

CURRICULUM VITAE

Dr. Soumendra Kumar Naik

Professor | Department of Botany

Ravenshaw University

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EDUCATION

- | | |
|---|---------------------------------|
| • Ph.D. (Botany, 2002), Utkal University | Awarded |
| • M.Phil. (Botany, 1998), Utkal University, Odisha | Passed |
| • M.Sc. (Botany, 1997), Utkal University, Odisha | 1 st Division |
| • B.Sc. (Botany, 1995), Utkal University, Odisha | 1 st Class Hons. (D) |
| • +2 Sci. (Class 12th) (1992), CHSE, Odisha | 1 st Division |
| • H.S.C. (Class 10th) (1990), BSE, Odisha | 1 st Division |

PROFESSIONAL EXPERIENCE

- **Professor** (2018-Continuing), Department of Botany, Ravenshaw University, Kataka (Formerly Cuttack), Odisha, India.
- **UGC-Research Awardee** (2016-2018), Department of Botany, Ravenshaw University, Kataka, Odisha, India.
- **Associate Professor** (2015-2018), Department of Botany, Ravenshaw University, Kataka, Odisha, India.
- **Reader** (2010-2015), Department of Botany, Ravenshaw University, Kataka, Odisha, India.
- **IASc-INSANA-Summer Research Fellow** (2009), ICRISAT, Hyderabad, India.
- **BOYSCAST Fellow** (2007), University of Kentucky, Lexington, KY, USA.
- **Lecturer** (2004-2010), Department of Biosciences & Biotechnology, Fakir Mohan University, Balasore, Odisha, India.
- **Faculty Member** (2002-2004), The ICFAI Institute of Science & Technology (IcfaiTech), Bhubaneswar, Odisha, India.

AREA OF SPECIALIZATION

Plant Biotechnology (Plant Tissue Culture) and Microbiology

CURRENT RESEARCH FOCUS AND ALIGNMENT WITH SDGs

My research focuses on the development and optimization of *in vitro* plant regeneration protocols for economically important crop species and medicinal plants, with special emphasis on threatened medicinal plants of Odisha, to support their conservation and sustainable utilization. The research also involves assessing the genetic and biochemical fidelity of tissue culture-raised plants using molecular markers, flow cytometry and

advanced analytical techniques, including HPTLC, HPLC and GC/MS, to ensure true-to-type regeneration and phytochemical consistency. In addition, ethnobotanical claims are validated by comparing tissue culture-derived plants with their respective mother plants to assess the consistency of their medicinal properties and bioactive constituents.

The research contributes primarily to **SDG 15 (Life on Land)** through the conservation of threatened medicinal plants, preservation of plant genetic resources and promotion of sustainable utilization. It also contributes to **SDG 12 (Responsible Consumption and Production)** through sustainable *in vitro* multiplication and production of medicinal plant resources. The development and application of innovative tissue culture, molecular, cytological and analytical approaches further support **SDG 9 (Industry, Innovation and Infrastructure)**, while the authentication and quality assessment of medicinal plants and their bioactive constituents contribute to **SDG 3 (Good Health and Well-being)**. Collectively, the research integrates plant biotechnology, biodiversity conservation, sustainable utilization and validation of medicinal resources in support of these interconnected SDGs.

RESEARCH PROFILE

No. of Research/Review Papers:	57
No. of Book Chapters:	08
Research Project (Completed):	03 + 01
Research Project (Ongoing):	0
GenBank Submission:	05
Patent:	0
h-index:	23
i10 index:	35

Google Scholar:

<https://scholar.google.com/citations?user=ykUUZDUAAAAJ&hl=en>

Scopus:

<https://www.scopus.com/authid/detail.uri?authorId=7202251168>

ORCID:

<https://orcid.org/my-orcid?orcid=0000-0002-3479-6911>

DETAILS OF PUBLICATIONS

Research Papers (Refereed Journals)

1. Behera S, Naik M, Monalisa K, Sahoo S, Priyadarsini S, Senapati PK, Naik PK, **Naik SK*** (2026) Assessment of genetic uniformity, nutritional value, and phytochemical content of the micropropagated *Pachyrhizus erosus* L. **South African Journal of Botany**. 192: 184-193. [IF: 3.1]
2. Monalisa K, Behera S, Pidika SP, **Naik SK*** (2026). Artificial seeds production for propagation and germplasm transfer of *Blepharispermum subsessile* DC., an endemic medicinal plant of India. by encapsulation of axenic node for germplasm transfer. **Vegetos**. <https://doi.org/10.1007/s42535-026-01845-x>

3. Purohit S, Patra P, Panda NK, Priyadarsini A, Banerjee S, **Naik SK**, Mahanty A, Adak T, Mukherjee AK (2026) Exploring the role of cuticular wax in resistance to bacterial leaf blight in rice through morphological, metabolomic, and gene expression analyses. **Journal of Agriculture and Chemistry**. 74 (26): 20284-20296. <https://doi.org/10.1021/acs.jafc.6c02534> [IF: 6.7]
4. Shasmita, Hota S, Mukherjee AK, **Naik SK**, Mohapatra PK (2025) Priming with *Trichoderma* for induction of defense against rice pathogens. **Cereal Research Communications**, 10.1007/s42976-025-00705-9 [IF: 2.3]
5. Shasmita, Swain BB, Mishra S, **Naik SK**, Mohapatra PK (2025) Biochar alleviates heavy metal contamination in paddy fields- a review. **Journal of Soil Science and Plant Nutrition**. 25(3): 6199-6224. [IF: 3.6]
6. Monalisa K, Behera S, Pidika SP, Madkani SK, **Naik SK*** (2024). Development of micropropagation protocol, assessment of genetic fidelity and phytochemical analysis of *Blepharispermum subsessile* DC.: a conservation concerned medicinal plant of Eastern Ghats, India. **Plant Cell, Tissue and Organ Culture**, 157:14. [IF: 2.8]
7. Monalisa K, Behera S, Pidika SP, Nial PS, **Naik SK*** (2024). *In vitro* propagation and assessment of genetic fidelity of *Blepharispermum subsessile* DC.: an endangered medicinal plant of India. **Vegetos**, 37:1741-1750.
8. Behera S, Chouhan VBS, Monalisa K, Mehera RK, Kar SK, Pati K, Bansode VV, Nedunchezhiyan M, Verma AK, **Naik SK**, Naik PK (2024). *In vitro* plant regeneration, genetic and biochemical fidelity and anticancer activity of anthocyanin rich purple flesh sweet potato *var.* Bhu Krishna. **South African Journal of Botany**, 166: 332-343 [IF: 3.1]
9. Moharana A, Dwebedi AS, Rout KK, **Naik SK**, Barik DP (2024). Non-embryogenic synthetic seed production of *Lawsonia inermis* L. and HPTLC analysis of lawsone. **Vegetos**, <https://doi.org/10.1007/s42535-024-01023-x> [NAAS Score: 5.68]
10. Shasmita, Swain BB, Mishra S, Mohapatra D, **Naik SK**, Mohapatra PK (2024). Functional variation in efficiency of PSII during leaf ontogeny in the tropical plant *Saraca asoca*. **Functional Plant Biology**, 51, FP24176. [IF: 2.9]
11. Mahakur B, Moharana A, Madkani SK, **Naik SK**, Barik DP (2024). Optimization of factors affecting *Agrobacterium* -mediated hairy root induction in *Vitex nedundo* L. (Lamiaceae). **International Journal of Secondary Metabolite**, 11 (2): 244-254. [Scopus Indexed]
12. Behera S, Kar SK, Monalisa K, Mohapatra S, Meher RK, Rout KK, Barik DP, Panda PC, Naik PK, **Naik SK*** (2023). Assessment of genetic, biochemical fidelity and therapeutic activity of *in vitro* regenerated plant *Hedychium coronarium* J. Koenig. **In Vitro Cellular and Developmental Biology-Plant**, 59: 602-620. [IF: 2.2]
13. Shasmita, Behera S, Mishra P, Samal M, Mohapatra D, Monalisa K, **Naik SK*** (2023). Recent advances in tissue culture and secondary metabolite production in *Hypericum perforatum* L. **Plant Cell Tissue and Organ Culture**, 154: 13-28. [IF: 2.8]

14. Shasmita, Swain BB, Mishra S, Mohapatra PK, **Naik SK**, Mukherjee AK (2023) Chemoprimering for induction of disease resistance against pathogens in rice. **Plant Science**, 334: 111769. [IF: 4.6]
15. Behera S, Mohapatra S, Meher RK, Das PK, Babu SK, Naik M, Monalisa K, **Naik SK***, Naik PK (2023). Assessment of chemical composition and therapeutic activities of *Clausena excavata* Burn: an important medicinal plant of Eastern Ghats India. **Journal of Essential Oil Bearing Plants**, 26(2):502-521. [IF: 2.1]
16. Behera S, Chauhan VBS, Pati K, Bansode V, Nedunchezhiyan M, Verma AK, Monalisa K, Naik PK, **Naik SK** (2022) Biology and biotechnological aspect of sweet potato (*Ipomoea batatas* L.): a commercially important tuber crop. **Planta**, 256, 40. [IF: 4.4]
17. Panda AK, Rawal HC, Jain P, Mishra V, Nishad J, Chowrasia S, Sarkar AK, Sen P, **Naik SK**, Mondal TK (2022) Identification and analysis of miRNAs-lncRNAs-mRNAs modules involved in stem-elongation of deepwater rice (*Oryza sativa* L.). **Physiologia Plantarum**, 174: e13736. [IF: 4.0]
18. Shasmita, Swain BB, Mohapatra PK, **Naik SK**, Mukherjee AK (2022) Bioprimering for induction of disease resistance against pathogens in rice. **Planta**, 255(6):113. [IF: 4.4]
19. Behera S, Monalisa K, Meher RK, Mohapatra S, Madkami SK, Das PK, Naik PK and **Naik SK*** (2022) Phytochemical fidelity and therapeutic activity of micropropagated *Curcuma amada* Roxb.: a valuable medicinal herb. **Industrial Crops and Products**, 176, 114401 [IF: 6.4]
20. Behera B, Behera S, Shasmita, Mohapatra D, Barik DP and **Naik SK*** (2021) Regeneration of plants from alginate-encapsulated axenic nodal segments of *Paederia foetida* L. – a medicinally important and vulnerable plant species. 48:255-263. **Journal of Plant Biotechnology**.
21. Swain H, Adak T, Mukherjee AK, Sarangi S, Samal P, Khandual A, Jena R, Bhattacharyya, **Naik SK**, Mehetre ST, Baite MS, Kumar MS and Zaidi NW (2021) Seed bioprimering with *Trichoderma* strains isolated from tree bark improves plant growth, antioxidative defense system in rice and enhance straw degradation capacity. **Frontiers in Microbiology**, 12 (633881) [IF: 5.8]
22. Shasmita, Samal P, Mohapatra PK, **Naik SK** and Mukherjee AK (2021) Improved photosystem II and defense enzymes activity in rice (*Oryza sativa*) by bioprimering against *Xanthomonas oryzae* pv. *oryzae*. **Functional Plant Biology**, 48: 298-311. [IF: 2.9]
23. Behera S, Rout KK, Panda PC and **Naik SK** (2020) Production of non-embryogenic synthetic seeds for propagation and germplasm transfer of *Hedychium coronarium* J. Koenig. **Journal of Applied Research on Medicinal and Aromatic Plants**, 19: 100271 [IF: 3.4]
24. **Naik SK***, Behera S, Rath SK, Patra JK (2020). A comprehensive scientific overview of *Blepharispermum subsessile* DC. (Asteraceae), a conservation concerns medicinal plant with promising pharmaceutical potential. **Indian Journal of Traditional Knowledge**, 19 (1): 208-217. [IF: 0.6]

25. Mallick SN, Sahoo T, **Naik SK** and Panda PC (2020) Ethnobotanical study of wild edible food plants used by the tribals and rural populations of Odisha, India for food and livelihood security. **Plant Archives**, 20(1): 661-669.
26. Behera S, Kar SK, Rout KK, Barik DP, Panda PC and **Naik SK*** (2019) Assessment of genetic and biochemical fidelity of field-established *Hedychium coronarium* J. Koenig regenerated from axenic cotyledonary node on *meta*-topolin supplemented medium. **Industrial Crops and Products**, 134: 206-215. [IF: 6.4]
27. Shasmita, Swain H, **Naik SK** and Mukherjee A (2019) Comparative analysis of different biotic and abiotic agents for growth promotion in rice (*Oryza sativa* L.) and their effect on induction of resistance against *Rhizoctonia solani*: a soil borne pathogen. **Biological Control**, 133:123-133. [IF: 4.0]
28. Shasmita, Mohapatra D, Mohapatra PK, **Naik SK**, Mukherjee AK (2019) Priming with salicylic acid induces defense against Bacterial Blight disease by modulating rice plant photosystem II and antioxidant enzymes activity. **Physiological and Molecular Plant Pathology**, 108 (101427). [IF: 3.6]
29. Kar SK, Sahoo S, Kar B, **Naik SK** and Panda PC (2019) Antioxidant activity of *Halophila ovalis* and *Halophila beccarii* (Hydrocharitaceae): two important sea grass species of Chilika lagoon, India. **Asian Journal of Pharmaceutical and Clinical Research**, 12(3): 136-140.
30. Behera S, Kamila PK, Rout KK, Barik DP, Panda PC and **Naik SK*** (2018) An efficient plant regeneration protocol of an industrially important plant, *Hedychium coronarium* J. Koenig and establishment of genetic & biochemical fidelity of the regenerants. **Industrial Crops and Products**, 126: 58-68. [IF: 6.4]
31. Shasmita, Rai MK and **Naik SK*** (2018) Exploring plant tissue culture in *Withania somnifera* (L.) Dunal: *in vitro* propagation and secondary metabolite production. **Critical Reviews in Biotechnology**, 38(6): 836-850. [IF: 7.7]
32. Moharana A, Barik DP, **Naik SK** and Rout KK (2018) Comparative thin-layer chromatographic studies and development of a high-performance thin-layer chromatography method for the quantification of lawsone in natural and micropropagated plant parts of *Lawsonia inermis* L. **JPC-Journal of Planar Chromatography-Modern TLC**, 31(2):155-162. [IF: 1.6] (Cover Page Picture from the article).
33. Moharana A, Das A, Subudhi E, **Naik SK*** and Barik DP (2018) Assessment of genetic fidelity using Random Amplified Polymorphic DNA and Inter Simple Sequence Repeats Markers of *Lawsonia inermis* L. plants regenerated by axillary shoot proliferation. **Proceedings of the National Academy of Sciences, India, Section B: Biological Sciences**, 88(1):133-141.
34. Behera B, Sinha P, Gouda S, Rath SK, Barik DP, Jena PK, Panda PC and **Naik SK*** (2018) *In vitro* propagation by axillary shoot proliferation, assessment of antioxidant activity and genetic fidelity of micropropagated *Paederia foetida* L. **Journal of Applied Biology & Biotechnology**, 6(2): 41-49.

35. Kar SK, Tripathy PK, **Naik SK** and Panda PC (2018) Assessment of genetic diversity and phylogeny of the seagrasses of Odisha coast using molecular markers. **Plant Science Research**, 40(1&2): 37-46.
36. Behera S, Barik DP and **Naik SK*** (2017) Micropropagation of *Symplocos racemosa* Roxb., a threatened medicinal tree of India. **Current Science**, 113(4): 555-558. **[IF: 0.9] (Contents picture from our article)**
37. Moharana A, Das A, Subudhi E, **Naik SK** and Barik DP (2017) High frequency shoot proliferation from cotyledonary node of *Lawsonia inermis* L. and validation of their molecular finger printing. **Journal of Crop Science and Biotechnology**, 20(5):405-416. **(IF: 1.7)**
38. Behera B, Behera S, Jena PK, Barik DP and **Naik SK*** (2017) Adventitious shoot organogenesis and plant regeneration from internode explants of *Paederia foetida* L.: a valuable medicinal plant. **Biosciences Biotechnology Research Asia**, 14(3): 893-900.
39. Mallick SN, **Naik SK** and Panda PC (2017) Diversity of wild edible food plants and their contribution to livelihood of tribal people in Nabarangpur district, Odisha. **Plant Science Research**, 39(1&2):64-75.
40. Behera S, Behera B, Barik DP and **Naik SK*** (2016) Phytochemical analysis of the leaf, flower, and bark of a medicinal plant, *Crataeva magna* (Lour.) DC. **Asian Journal of Pharmaceutical and Clinical Research**, 9 (1):177-178.
41. Behera S, **Naik SK** (2016). Bioprospecting potential of mangrove plants with special references to therapeutic secondary metabolites. **Anvesa: An Interdisciplinary Research Journal of Fakir Mohan University**. 11(1&2): 46-54.
42. Dwibedy AS, Moharana A, Kumar S, **Naik SK** and Barik DP (2015) Qualitative estimation of bioactive compounds and evaluation of antimicrobial activity of *Strychnos nux-vomica* L. leaf extracts. **Plant Science Research**, 37(1&2):60-65.
43. Behera S, Nayak N, Shasmita, Barik DP and **Naik SK*** (2015) An efficient micropropagation protocol of *Bacopa monnieri* (L.) Pennell through two-stage culture of nodal segments and *ex vitro* acclimatization. **Journal of Applied Biology & Biotechnology**, 3(3):16-21.
44. Behera S, Barik DP and **Naik SK*** (2014) Phytochemical analysis of *in vivo* and *in vitro* plants of *Hedychium coronarium* (J.) Koenig: A preliminary report. **Plant Science Research**, 36:91-94.
45. Moharana A, Kumar S, Jena PK, **Naik SK**, Bal S and Barik DP (2014) Comparative antibacterial studies of *in vivo* and *in vitro* leaves of *Lawsonia inermis* L. – A multipurpose medicinal plant. **Plant Science Research**, 36:53-56.
46. Mohanty P, Behera S, Swain SS, Barik DP and **Naik SK*** (2013) Micropropagation of *Hedychium coronarium* J. Koenig through rhizome bud. **Physiology and Molecular Biology of Plants**, 19(4):605-610. **[IF: 3.6]**
47. Naik N, Behera BR, **Naik SK**, Barik DP (2013) Callus mediated shoot proliferation from internode explant of *Paederia foetida* L. **Plant Science Research**, 35 (1&2): 44-48.

48. Nayak SA, Kumar S, Satapathy K, Moharana A, Behera B, Barik DP, Acharya L., Mohapatra PK, Jena PK, **Naik SK*** (2013) *In vitro* plant regeneration from cotyledonary nodes of *Withania somnifera* (L.) Dunal and assessment of clonal fidelity using RAPD and ISSR markers. **Acta Physiologiae Plantarum**, 35:195-203. [IF: 2.3]
49. Dash BP, Archan Y, Satapathy N and **Naik SK** (2013) Search for antisickling agents from plants. **Pharmacognosy Reviews**, 7:53-60.
50. **Naik SK** and Chand PK (2011) Tissue culture-mediated biotechnological intervention in pomegranate: a review. **Plant Cell Reports**, 30: 707-721. [IF: 5.3]
51. Barik DP, **Naik SK**, Mudgal A and Chand PK (2007) Rapid plant regeneration through *in vitro* axillary shoot proliferation of Butterfly pea (*Clitoria ternatea* L.)- A twinning legume. **In Vitro Cellular and Developmental Biology-Plant**, 43: 144-148. [IF: 2.2]
52. **Naik SK** and Chand PK (2006) Alginate-encapsulated nodal segments of pomegranate (*Punica granatum* L.) for germplasm distribution and exchange. **Scientia Horticulturae**, 108: 247-252. [IF: 4.6]
53. Barik DP, **Naik SK**, Mohapatra U and Chand PK (2004) High frequency plant regeneration by *in vitro* shoot proliferation in cotyledonary node explants of grasspea (*Lathyrus sativus* L.). **In Vitro Cellular and Developmental Biology-Plant**, 40: 467-470. [IF: 2.2]
54. **Naik SK** and Chand PK (2003) Silver nitrate and aminoethoxyvinylglycine promote *in vitro* adventitious shoot regeneration of pomegranate (*Punica granatum* L.). **Journal of Plant Physiology**, 160: 421-430. [IF: 4.8]
55. Pattnaik S, Pradhan C, **Naik SK** and Chand PK (2000) Shoot organogenesis and plantlet regeneration from hypocotyls-derived cell suspension of a tree legume *Dalbergia sissoo* Roxb. **In Vitro Cellular and Developmental Biology-Plant**, 36:407-411. [IF: 2.2]
56. **Naik SK**, Pattnaik S and Chand PK (2000) High frequency axillary shoot proliferation and plant regeneration from cotyledonary nodes of pomegranate (*Punica granatum* L.). **Scientia Horticulturae**, 85: 261-270. [IF: 4.6]
57. **Naik SK**, Pattnaik S and Chand PK (1999) *In vitro* propagation of pomegranate (*Punica granatum* L. cv. Ganesh) through axillary shoot proliferation from nodal segments of mature tree. **Scientia Horticulturae**, 79:175-183. [IF: 4.6]

[IF: Impact Factor of the Journal, 2025 as per JCR, Published by Clarivate Analytics, 2026]; * Corresponding author

Book chapters/ Conference proceedings

1. Monalisa K, Behera S, Shasmita, Mohapatra D, Biswal AK, **Naik SK*** (2023). *In vitro* plant regeneration from nodal segments and biochemical fidelity analysis of *Operculina turpethum*, a threatened medicinal plant of Odisha. In: Anis M, Khanam MN (Eds) **In Vitro Propagation and Secondary Metabolite Production from Medicinal Plants: Current Trends (Part 2)**. Bentham Science Publishers Pte. Ltd. Singapore. pp. 259-272. Online ISBN: 978-981-5196-35-1.

2. Behera B, Behera S, Barik DP, **Naik SK*** (2023) Refinement of callus-mediated *in vitro* plant regeneration protocol of *Paederia foetida* L. In: Biswal AK, Thatoi HN (Eds.) **Green Technologies for Environment Management**. Daya Publishing House, A Division of Astral International Pvt. Ltd., New Delhi, India. pp. 149-164. ISBN: 978-93-5461-379-1.
3. Swain H, **Naik SK**, Mukherjee AK (2022). Utilization of Arbuscular Mycorrhizal Fungi to boom the efficiency and product nature of horticultural crops. In: Nayak SK, Baliyarsingh B, Singh A, Mannazzu I, Mishra BB (Eds.) **Advances in Agricultural and Industrial Microbiology**. Springer Nature Singapore Pte Ltd. pp.119-130. Print ISBN: 978-981-16-9681-7, Online ISBN: 978-981-16-9682-4.
4. Rai MK, Rathour R, Behera S, Kaushik S and **Naik SK** (2022) Encapsulation technology: an assessment of its role in *in vitro* conservation of medicinal and threatened plant species. In: Srivastava DK, Thakur AK, Kumar P (Eds.) **Agricultural Biotechnology: Latest Research and Trends**. Springer Nature Singapore Pte Ltd. pp. 103-128. eBook ISBN: 978-981-16-2339-4.
5. Behera S, Rath SK, Akhtar MS and **Naik SK*** (2018) Biotechnological intervention through tissue culture in *Hedychium coronarium*: a potential anticancer plant. In: Akhtar MS and Swamy MK (Eds.) **Anticancer Plants: Natural Products and Biotechnological Implements**. Vol 2, **Springer Nature Singapore Pte Ltd**. pp. 551-564. ISBN: 978-981-10-8064-7.
6. Shasmita, Singh NR, Rath SK, Behera S and **Naik SK*** (2018) *In vitro* secondary metabolite production through fungal elicitation: an approach for sustainability. In: Prasad R, Kumar V, Kumar M and Wang S (Eds.) **Fungal Nanobionics: Principles and Applications**. **Springer Nature Singapore Pte Ltd**. pp. 215-242. eBook ISBN: 978-981-10-8666-3.
7. Behera S, Barik DP, Jena PK and **Naik SK*** (2013) *In vitro* plantlet regeneration from cotyledonary node of *Pongamia pinnata* (L.) Pierre: a multipurpose tree species. In. Jena PK, Naik SK and Barik DP (Eds.) **Proceeding of the P. Parija Memorial National Conference (PMNC) on Recent Advances in Plant Biotechnology**. Department of Botany, Ravenshaw University, Cuttack. pp 62-69.
8. **Naik SK** and Chand PK (2001) *In vitro* cloning of a medicinally important fruit tree *Punica granatum* L. by nodal culture. In: Sahoo S, Ramesh DB, Rao YR, Debata BK and Mishra VN (Eds.) **Conservation and Utilization of Medicinal and Aromatic Plants**. Allied Publishers Limited, New Delhi. pp 313-322. ISBN: 81-7764-221-9.

***Corresponding author**

Books/Edited books and proceeding volumes

1. Jena PK, **Naik SK** and Barik DP (Eds.) (2013) Proceedings of the P. Parija Memorial National Conference (PPMNC) on Recent Advances in Plant Biology. Department of Botany, Ravenshaw University, Cuttack, Odisha.

Gene Sequences submitted to GenBank

1. **Naik SK**, Pattanaik S and Yuan L (2009) *Nicotiana tomentosiformis* dihydroflavonol 4-reductase (Dfr1) mRNA, complete cds. FJ969388
2. **Naik SK**, Pattanaik S and Yuan L (2009) *Nicotiana alata* dihydroflavonol 4-reductase (Dfr1) mRNA, complete cds. FJ969389
3. Pattaik S, **Naik SK** and Yuan L (2009) *Nicotiana langsdorfii* dihydroflavonol 4-reductase (Dfr) mRNA, complete cds. FJ969390
4. **Naik SK**, Pattanaik S and Yuan L (2009) *Nicotiana tomentosiformis* chalcone synthase (Chs) mRNA, complete cds. FJ969391
5. **Naik SK**, Pattanaik S and Yuan L (2009) *Nicotiana alata* chalcone synthase (Chs) mRNA, complete cds. FJ969392

RESEARCH SUPERVISION (SUPERVISOR/CO-SUPERVISOR)

Ph.D.: Awarded: **10**; Working: **07**
(05: NET-JRF; 02: MRIP or OURIP Fellowship)

M.Phil.: Awarded: **09**

RESEARCH PROJECTS HANDLED AS PI / CO-PI

Ongoing: Nil

Completed: 03 + 1 (UGC-Research Award)

FELLOWSHIP / AWARDS / SPECIAL RECOGNITION

- **Fellow of the National Environmental Science Academy (FNESA)** since 2025.
- College of Basic Science and Humanities **Award for Significant Contributions to Botany - 2024**: By Orissa Botanical Society, Odisha.
- **Young Scientist Award - 2024 (Tissue Culture and Micropropagation)**: By the Society of Plant Research and Springer Nature.
- Member, **IUCN Species Survival Commission (SSC) Medicinal Specialist Group** (2017-2020 and 2021-2025).
- **Elected Member of Plant Tissue Culture Association of India (PTCA-I)** (Since 2019).
- **Best Record of Publication** (Best Research Publication), 2018-2019: Felicitated on the occasion of the Twelfth Commemoration Day of Ravenshaw University (on 15th November 2019).
- **UGC- Research Award**, 2016-2018: By UGC, New Delhi.
- **Best Record of Publication** (Best Research Publication), 2017-2018: Felicitated on the occasion of the Twelfth Commemoration Day of Ravenshaw University (on 15th November 2018).
- **Best Oral Presentation** (2018) in the National Conference on “Biodiversity and its Conservation: Priorities and Challenges” at Bharathiar University, Coimbatore, India.
- **Fellow of the Indian Botanical Society (FBS)** since 2013.

- **IASc-INSANA-SASI Summer Research Fellowship**-2009, awarded by the Indian Academy of Sciences, Bangalore. [Worked at Applied Genomics Laboratory, Center of Excellence in Genomics, ICRISAT, Hyderabad].
- **BOYSCAST Fellowship**, 2006-2007: awarded by Department of Science and Technology (DST), Govt. of India, New Delhi, India. (Work taken up at University of Kentucky, USA).
- **DBT-Postdoctoral Fellowship**, 2004: awarded by Department of Biotechnology (DBT), Govt. of India, New Delhi, India. (Could not avail due to joining Fakir Mohan University as a Lecturer).
- **Sarojini G. Panigrahi Young Scientist Award**, 2001 for Best Presentation of Research Paper: awarded by Orissa Botanical Society in the XXV Annual Conference.

PROFESSIONAL AND INSTITUTIONAL SERVICE

- **Member, DBT-National Certification System for Tissue Culture Raised Plants (NCS-TCP)**, Department of Biotechnology, Government of India, New Delhi (July 18, 2023 – Continuing).
- **DBT Nominee, Institutional Biosafety Committee (IBSC)**, ICAR-Central Rice Research Institute (CRRI), Cuttack (from June 2024 – Continuing).

ADMINISTRATIVE EXPERIENCES

- **Director, Internal Quality Assurance Cell (IQAC)**, Ravenshaw University, Cuttack, Odisha, India. (2025 to present).
- **Head, Department of Botany** (2012-2014, 2020-2022 and 2026 to present), Ravenshaw University, Cuttack, Odisha, India.
- **Coordinator, M.Sc. Biotechnology Program** (2020-2022 and 2026 to present), Department of Botany, Ravenshaw University, Cuttack, Odisha, India.
- **Chairperson, Cultural Council** (2024–2026), Ravenshaw University, Cuttack, Odisha, India.
- **Controller of Examinations** (2022-2024), Ravenshaw University, Cuttack, Odisha, India.
- **Director, Students' Welfare** (2021-2022), Ravenshaw University, Cuttack, Odisha, India.
- **Dean Students' Welfare** (2015-2016 and 2021), Ravenshaw University, Cuttack, Odisha, India.
- **Head, Department of Botany** (2012-2014 and 2020-2022), Ravenshaw University, Cuttack, Odisha, India.
- **Coordinator, DST-FIST Program** (2020-2022), Department of Botany, Ravenshaw University, Cuttack, Odisha, India.
- **Coordinator, Career Counselling Cell** (2018-2022), Ravenshaw University, Cuttack, Odisha, India.
- **Public Information Officer (PIO) under RTI Act, 2005** (2020-2021), Ravenshaw University, Cuttack, Odisha, India.
- **Deputy Director, Internal Quality Assurance Cell (IQAC)** (2019-2021), Ravenshaw University, Cuttack, Odisha.

- **Warden, New PG Hostel** (2018-2019), Ravenshaw University, Cuttack, Odisha, India.
- **Warden, Dharmapada Hostel** (2018-2019), Ravenshaw University, Cuttack, Odisha, India.

EDITORIAL ROLE IN JOURNALS

- **Associate Editor (2019-Continuing):** *Physiology and Molecular Biology of Plants* (**Springer; IF: 3.6**)
- **Sectional Editor**-Tissue Culture & Conservation Biology (**2026-Continuing):** *Vegetos* (**Springer**)
- **Managing Editor (2026-Continuing):** *Plant Science Research* (**Orissa Botanical Society; NAAS Indexed**)
- **Subject Editor** (Tissue Culture, Organogenesis, Micropropagation, Conservation Biology Section) (**2025):** *Vegetos* (**Springer**)
- **Editorial Board Member (2024-2025):** *Scientific Reports* (**Nature; IF: 4.9**)

FELLOWSHIPS & MEMBERSHIPS IN PROFESSIONAL BODIES

Fellowships

- Fellow, Indian Botanical Society (FBS)
- Fellow, National Environmental Science Academy (FNESA)

Elected Membership

- Elected Member, Plant Tissue Culture Association of India (PTCA-I)

Life Memberships

- Life Member, The Indian Science Congress Association (ISCA)
- Life Member, Indian Botanical Society (IBS)
- Life Member, National Environmental Science Academy (FNESA)
- Life Member, Society for Plant Biochemistry and Biotechnology
- Life Member, Society for Plant Research (SPR)
- Life Member, Orissa Botanical Society (OBS)
- Life Member, Orissa Bigyan Academy (OBA)
- Life Member, National Academy of Biological Sciences (NABS)
- Life Member, Society for Biotechnologists (India)
- Life Member, The Biotech Research Society (BRSI)



(Soumendhra Kumar Naik)

