. Elsevier**.

22. **Dey, A.** and De, J.N., 2012. Ethnomedicinal plants used by the tribals of Purulia district, West Bengal, India against gastrointestinal disorders. **Journal of Ethnopharmacology,** 143(1): 68-80. **Impact Factor: 4.360. Elsevier**.

23. Nandy S, Mukherjee A, Pandey DK, Ray P, **Dey A***, 2020. Indian Sarsaparilla (*Hemidesmus indicus*): Recent progress in research on ethnobotany, phytochemistry and pharmacology. **Journal of Ethnopharmacology**. 254, 112609. **Impact Factor: 4.360. Elsevier**.

24. Kaur, P., Gupta, R. C., **Dey, A.*,** Malik, T., & Pandey, D. K., 2020. Optimization of salicylic acid and chitosan treatment for bitter secoiridoid and xanthone glycosides production in shoot cultures of *Swertia paniculata* using response surface methodology and artificial neural network. **BMC Plant Biology**, 20, 1-13. **Impact Factor: 4.215.**

25. Pandey DK, Kaur P, Kumar V, Banik RM, Malik T, **Dey A***, 2021. Screening the elite chemotypes of *Gloriosa superba* L. in India for the production of anticancer colchicine: Simultaneous microwave-assisted extraction and HPTLC studies, **BMC Plant Biology**, In Press. **Impact Factor: 4.215.**

26. Nandy, S., Singh, J., Pandey DK, **Dey A***, 2020. *Hemidesmus indicus* L. Br.: Critical assessment of in-vitro biotechnological advancements and perspectives. **Applied Microbiology and Biotechnology**. 104, 517–

854. **Impact Factor: 4.813.**

27. Nazir, R., Kumar, V., Gupta, S., Dwivedi, P., Pandey DK, **Dey A*,** 2021. Biotechnological strategies for the sustainable production of diosgenin from *Dioscorea* spp. **Applied Microbiology and Biotechnology**. 105, 569–585. **Impact Factor: 4.813.**

28. Kaur P, Pandey DK, Gupta RC, Kumar V, Dwivedi, P., Sanayal R, **Dey A*,** 2021. Biotechnological interventions and genetic diversity assessment in *Swertia* sp.: a myriad source of valuable secondary metabolites. **Applied Microbiology and Biotechnology**. 105, 4427–4451. **Impact Factor: 4.813.**

29. Sharifi-Rad J, Quispe C, Alfred MA, Kumar NVA, Lombardi N, Cinquanta L, Iriti M, Varoni EM, Gupta G, Chellappan DK, Dua K, Cardoso SM, Peron G, **Dey A***, NatáliaCruz-Martins, Suleria HAR, Rodrigues CF, 2021. Current trends on resveratrol bioactivities to treat periodontitis. **Food Bioscience Impact Factor: 4.240.**

30. **Dey A***, Nandy S, 2021. CRISPER/Cas in plant natural product research: therapeutics as anticancer and other drug candidates and recent patents. **Recent Patents on Anti-Cancer Drug Discovery. Impact Factor: 4.169.** Accepted.

31. Nazir R, Pandey DK, Pandey B, Kumar V, Dwivedi P, Khampariya A, **Dey A***, Malik T, 2021. Optimization of diosgenin extraction from *Dioscorea deltoidea* tubers using response surface methodology and artificial neural network modelling. **Plos One. Impact Factor: 3.240.** Accepted.

32. Modak BK, Gorai P, Pandey DK, **Dey A***, Malik T*****, 2020. An evidence based efficacy and safety assessment of the ethnobiologicals against poisonous and non-poisonous bites used by the tribals of three westernmost districts of West Bengal, India: Anti-phospholipase A2 and genotoxic effects. **Plos One.** 15(11):e0242944. **Impact Factor: 3.240.**

33. Adhikary J, Chakraborty S, Dalal S, Basu S, **Dey A**, Ghosh A, 2019. Circular PVT1: an oncogenic non-coding RNA with emerging clinical importance. **Journal of Clinical Pathology**. 72(8): 513-519. **Impact Factor: 3.411.**

34. Kaur P, Gupta R.C., **Dey A,** Malik T, Pandey DK, 2020. Validation and quantification of major biomarkers in 'Mahasudarshan Churna'- an ayurvedic polyherbal formulation through high-performance thin-layer chromatography. **BMC Complementary Medicine and Therapies (BMC Complementary and Alternative Medicine).** 20, 184. **Impact Factor: 3.659.**

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