Curriculum vitae

Personal

Name: Dr. Priyanjali Priyadarshan Dixit (nee Ketaki Surendra Sane)

E-mail: ppd.agc@mespune.in

Academic Qualifications

Exam appeared	Year of passing	Marks obtained
Ph. D. (Zoology)	2008	
M.S. Zoology (Molecular Biology)	2001	74.00%
B.Sc. Microbiology	1999	67.00%
HSC	1996	78.80%
SSC	1994	89.71%

Ph. D. Thesis Title: "Mechanism of Syndrex®, an antidiabetic drug, under experimental diabetic conditions *in vivo* and *in vitro.* "

Principal Investigator: Dr. Saroj Ghaskadbi, Department of Zoology, University of Pune & **Co-investigator**: Dr. T.P.A Devasagayam, Bhabha Atomic Research Centre, Mumbai.

M.Sc. in Zoology (Molecular Biology), 2001, Department of Zoology, University of Pune, Pune 411007

B.Sc. in Microbiology: 1999, Dept. of Microbiology, Garware College, Karve Road, Pune

Academic awards and honours

2001-2003: Junior Research Fellowship under BARC - University of Pune Collaborative Research Programme

2003-2005: Senior Research Fellowship under BARC - University of Pune Collaborative Research Programme

Currently working as Head, Department of 1biotechnology since July 2022

Joined **Assistant Professor** (since July 2009) at Department of Biotechnology, Abasaheb Garware College, Karve Road, Pune

Projects:

1. 1 year project (2001): 'Syndrex protects mice from becoming diabetic after alloxan treatment' at Department of Zoology, University of Pune, Pune 7.

2. Summer training for 2 months April-May 2000: Comparative studies of laccase enzyme in different *Pleurotus* species at Indian Institute of Chemical Biology, Calcutta.

3. Worked as SRF DBT funded project entitled "Evaluation of oxidative stress in diabetic patients" which was in collaboration with K.E.M. Hospital.

Publications:

1. **P. P. Dixit**, A. Misar, A.M. Mujumdar, Saroj Ghaskadbi. Pretreatment of Syndrex® protects mice from becoming diabetic after streptozotocin injection. **Fitoterapia, 2010, 81:403-412.**
2. **Priyanjali P. Dixit**, Thomas P. A. Devasagayam, Saroj Ghaskadbi. Formulated antidiabetic drug Syndrex® has a strong antioxidant activity. **European Journal of Pharmacology,** 2008, 581: 516-525.
3. Manisha Modak, **Priyanjali Dixit**, Jayant Londhe, Saroj Ghaskadbi. T.P.A. Devasagayam. Indian herbs and herbal drugs used for the treatment of diabetes. **Journal Clinical Biochemistry and Nutrition**, 2007, 40: 163-173.
4. Sangeeta Sinha, **Priyanjali Dixit**, Sujata Bhargava, T.P.A Devasagayam and Saroj Ghaskadbi. Bark and fruit extracts of Gmelina arborea protect liver cells from oxidative stress. **Pharmaceutical Biology**, 2006, 44: 237-243.
5. **PP Dixit,** JS Londhe, Saroj Ghaskadbi, TPA Devasagayam. Antidiabetic and related beneficial properties of Indian medicinal plants. In: Herbal drugs, A twenty first century perspective. R K Sharma and Rajesh Arora (Eds.) Jaypee Brothers Medical Publishers P. Ltd. 2006, 377-386.
6. **Priyanjali P. Dixit**, Saroj Ghaskadbi, Hari Mohan and Thomas P.A. Devasagayam, Antioxidant activities of germinated fenugreek seeds, **Phytotherapy Research**, 2005, 19: 977-983.
7. Devasagayam T.P.A., Tilak J.C., Boloor K.K., **Sane K.S**., Ghaskadbi S.S. Free radicals and antioxidants in human diseases: current status and future prospects. Journal of Association of Physicians of India, 2004, vol 52, 894-904.
8. Devasagayam T.P.A., Tilak J.C., Hari Mohan, **Sane K.S**., Ghaskadbi S.S. Free radical

damage as possible cause of disease development and its prevention by some natural products. ISRPAS Bulletin, 2002, vol 13, 25-30.

Conferences and Symposia attended:

Poster presentation at 'Recent trends In Modern Biology', Department Of Zoology, University Of Pune, Pune, March 2007.

Poster presentation at 1st International Symposium on Natural Products in Health, at Mahasarakham University, Thailand, Oct. 2005. Received **Best Abstract Award**.

Poster presentation at International Conference on Antioxidants and Free Radicals in Health Nutrition and Radio Protectors in IV Annual Conference of the Society for Free Radicals Research in India (SFRR), Bangalore, Jan. 2005

Poster presentation at II Annual Conference of SFRR-India and "International Conference on Role of Free Radicals and Anti-Oxidants in Health & Disease. Lucknow, Feb. 2003

Expertise

Microbiology:

Basic techniques in Microbiology such as growing and maintaining bacterial cultures, growth curve analysis.

Molecular biology:

Plasmid extraction and purification by classical method, DNA and RNA purification, One and two-dimensional agarose gel electrophoresis, transformation, Southern blot Western blot, dot blot analysis.

Animal cell culture:

Establishment and maintenance of primary cell line, organ culture, Culture of islets from mouse pancreas.

Biochemistry:

Protein purification and estimation, Native and SDS-polyacrylamide gel electrophoresis. Western Blots

Others:

Pulse radiolysis.

Teaching Experience: 13 years experience as a lecturer in Abasaheb Garware College, Department of Biotechnology

Subjects Taught: Molecular Biology, Recombinant DNA Technology, Developmental Biology Animal Tissue Culture, Animal Biotechnology, Stem cell technology, Immunology along with respective practical courses.

Guided more than 30 students for T.Y. B.Sc Projects. Two of these students won the first prize in Project Presentation Competition at Modern College, Pune