

PROFORMA

1. Name : Dr Abhaya Kumar Dalai

2. Designation : Reader in Botany

3. Date of Birth : 01.02.1953

4. Educational Qualifications :

| Sl. No. | Qualifications | Year of Passing | Subjects (PG onwards) | Division | Name of the University |
|---------|----------------|-----------------|-----------------------|----------|------------------------|
| 1 | B.Sc. | 1974 | Botany (Honours) | First | Utkal University |
| 2 | M.Sc. | 1976 | Botany | First | Utkal University |
| 3 | Ph.D | 1990 | | NA | Utkal University |

5. List of Publications

A. Papers Published in National & International Journals

| Sl. No | Title | Name of the Journals with Full Address | Number | Volume | Month & Year of Publication | Page No From - To | National/ International |
|--------|--|--|---------------------|---------------|-----------------------------|-------------------|-------------------------|
| 1 | Constraints of photosynthetic potential development in young rice seedlings under moisture stress. | Trends in Photo-synthetic Research Ed: Biswal, U.C. and Britton, G. | Agro Bot Publishers | Edited Volume | 1989 | 245 – 258 | International |
| 2 | Manganese phytotoxicity during seedling growth of wheat (<i>Triticum aestivum</i>) | Plant Sci. Res. | 1-2 | 17 | 1995 | 32-38 | National |
| 3 | Photomorphogenetic effect on callus initiation in tuberose (<i>Polianthes tuberosa</i> L.) | Plant Sci. Res. | 1-2 | 24 | 2002 | 43-45 | National |
| 4 | Manganese phytotoxicity during growth and chlorophyll development in maize (<i>Zea mays</i> L.) seedlings | Plant Sci. Res. | 1-2 | 25 | 2003 | 58-65 | National |
| 5 | Role of auxins for callus induction and chromosomal variation in <i>Polianthes tuberosa</i> 'Single' | Ind. J. Genet. | 2 | 64 | 2004 | 173-174 | International |

B. Number of Books Published

| Sl. No | Title | Year of Publication | Name & Address of Publisher | Text Book/ Reference Book |
|---------------|---|----------------------------|--|----------------------------------|
| 1 | NIJE PARIKSHA KARI DEKHA | 1994 1998 2002 | VIDYAPURI, CUTTACK | Popular Science |
| 2 | PHULA NRAIJARA GAHAN KATHA | 1998 | KISHORE KAHANI DDAKASHANI | Popular Science |
| 3 | UDVIDARA PRATIRAKSHAYA | 2000 | ARYA PRAKASHANI | Popular Science |
| 4 | BOTANY PRACTICAL BOOK | 2000 | ARYA PRAKASHANI | Reference Book |
| 5 | HIGHER SECONDARY (+2) BOTANY | 2002 | OSBTPP | Text Book |
| 6 | BOTANY GLOSSARY | 2002 | OSBTPP | Reference Book |
| 7 | BOTANY | 2003 | OSBTPP | Medical Entrance |
| 8 | GLOSSARY OF BIOTECHNOLOGY | 2003 | OSBTPP | Reference Book |
| 9 | DICTIONARY OF PLANT AND ENVIRONMENTAL STUDIES | 2003 | OSBTPP | Reference Book |
| 10 | HIGHER SECONDARY (+2) BIOTECHNOLOGY (PART I) | 2004 | OSBTPP | Text Book |
| 11 | HIGHER SECONDARY (+2) BIOTECHNOLOGY (PART II) | 2005 | OSBTPP | Text Book |
| 12 | HIGHER SECONDARY (+2) BIOTECHNOLOGY (PRACTICAL WORK BOOK) | 2005 | OSBTPP | Text Book |
| 13 | BIOCHEMISTRY GLOSSARY | 2005 | OSBTPP | Reference Book |

6. National /International Seminar/Conference/Symposium/Workshop Attended

| Sl. No | Year | Type Seminar/ Workshop/ Conference/ Symposium | Name of the Conference/ Seminar/Workshop/ Symposium | Sponsoring Agency With Address | Place | Title of the paper presented/ Subject of the Seminar |
|--------|------|---|---|---|---|--|
| 1 | 1979 | Summer Institute | Latest development in Physiology, Ecology and Biochemistry | UGC, New Delhi | Ravenshaw College | Participation |
| 2 | 1988 | National Seminar | Photosynthesis | Sambalpur University | School of Life Sciences, JyotiVihar | Constraints in photosynthetic potential development in rice seedlings under water stress |
| 3 | 1993 | Refresher Course | Advance methodology in Plant Sciences | UGC, New Delhi | Department of Botany, Utkal University | Participation |
| 4 | 1997 | Workshop | Analysis of common errors in Biology committed by the students at CHSE Exam.ination, Orissa | NCERT | Reginal Institute of Education, Bhubaneswar | Participation |
| 5 | 2001 | Workshop | Scientific and Technical Terminology in Oriya | Human Resource Development, Govt. of India | OSBTTP, Bhubaneswar | Participation |
| 6 | 2002 | Workshop | Theoretical and Practical aspects of Animal Tissue Culture | Govt. of Orissa | National Centre for Cell Science, Pune | Participation |
| 7 | 2002 | Medical Education Programme | Immunology | ICMR, New Delhi | Regional Medical Research Centre | Participation |
| 8 | 2005 | Workshop | Bioinformatics and its applications | DBT, Govt. of India | Institute of Life Sciences, Bhubaneswar | Participation |
| 9 | 2006 | Workshop | Desert and Desertification | Ministry of Environ. & Forest, Govt. of India | Dept.of Forest & Environ., & Pollution Control Board Orissa | Participation |
| 10 | 2006 | Seminar | Emerging trends in Plant Sciences: Morphology to Biotechnology | DBT, Govt. of India & CSIR, New Delhi | Ravenshaw College, Cuttack | Effect of growth regulator on direct and indirect plant regeneration in <i>Polyanthes tuberosa</i> L. (Single) |

7. Research Project Completed

| Sl. No | Title | Sponsoring Agency with Address | Duration From – To | Amount of Grant |
|--------|---|--------------------------------|--------------------|-----------------|
| 1 | Physiological and biochemical evaluation of rice cultivars to overcome the constraints of seedling establishment during drought | UGC | 1987 - 1990 | 12000 |
| 2 | Seedling establishment of different cultivars of maize under manganese toxicity | UGC | 1997 - 2000 | 35000 |
| 3 | Exploitation of somaclonal variants of tuberose (<i>Polianthes tuberosa</i> L.) for better genotype of floriculture interest | CSIR | 2002 - 2004 | 6,00,000 |

8. Ongoing Research Projects: NIL

| Sl. No | Title | Sponsoring Agency with Address | Date from which undertaken | Amount of Grant |
|--------|-------|--------------------------------|----------------------------|-----------------|
|--------|-------|--------------------------------|----------------------------|-----------------|

9. Whether awarded Ph.D - Yes

| Sl. No | Title of the Thesis | Name and Address of the guide | Year of Award |
|--------|---|---|---------------|
| 1 | Investigation on certain aspects of photosynthetic potential development in rice seedlings during the period of establishment | Prof. P.C. Tripathy Retd. Parija Professor of Botany Utkal University | 1990 |

10. Research Guidance:

A Ph.D.

| Sl. No. | Name of the Scholars | Regd. No. & Date | Title | Year of Award |
|---------|-----------------------------|--------------------------------------|--|--------------------------|
| 1 | Mr. Tapan kumar Das | 22 Botany 1997-98 Dt.21.8.1998 | Ecophysiological studies in certain mangrove species of Bhitarkanika | Thesis under preparation |
| 2 | Mr. Birendra Kumar Bindhani | 3- Botany, 2002 Dt.22.5.2002 | Exploitation of somaclonal variants of tuberose (<i>Polianthes tuberosa</i> Linn.) for better genotype of floriculture interest | Thesis under preparation |

B. M.Phil

| Sl. No. | Name of the Scholars | Regd. No. & Date | Title | Year of Award |
|----------------|-----------------------------|-----------------------------|--|----------------------|
| 1 | Ms. H. Pattnayak | | Manganese phytotoxicity during seedling growth and seed reserve mobilization in wheat (<i>Triticum aestivum</i> L.) | 1994 |
| 2 | Mrs. J. Behera | | Studies on host-parasite relationship of white rust of <i>Amaranthus gangeticus</i> L | 1996 |
| 3 | Ms. P.P. Kar | | Manganese phytotoxicity during growth and photosynthetic pigment development of wheat (<i>Triticum aestivum</i> L.) seedling. | 1996 |
| 4 | Mr. P.S.Tripathy | | Effect of flyash on seedling growth of mungbean (<i>Vigna radiata</i>) | 1997 |
| 5 | Ms. S. Mohapatra | | Photosynthetic pigment content of maize (<i>Zea mays</i> L.) seedling during establishment under manganese toxicity | 1999 |
| 6 | Ms. A. Mishra | | Studies on consequence of host-parasite interaction under tissue culture | 2000 |
| 7 | Ms. P. Mohanty | | Manganese phytotoxicity during growth and chlorophyll development in maize seedling | 2001 |
| 8 | Ms. L. Senapati | | Seasonal variation of the sewage water pollution in the Cuttack Municipality | 2004 |
| 9 | Mr. B. Patra | | Study of manganese phytotoxicity in rice (<i>Oryza sativa</i> L., ctv. Gayatri) seedlings. | 2004 |
| 10 | Mr. A. Sahoo | | Ethnobotanical information from Ayurvedic text of Orissa | 2005 |
| 11 | Ms. S. Sethi | | Isolation and characterization of microbes present in Bakhara | 2006 |

Signature