

## Curriculum Vitae

**Name: Dr. SWASTI SWAGATIKA SWAIN**

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Designation: Lecturer

Subject: Botany

### Professional Experience:

(Starting with the most recent)

#### PROFESSIONAL EXPERIENCES

- ❑ Joined as Lecturer in Botany In Ravenshaw University on 2<sup>nd</sup> May 2011
- ❑ Teaching PG students of Botany and Applied Microbiology in Utkal University on contractual basis.
- ❑ Working as a Research Scholar (SRF) in the PG Dept. of Botany, Utkal university, Vani vihar, Bhubaneswar on a DST , Govt. of Orissa project (2009-2010)
- ❑ Working as a Research Scholar (JRF) in the PG Dept. of Botany, Utkal University, Vani vihar, Bhubaneswar on a DST , Govt. of Orissa project (2007-2009).
- ❑ Worked as a **PGT-Biotechnology** in KV-1, Unit-9, Bhubaneswar from 2006-07.
- ❑ Worked As A **PGT-Biology** in KV-3, Mancheswar, Bhubaneswar from 2005-2006.
- ❑ Experience in organizing State and National level science exhibitions.

#### EDUCATIONAL QUALIFICATIONS

- ❑ **Ph.D, Utkal University 2011 Title: “ Agrobacterium rhizogenes-mediated genetically transformed root cultures of butterfly pea (*Clitoria ternatea* L.)-an important medicinal plant species”**
- ❑ **Pre-Ph.D** course work 2004-05.
- ❑ **M phil** from Utkal University, 2007. **1<sup>st</sup> div.**
- ❑ **M.Sc.** (Botany with special paper cytogenetic) from Utkal University, 2003. **1<sup>st</sup> div.**
- ❑ **B.Sc.** (Botany) from Utkal University, 2001 **1<sup>st</sup> div with distinction**

#### (i) Area of Specialization:

- i. Molecular biology & Plant Biotechnology
- ii. Plant Cell, Tissue & Organ Culture
- iii. Genetic Transformation
- iv. DNA Fingerprinting

(ii) (a) **Selected peer-reviewed publications (in chronological order).**

- ❖ Swain S.S., Sahu L., Barik D.P., Chand P.K. (2010). *Agrobacterium*×plant factors influencing transformation of ‘Joseph’s coat’(*Amaranthus tricolor* L.). *Scientia Horticulturae*. 125:461-468.
- ❖ Swain S.S., Tripathy T., Mohapatra P.K., Chand P.K. (2010). Photosynthetic and transpiration responses of *in vitro* regenerated *Solanum nigrum* L. plants to *ex vitro* adaptation. *In Vitro Cellular Developmental Biology- Plant*. 46: 134-141.
- ❖ Swain S.S., Pal A., L. Sahu, C. Pradhan, D.P. Barik and Chand P.K. (2010) Nutrient-alginate encapsulated nodal explants of butterfly pea (*Clitoria ternatea* L.) as synseeds for germplasm conservation and exchange. *Plant Science Research*. 32: 48-55.

(b) **Publication in edited Proceedings volume**

- ❖ Swain S.S., Sahu L., Barik D.P., Chand P.K.(2009).Genetic transformation of *Amaranthus tricolor* L. using Ri plasmid vectors. In:Bastia, A.K. and Mohapatra, U.B. (eds.) Recent trends in monitoring and bioremediation of mine and industrial environment. Proc. Natl. Sem., North Orissa University, Orissa, pp.109-116.

(iii) **Research Support. List selected ongoing or completed**

- Joined as a Research Scholar (SRF) in the P.G. Dept. of Botany, Utkal University, Vani vihar, Bhubaneswar on a DST , Govt. of Orissa project on **31<sup>st</sup> March 2009 continued till 31<sup>st</sup> March 2010** entitled “ Production & Utilisation of *Agrobacterium*-Transformed Hairy Root Cultures of Some Important Medicinal Plants of Orissa as a Source of Pharmaceutical Compounds.”
- Joined as a Research Scholar (JRF) in the PG Dept. of Botany, Utkal University, Vani vihar, Bhubaneswar on a DST , Govt. of Orissa project on **1<sup>st</sup> August 2007 continued till 31<sup>st</sup> March 2009** entitled “ Production & Utilisation of *Agrobacterium*-Transformed Hairy Root Cultures of Some Important Medicinal Plants of Orissa as a Source of Pharmaceutical Compounds.”

❖ **Personal Information:**

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**SPECIAL MENTIONS**

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- ❑ “**Best Poster Presentation Award** in National seminar, OBS, 2010.
- ❑ “**Best Oral Presentation Award**” in Orissa Bigyan Congress, ISCA, Bhubaneswar
- ❑ “**Sarojin G Panigrahi Young Scientist**” Award 2009.
- ❑ “**Best seminar reporter award**” in P.G Dept. of Botany,Utkal University.2003
- ❑ State level “**Chairman’s cup**” in debate 1996.

#### WORKSHOP

- ❑ Workshop on “**BASIC TECHNOLOGY IN MOLECULAR BIOLOGY**” organized by DBT, Govt. of India.
- ❑ Workshop on “**CONSERVATION ASSESSMENT AND MANAGEMENT PRIORITIZATION (CAMP) FOR MEDICINAL PLANTS OF ORISSA**”, organized by RPRC, BBSR, OSVVS, Cuttack and FRLHT, Bangalore.

#### CONFERENCES (PRESENTATIONS)

- ❑ Poster presentation in National Seminar entitled “**SYNTHETIC SEEDS FOR CONSERVATION AND EXCHANGE OF GERMPLASM OF PERIWINKLE (*CATHARANTHUS ROSEUS* [L.] G. DON.): A MEDICO-HORTICULTURAL SPECIES**”. 2010.
- ❑ Poster presentation in 6<sup>th</sup> International Plant Tissue Culture & Biotechnology Conference entitled “**AGROBACTERIUM-MEDIATED GENETIC TRANSFORMATION OF THE LEAFY CROP AMARANTH, *AMARANTHUS TRICOLOR* L.** 2010.
- ❑ Abstract in International conference on Plant Science in Post Genomic Era (ICPSPGE-2011) entitled “**AGROBACTERIUM RHIZOGENES STRAINS INFLUENCE THE BIOMASS AND TARAXEROL PRODUCTION IN TRANSFORMED HAIRY ROOT CLONES OF BUTTERFLY PEA (*CLITORIA TERNATEA* L.)-A MULTI-MEDICINAL PLANT**”
- ❑ Abstract in International conference on Plant Science in Post Genomic Era (ICPSPGE-2011) entitled “**INTER SIMPLE SEQUENCE REPEATS (ISSR) MARKER ANALYSIS FOR ESTIMATING GENETIC RELATIONSHIPS AMONG SIXTY-FIVE MANGO GENOTYPES OF INDIA**”.
- ❑ Abstract in National conference on Plant Resource Assesment and Conservation Under Changing Environment entitled “**AGROBACTERIUM-MEDIATED GENETIC TRANSFORMATION OF BUTTERFLY PEA (*CLITORIA TERNATEA* L.)-AN IMPORTANT MEDICINAL PLANT.** 2010
- ❑ Abstract in International conference on Biotechnology: A global Scenario entitled “**TARAXEROL PRODUCTION IN AGROBACTERIUM-TRANSFORMED ROOT CULTURES OF BTTERFLY PEA (*CLITORIA TERNATEA* L.)**” on 2<sup>nd</sup> - 4<sup>th</sup> Nov, 2010 at A.P.
- ❑ Abstract in International conference on Biotechnology: A global Scenario on “**OPTIMIZATION OF FACTORS INFLUENCING *AGROBACTERIUM RHIZOGENES* MEDIATED TRANSFORMATION OF *BOERHAAVIA DIFFUSA* L.**”on 2<sup>nd</sup> - 4<sup>th</sup> Nov, 2010 at A.P.
- ❑ Oral presentation in Orissa Bigyan Congress, Indian Science Congress Association, Bhubaneswar on “**GENETICALLY TRANSFORMED HAIRY ROOT CULTURES OF APARAJITA (*CLITORIA TERNATEA* L.): A RENEWABLE SOURCE OF MULTI-MEDICINAL PRODUCTS**”. 2009.

- ❑ Presented paper in National Seminar entitled “**TRANSFORMED HAIRY ROOT CULTURES OF *AMARANTHUS TRICOLOR* L. INDUCED BY *AGROBACTERIUM RHIZOGENES***” on 11<sup>th</sup> Jan 2009 held at North Orissa University, Baripada.
  
- ❑ Abstract in The National Academy of Sciences, India on “**SYNSEEDS OF *CANTHARANTHUS ROSEUS* L. FOR GERMPLASM CONSERVATION AND EXCHANGE** held during Dec. 14-16, 2009 at Kolkata.
  
- ❑ Abstract in International conference on “**PHOTOSYNTHESIS IN THE GLOBAL PERSPECTIVE**” held during Nov 27-29, 2008 at Indore.
  
- ❑ Abstract in OBS 2008 on “**GENETIC DIVERSITY AMONG SELECTED VARIETIES OF *AMARANTHUS HYPOCHONDRIACUS* L. USING RAPD MARKERS**”.
  
- ❑ Abstract in OBS 2005 On “**TOWARDS MICROPROPAGATION OF *COLEUS AMBONICUS* L. AN IMPORTANT MEDICINAL PLANT SPECIES**”.

**Swasti swagatika swain**