



## Sinhgad Technical Education Society's

Sinhgad College of Engineering  
Vadgaon (Budruk) Off. Sinhgad Road, S.No. 44/1,



Dr. Sudha Jayant Kulkarni

**BE BIOTECH**

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### Academic Qualification

Degree	Institute Name	University Name	Year of Passing	Percentage	Grade	Qualification Status
Ph. D. Biochemistry	University of Pune	University of Pune	2010	-	NA	Completed
M.Sc.	Dr. B.A.M.U.	Dr. babasaheb ambedkar marathwada university	1995	58.75%	higher second class	Completed
B.Sc. Chemistry	Science College, Nanded	Dr. babasaheb ambedkar marathwada university aurangabad	1993	66.86%	First division	Completed

### Conference Details

Name	Venue	Date	Level	Category	Type	Sponsored By
Biomaterials, Tissue Engineering And Medical Diagnostics	IIT Delhi, 2006.	24 Feb 2006 to 26 Feb 2006	National	Research		IIT Delhi
11th National Seminar on Physics And Technology of Sensors	UOP, Pune	27 Feb 2006 to 01 Mar 2006	National	Research		University of Pune
12th National Seminar on Physics and Technology of Sensors	Bhabha Atomic Research centre, Mumbai.	07 Mar 2009 to 07 Mar 2009	National	Research		BARC
13th National Seminar on Physics and Technology of Sensors	University of Pune	03 Mar 2008 to 05 Mar 2008	National	Research		University of Pune

Recent Developments in chemistry	University of Pune	14 Feb 2007 to 15 Feb 2007	International	Research		University of Pune
The tenth world congress on biosensors	Shanghai, China	14 May 2008 to 16 May 2008	International	Research		Elsevier
International conference on Bioscience, Biochemistry and Bioinformatics	Singapore	26 Feb 2011 to 28 Apr 2011	International	Research		IEEE
International conference on Industrial Biotechnology (ICIB 2012)	Patiala, India	21 Nov 2012 to 23 Nov 2012	International	Research		BRSI
International conference on advances in Biotechnology and patenting (ICABP-2013)	Tiruchirappalli, Tamilnadu, India	18 Feb 2013 to 21 Feb 2013	International	Research		eventMnetwork
An International conference on challenges and prospects in biotechnology and packaging industry	SIES graduate school of technology, Navi Mumbai, Nerul	28 Feb 2013 to 01 Mar 2013	International	Research		SIES graduate school of technology
Extraction and Quantification of Trans-Resveratrol from Prunus avium	International conference on Bioprocessing India 2014?????? ICT, Mumbai	18 Dec 2014 to 20 Dec 2014	International	Research		ICT Mumbai
DEVELOPMENT OF ACID PHOSPHATASE INHIBITION-BASED AMPEROMETRIC BIOSENSOR FOR DETERMINATION OF INORGANIC PHOSPHATE	International Symposium on Physics and Technology of Sensors, YASHADA, Raj Bhavan Complex, Baner Road, Pune	08 Mar 2015 to 10 Mar 2015	International	Research		IEEE
Inter conf on advances in asian medicine	Pune	04 Jan 2016 to 07 Jan 2016	International	Research		Shri Baidyanath Ayurved Bhavan
international conference on advances in asian medicine	Pune	04 Jan 2016 to 07 Jul 2016	International	Research		Shri Baidyanath Ayurved Bhavan

## Research Projects

Project name	Description	Status	Budget	Project type
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Development of acid phosphatase based biosensor for heavy metal ion detection	Acid phosphatase based fluorescence biosensor has been developed for estimation of heavy metal ions. It is based on inhibition of acid phosphatase enzyme activity exerted by metal ions. Acid phosphatase entrapped A-J biocomposite membranes have been employed for the development of fluorescence biosensor. The extent of inhibition for different toxic metal ions was studied by measuring the decrease in fluorescence intensity. The results indicate that the toxicity of the various metals tested toward immobilized phosphatase is ranged as follows: Hg <sup>2+</sup> > Cu <sup>2+</sup> > Cr <sup>2+</sup> . The storage stability of the enzyme at 40C was found to be more than two months. Generally, in inhibition based biosensor reuse of bioelement is quite difficult. In present studies regeneration of ACP membrane has been achieved successfully.	100	250000	Sponsored Projects
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### Research Papers and Journals

ISSN/ISBN No	Paper Title	Publish Date	Journal/Conference Name	Level	Paper Status	Authors
1726- 5479	Epinephrine Biosensor Using Tyrosinase Immobilized Eggshell Membrane	2009	Sensors and transducers	Refereed and Indexed Journal	Accepted and Published	Sudha Kulkarni
2277 3436	Extraction and purification of curcuminoids from Turmeric (Curcuma longa)	2013	International Journal of Pharmacology & Pharmaceutical Technology	Non-refereed but recognized and reputable journals and periodicals having ISBN / ISSN	Accepted and Published	Sudha Kulkarni

### Membership Details

Membership Body	Details	Duration	Level
Biotech Research Society of India (BRSI)	No. LM 932	17 Jun 2013 to	National
APCBEEES (Asia-Pacific Chemical, Biological & Environmental Engineering Society) senior membership		27 Jan 2011 to	International

### Patent Details

→ Patent on Indian at National level from 24 Apr 2015 to 26 Apr 2015.

### Post Held

Organization Name	Post	Organization Category	Appointment Status	Duration
Sinhgad College of Engineering	Assistant Professor	STES	Full Time/Temporary	Jul 14,2008 to

### Self Contribution

Organizational Development Contribution(2015-2016)			
Date	Venue	Contribution	Category

Organizational Development Contribution(2015-2016)			
Date	Venue	Contribution	Category

### Declaration

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date :01-Aug-2016

Dr. Sudha Kulkarni