

Curriculum Vitae



Name: Soumendra Kumar Naik
Designation: Reader Mobile: +91 9438081499
Subject: Botany E-mail: sknuu@yahoo.com

Professional Experience:

- Reader (Since March 2010), Department of Botany, Ravenshaw University, Cuttack, Odisha, India
- BOYSCAST Fellow (2007), Department of Plant & Soil Sciences, University of Kentucky, Lexington, KY, USA
- Lecturer (June 2004 - March 2010), P.G. Department of Biosciences & Biotechnology, Fakir Mohan University, Balasore, Odisha, India
- Faculty Member (August 2002 - June 2004), The ICFAI Institute of Science & Technology (IcfaiTech), Bhubaneswar, Odisha, India

Education:

- Ph.D. in Botany (2002), P.G. Department of Botany, Utkal University, Bhubaneswar, Odisha, India
- M. Phil. in Botany (1998), P.G. Department of Botany, Utkal University, Bhubaneswar, Odisha, India
- M. Sc. in Botany (1997), P.G. Department of Botany, Utkal University, Bhubaneswar, Odisha, India
- B.Sc. in Botany with (1995), B.J.B. College, Utkal University, Bhubaneswar, Odisha, India

Areas of specialization:

Plant Tissue Culture and Genetic Engineering

Publications:

A. Research Papers in Peer Reviewed Journals:

1. **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: 1.197]
2. **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: 1.197]
3. 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: 0.853]
4. **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: 2.5]
5. 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: 0.853]
6. **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: 1.197]
7. 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: 0.853]

B. Research Papers in Non-peer Reviewed Journals:

1. Rout NR, Goswami S, **Naik SK** and Behera B (2005) Environmental issues in India: a bird's eyeview. **Anvesa**. 1: 114-133

C. Chapters in Edited Books:

1. **Naik SK** and Chand PK (2001) *In vitro* cloning of a medicinally important fruit tree *Punica granatum* L. by nodal culture. In. **Conservation and Utilization of Medicinal and Aromatic Plants**. (Eds. S.Sahoo, D.B.Ramesh, Y.R.Rao, B.K.Debata and V.N.Mishra), Allied Publishers Limited, New Delhi. pp 313-322.

D. Reviews in Peer Reviewed Journals:

1. **Naik SK** and Chand PK (2011) Tissue culture-mediated biotechnological intervention in pomegranate: a review. **Plant Cell Rep.** DOI 10.1007/s00299-010-0969-7 [IF: 2.301]
2. **Naik SK** and Chand PK (2010) Micropropagation of pomegranate through in vitro culture of meristems: a review. **Plant Sci. Res.** 32: 9-17.

E. Gene Sequences submitted to Gene Bank:

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

Conference Presentations:

International:

1. **Naik SK**, Pattanaik SK and Chand PK (2010) Rapid shoot regeneration through nodal multiplication of primary in vitro shoots of pomegranate (*Punica granatum* L.). 6th International Plant Tissue Culture and Biotechnology Conference. Dhaka, Bangladesh, December 3-5, p. 7.
2. Barik DP, **Naik SK** and Chand PK (2008) Plant regeneration through callus cultures of butterflypea (*Clitoria ternatea* L.). XXXI All India Botanical Conference and International Symposium on Plant Biology and Environment: Changing Scenario. Allahabad, India, December 17-19, p.200.
3. Kong Q, Pattanaik SK, Xie CH, **Naik SK** and Yuan L (2007) Understanding of the functional domains of plant bHLH transcription factors. Botany & Plant Biology 2007, Chicago, USA, July 7-11, p. 245.

National:

1. **Naik SK** and Chand PK (2011) Tissue culture of pomegranate (*Punica granatum* L.): present scenario and prospects for future research. National Symposium on Recent Advances in Plant Tissue Culture and Biotechnological Researches in India and XXXII Annual Meet of Plant Tissue Culture Association (India). Bikaner, India, February 4-6, p. 109.

2. Pal A, Sahu L, Swain SS, Pradhan C, Barik DP, **Naik SK** and Chand PK (2010) Synthetic seeds for conservation and exchange of germplasm of periwinkle (*Catharanthus roseus* [L.] G. Don): a medico-horticultural species. 35th Annual Conference of Orissa Botanical Society and National Seminar on Plant Resource Assessment & Conservation under Changing Environment, Cuttack, India, December 29-30, p. 35.
3. **Naik SK** (2007) Transgenic approach to crop improvement: an overview. National Seminar on Application of Biotechnology in Special Response to Development of Transgenic Plants. Rasalpur, Balasore, India, February 8-9, pp. 7-11.
4. **Naik SK**, Barik DP, Mudgal A and Chand PK (2006) An *in vitro* approach for conservation of a rare medicinal plant *Clitoria ternatea* L. (butterfly pea). National Symposium on Issues and Challenges for Conservation of Plants and Ecosystems in India. Shillong, Meghalaya, India, November 2-3, p. 53-54.
5. **Naik SK** and Chand PK (2004) Direct shoot organogenesis and plantlet regeneration from cotyledon segments of a fruit tree, *Punica granatum* L. XVI Annual Conference of the Plant Tissue Culture Association (India), Mangalore, India, January 15-17, p. 47.
6. **Naik SK** (2001) An ethylene inhibitor, AgNO₃ stimulates *in vitro* multiplication of an elite pomegranate (*Punica granatum* L. cv. Ganesh) by adventitious shoot regeneration from cotyledon explants. XXV Annual Conference of Orissa Botanical Society, Bhubaneswar, India, March 25-26, p.77.
7. **Naik SK**, Barik DP, Pattnaik SK and Chand PK (2000) Micropropagation of pomegranate (*Punica granatum* L.)- an important medicinal fruit tree of the tropics. National Seminar on Medicinal plants in our environment: their exploration, application and conservation, Jajpur Road, Orissa, India, February 6, p.
8. **Naik SK**, Pattnaik S and Chand PK (1998) Cloning of a tropical fruit tree, *Punica granatum* L. (pomegranate) through *in vitro* culture of nodal segments from a mature tree. XXI All India Botanical Conferences, Ujjain, M.P., India, October 24-26, p.37.
9. **Naik SK** and Chand PK (1998) An efficient protocol for micropropagation of a fruit tree, pomegranate (*Punica granatum* L.) using cotyledonary nodes. XXIII Annual Conference of Orissa Botanical Society, Khurda, Orissa, India, December 29-30, p.11.

Research Projects, Evaluation Research, Consultancies:

Co-Principal Investigator of the project entitled “Characterization & assessment of potential target compound(s) having antisickling activity from some plant extract of Orissa”.

Funding agency: UGC, New Delhi

Status: Ongoing

Honours, Fellowships:

- IASc-INSA-NASI Summer Research Fellowship-2009 awarded by Indian Academy of Sciences, Bangalore. [Worked at Applied Genomics Laboratory, International Crops Research Institute for Semi-Arid Tropics (ICRISAT), Hyderabad]
- BOYSCAST Fellowship, 2006-2007: awarded by Department of Science and Technology (DST), Govt. of India, New Delhi, India. (Worked at Department of Plant & Soil Sciences, University of Kentucky, Lexington, KY, USA)
- DBT-Postdoctoral Fellowship, 2004: awarded by Department of Biotechnology (DBT), Govt. of India, New Delhi, India. (Could not avail due to joining the Fakir Mohan University as Lecturer).
- Sarojini G. Panigrahi Young Scientist Award, 2001 for Best Presentation of Research Paper; awarded by Orissa Botanical Society.
- Senior Research Fellowship (2000): awarded by Council of Scientific and Industrial Research, Govt. of India, New Delhi, India.
- Prof. B.K. Nanda Memorial Best Poster Presentation Award 1998; awarded by Orissa Botanical Society.
- 5th position in order of merit in the M.Sc. (Botany) Examination, 1997 of Utkal University, Bhubaneswar, Odisha.
- 10th position in order of merit in the B.Sc. (Botany Honours) Examination, 1995 of Utkal University, Bhubaneswar, Odisha.

Membership in Professional Bodies:

- Life member, Indian Botanical Society (IBS)
- Life member, Orissa Botanical Society
- Life member, Orissa Bigyan Academy
- Life member, Society for Biotechnologists (India)

(Soumendra K. Naik)