

## BIODATA



*Prof. Sangeeta G.Sankhalkar, PhD.*

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Sex: Female

Nationality: Indian

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**EDUCATIONAL QUALIFICATION:** Basic Primary Education upto 4<sup>th</sup> std in Marathi medium in Govt school, New Vadem.

Examinations	Name of the Board/ University	Year of Passing	Division/ Class/ Grade	Subject
M.Sc	Goa University	April 1995	First (A)	Botany
PhD	Goa University	Feb, 2001	Botany (Plant Physiology) <b>Thesis Title:</b> Photoinhibition of photosynthesis and possible role of Xanthophyll cycle in protection against photo-oxidative stress in sorghum seedlings	

## EXPERIENCE DETAILS AND POSITION:

Sr. No.	Position	From – To	Employer
1	JRF	Dec.95-April 97	Goa University
2	Lecturer	Aug. 97- April 98	St. Xaviers College, Mapusa, Goa
3	Lecturer	20 <sup>th</sup> Jun 1998. April 1999	Smt. Parvatibai Chowgule College, of Arts and Science, Margao, Goa.
4	Lecturer	Lecturer August 1999	
5	Senior Scale Lecturer	August, 2004	
6	Assistant Professor	August 2008	Parvatibai Chowgule College, of Arts and Science, (Autonomous) Margao, Goa.
7	Associate Professor	August 19, 2011	
8	Professor	<b>1<sup>st</sup> January 2016 onward</b>	Parvatibai Chowgule College, of Arts and Science, (Autonomous) Margao, Goa.

## ACADEMIC EXPERIENCE:

- Head of the Botany of Department from April, 2014– 5<sup>th</sup> June 2018.
- Chairman of Board of studies in Botany from 2014- 2018
- Chairman of Board of Studies and course coordinator in Biochemistry 2015-16.
- Organizing National ‘Hands on Training workshop in Molecular Biology and Bioinformatics’ first of its kind partly by video conferencing at Chowgule College.
- HOD Botany October 23, 2020 onward

## RECOGNITIONS:

- Recognized as **Professor** from **1<sup>st</sup> Jan 2016** by Department of Higher Education (DHE) Govt of Goa.
- Recognized as **PhD Research guide in Botany** by Goa University from **Nov, 2014** onwards.

## FELLOWSHIP/AWARD:

- **INTERNATIONAL FELLOWSHIPS**
- ✓ Recipient of **BOYSCAST FELLOWSHIP 2006-07**, Sponsored by Department of Science and Technology (DST-SERB), Government of India at the School of Biosciences, University of Exeter, UK, for advanced training in Molecular Biology of biotic and abiotic stresses in plants for 12 months. Worked under the supervision of Prof. Nick Smirnoff.

- ✓ **Post Doc Research** at Botanical Research Institute I, Wurzburg, Germany from April to June 2000. Worked under the guidance of Prof. U. Heber.
- **NATIONAL FELLOWSHIP 2020-2021**
- ✓ **Recipient of Indian National Science Academy (INSA)**, Govt of India visiting Scientist fellowship **2020-2021** to conduct research at University of Hyderabad.

**RESEARCH PROJECTS:** Completed

<b>Funding Agency</b>	<b>Title</b>	<b>Sanctioned amount (Rs)</b>	<b>Duration</b>
<b>DST (SERB) Major research project:</b> (Ref. No: Sr/So/PS/0119/2010): (2012-2015)	'Non enzymatic (ascorbate induced) antioxidant enzyme protection in rice seedlings (salt tolerant) grown in saline khazan fields of goa and its comparaison with salt sensitive rice variety''	<b>22,92,000/-</b> <i>(1<sup>st</sup> highest sanctioned amount project to Chowgule College)</i>	3yrs
<b>UGC (WRO) Minor research project</b> (Ref. No.: F:47-1419/10: 2010-2012.	' <b>Characterization of <i>Moringa oleifera</i> for its antioxidant molecules in vegetative and reproductive tissues''</b>	<b>1.50 Lakh</b>	2 yrs

**INTERNATIONAL ACADEMIC EXPERTISE:**

- **Twelve months of research experience at the School of Biosciences, University of Exeter, UK during April 2007- April 2008, in field of Molecular Biology of biotic & abiotic stresses in plants under the supervision of Prof. Nick Smirnov and Prof. Murray Grant. Gained expertise in**
  - ✓ **Gene expression studies using RT PCR and other molecular techniques**
  - ✓ **Assay of Nucleic acids and their ion by Gel Electrophoresis**
  - ✓ **Creation of Transgenic plants**
  - ✓ **Analysis and Quantitation of Antioxidants by Microplate reader**
  - ✓ **Infiltration technique for biotic stress treatment in plants and fluorescence monitoring.**
- **Research training with Prof. U. Heber, at Botanical Research Institute I, Wurzburg, Germany from April - June 2000. Gained expertise in**

- ✓ **Photosynthetic studies in lichens using fluorometer.**
- **Sweden Exchange Program 21April- 4thMay 2016 at Tullinge Gynnasium, Sweden. Guided two students on Project ‘‘Comparative study of Lichen & Moss diversity in Context to Sweden and Goa.’’**

#### **NATIONAL ACADEMIC EXPERTISE:**

- Junior Research Fellow in the DAE Sponsored project under the guidance of Prof. P. K. Sharma, Department of Botany, Goa University from Dec.95 to April 96.
  - Worked toward my PhD under the guidance of Prof. P. K. Sharma, Present Dean for Life Sciences and Environment, Goa University from 1996 –March,2000.
- Gained Expertise in
- ✓ Antioxidant enzyme characterization & phytochemical detection in plant using spectrophotometer.
  - ✓ Isolation of intact chloroplasts and measurements of electron transport chain using oxygen electrode (Oxygraph).
  - ✓ Gel electrophoresis and PCR technique.
  - ✓ Chlorophyll fluorescence measurements by fluorometer
  - ✓ Isolation and separation of plant pigments including xanthophylls using HPLC.
  - ✓ I have also standardized technique for determination of ABA using HPLC.
  - ✓ Quantitation of plant antioxidants and detection.
  - ✓ TLC for separation of Pigments and GC for separation of membrane lipids (Total, glucose, phospho and neutral).

#### **SCHOLARLY ACHIEVEMENTS:**

- P. K. Sharma, Preeta Anand, and **Sangeeta Sankhalkar (1998)** Oxidative damage and changes in activities of antioxidant enzymes in wheat seedlings exposed to UV-B radiation. **Current Sci.** 75:359-366.
- P. K. Sharma, Preeta Anand and **Sangeeta Sankhalkar** and Rajendra Shetye (1998) Photochemical and biochemical changes in wheat seedlings exposed to supplementary UV-B light. **Plant Sci.** 132: 21-30.
- P.K. Sharma and **Sangeeta Sankhalkar** and Yvonne Fernandes (2002) Possible function of ABA in protection against photo damage by stimulating xanthophyll cycle in Sorghum seedlings. **Current Sci.**82:167-171.

- **Sangeeta Sankhalkar** and P.K. Sharma (2002) Protection against photooxidative damage provided by enzymatic and non-enzymatic antioxidant systems in sorghum seedlings. **I. J. Exp. Biol.**40: 1260-1268.
- **Sangeeta Sankhalkar** and Prabhat Sharma (2005) Photoinhibition of photosynthesis: Role of Abscisic acid and antioxidants. **Physiol. Mol. Biol. Plants** 11:1-15.
- **Sangeeta Sankhalkar** (2014) Antioxidant enzyme activity, phenolics & flavanoid content in vegetative & reproductive parts of *Moringa oleifera* Lam. **American Journal of Pharmtech Research**, 4 (3) 254-270.

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