

BIO-DATA

Name : Dr. (Mrs.) SUBHASHREE APARAJITA

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Research interests:

- Study of Phytochemical diversity and elicitation of targeted Secondary metabolites.
- Molecular marker assisted selection in less exploited crop plants and identification of markers for economically important traits.

Research Project:

Title: “Elicitation of Secondary metabolites in *Catharanthus roseus* using Hydroponic culture System” under OURIIP scheme, **funded by OSHEC, Govt. of Odisha, 2019** (Ongoing).

Academic qualifications:

Ph.D. in Botany PG Department of Botany, Utkal University, Bhubaneswar, 2013.

Awards:

- Senior Research Fellowship (CSIR -SRF) from CSIR, New Delhi, 2008.
- Best NSS Programme officer, 2020 at University level, under NSS Bureau Berhampur University.

Teaching experience:

- Jr. Lecturer in Botany, Binayak Acharya College, Brahmapur, Odisha from June 2016 and continuing.
- Junior lecture in Botany (Ad-hoc) F.M. Junior college Balasore, Odisha from August 2014- July 2016
- Post Graduate Teacher (PGT) in Biology, at Kendriya Vidyalaya, Sec-6, Roukela for the session 2004-2005.

Membership of Professional Societies:

- (i) Life member of Odisha Botanical Society
- (ii) Life member of Plant Lovers Association

Publications in Journals and Proceedings:

- (i) Research Papers Published/Accepted: 28
- (ii) Review articles/Book Chapters: 01
- (iii) Symposium papers/Abstract: 06

Selected publications:

- ✚ Bhoi GC, Karjee R and **Aparajita S.** (2022) The Effect of Nutrients Electrical Conductivity on Growth Performance and Biochemical Analysis of Hydroponically Grown *Catharanthus Roseus* (L.) G. DON. **Journal of Plant Science & Research, 9(2): 1-5.**
- ✚ Senapati S. K and **Aparajita S.** (2019) A Rapid, easier and inexpensive method for isolation of Genomic DNA from plant tissue of *Jatropha curcus*. **International Journal of Research Studies in Science, Engineering and Technology, 6(5): 1 –4.**
- ✚ **Aparajita S.,** Senapati S.K and Rout G.R. (2016) Population structure delineated with inter simple sequence repeat markers in fragmented populations of legume tree. **International Journal of advanced Research, 4(2): 1126 -1132.**
- ✚ Senapati, S.K., **Aparajita, S.** and Rout, G. R. (2013) Micropropagation and assessment of genetic stability in *Celastrus paniculatus*: An endangered medicinal plant. **Biologia, 68(4): 627-632.**
- ✚ Senapati, S.K., Rout, G. R. and **Aparajita, S.** (2012) An assessment of genetic fidelity of *in vitro* grown plantlets of rose (*Rosa hybrida*) through molecular markers. **African journal of Biotechnology. 11(100):16532-16538.**
- ✚ Senapati, S.K., Rout, G. R. and **Aparajita, S.** (2011) Identification of Species-Diagnostic ISSR Markers for Ten *Phyllanthus* Species” **Z. Naturforsch, 66 c, 167 – 172.**
- ✚ **S. Aparajita,** and Rout, G.R (2010). Genetic diversity estimates in legume tree genus *Albizia* using AFLP analysis, **Journal of Genetics 85(1):94-99.**

- ✚ Rout.G.R., Senapati, S.K. and **Aparajita, S.** (2010) Study of Relationships among Twelve *Phyllanthus* Species with the Use of Molecular Markers. **Czech J. Genet. Plant Breed.** **46(3): 135–141.**
- ✚ Rout.G.R., Senapati, S.K. and **Aparajita, S.** (2010) Identification and phylogenetic analysis of *Ipomea* collected from Eastern India using Inter Simple Sequence Repeat Markers. **International Journal of Pharma and Bio Sciences** **1(4): 1-13.**
- ✚ **S. Aparajita** and Rout G.R. (2009) Detection of restriction sites in RAPD markers for differentiating ecotypes of legume tree species *Albizia lebbeck*. **Journal of Plant Science Research**, **25(1): 63-69.**
- ✚ Rout, G.R., Sahoo, D.P. and **Aparajita, S.** (2009). "Studies on Inter and intra-population variability of *Pongamia pinnata*: a bio energy legume tree." **Plant systematic and evolution**, **285: 121-125.**
- ✚ Rout G.R. and **Aparajita, S.** (2009) Genetic Relationships among 23 *Ficus* Accessions using Inter Simple Sequence Repeat Markers. **Journal of Crop Science and Biotechnology**, **12(2): 91-96.**
- ✚ Rout, G. R. Senapati, S.K. **Aparajita, S.** and Palai S.K (2009) Studies on genetic identification and genetic fidelity of cultivated banana using ISSR markers. **Plant Omics Journal** **2(6):250-258 (Australia).**
- ✚ Das, S., Misra, R. C., Rout G.R., Pattanaik, M.C. and **Aparajita, S.**(2009) Relationship of status of polymorphic RAPD bands with genotypic adaptation in early finger millet genotypes. **African Crop Science Journal** **17(2):61-69.**
- ✚ **S. Aparajita**, and Rout, G.R. (2008) "Evaluation of genetic differentiation of *Albizia lucida* populations from Eastern Region of the Indian Sub-continent by ISSR markers". **Journal of Forest Science**, **24(1): 27-34.**
- ✚ **S. Aparajita** and Rout.G.R. (2008) "Genetic differentiation of *Albizia lebbeck* (Linn.) Benth. Populations estimated by RAPD and ISSR markers". **Plant Biosystems**, **143: 1-8**
- ✚ **S. Aparajita**, Senapati, S.K. and Rout G.R. (2008) "Studies on identification and genetic relationship among the *Albizia* species using morphological and molecular markers". **Plant Biosystems**, **142: 30-39.**

- ✚ **S. Aparajita** and Rout G.R. (2008) “Molecular analysis of Genetic structure within and among the population of *Albizia lebbeck* (Linn.) Benth.” **The Journal of Plant Science Research**, **24(1): 21-29**.
- ✚ Rout G.R., Senapati, S. K. and **Aparajita, S** (2008) Micropropagation of *Acacia chundra* (Roxb.) DC. **Hort. Sci.**, **35 (1): 22 - 26, (Prague)**.
- ✚ Rout G.R., Senapati, S. K and **Aparajita, S** (2007) Studies on the genetic relationship among 13 cultivars of *Calathea* (Marentheceae) using RAPD and ISSR markers. **Adv. Hort. Sci. (Italy)** **21(3):147-155**.
- ✚ Rout, G.R., Kullu, J. Senapati, S. K., **Aparajita, S.** and Mohapatra, A. (2007) “Identification and Genetic relationship among *Polyscias* and *Schefflera* (Araliaceae) using RAPD and ISSR markers”. **Plant Biotechnology**, **24: 519 - 525, (Japan)**.
- ✚ Das, S., Mishra. R.C., Rout, G.R and **Aparajita, S.**, (2007). “Molecular analysis of *Eleusine caracana* cultivars using RAPD markers”. **Zeitschrift für Naturforschung C**. **62 c, 116-122**.
- ✚ Barik, S., Senapati, S. K., **Aparajita, S.**, Mohapatra, A and Rout, G. R (2006). Identification and Genetic Variation among *Hibiscus* species (Malvaceae) Using RAPD markers. **Z. Naturforsch**, **61c: 123 - 128. (Germany)**.

Conferences/Seminars/Workshop Attended:

- National Seminar on Interaction of Science, Technology and Social ethics in the current Scenario held on 8th January, 2023 at City College, Berhampur and presented a paper.
- 13th Odisha Environment Congress, 2022 on the theme “Environment and Tribe” organized by Central University of Odisha, Koraput during 21st to 23rd December, 2022.
- Odisha Research Conclave organized by OSHEC and Ravenshaw University from 14.11.2022 to 16.11. 2022 participated and presented a poster paper in Biological Science.
- Odisha Research Conclave organized by OSHEC and Utkal University University 2021 participated and presented a poster paper in Biological Science.

- National Conference on Biodiversity, Biotechnology and Bioinformatics: Innovative and Emerging Trends- 2019, at P.G. Department of Botany, Berhampur and presented a paper.
- Workshop on “Role of IPRs and Innovation management in University Ecosystem” held on 30th October 2018 at Khallikote University, Berhampur, Odisha.
- National Seminar on Plant Genomics and Biotechnology: Challenges and Opportunities in 21st Century organized by College of Agriculture, OUAT, Bhubaneswar from 23rd to 24th January, 2016 and presented a poster paper.
- Workshop on “Morden tools and techniques of floriculture” held on 8th January, 2010 at Regional Plant Resource Centre (RPRC), Bhubaneswar.
- Workshop on “Conservation Assessment and Management Prioritisation (CAMP) for medicinal plants of Orissa”, held on 7-10th October, 2007. Organised by the Regional Plant Resource Centre (RPRC), Bhubaneswar, Orissa State Vanaspati Vana Society (OSVVS), Cuttack and Foundation for Revitalisation of Local Health Tradition (FRLHT), Bangalore.
- National seminar on “Role of Biotechnology in Medicinal Plants”, Held on 28-29th July 2007. Organized by BJB autonomous College, Bhubaneswar and presented a paper in the Seminar.
- National Conference on “Tree Biotechnology: Indian Scenario”, Held on February 9-10, 2006. Organised by Tropical Forest Research Institute, Jabalpur and presented a paper in the conference.

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