



Dr. KALPANA SHRIKANT JOSHI

Professor and Head, Department of Biotechnology

 hodbiotech.scoe@sinhgad.edu

OVERVIEW:

Qualifications: F. M. A. Sc, Ph.D, in area of Genetic Engineering, M.Sc (Microbiology),

Experience: Teaching -20 years Industry: 2 years

Date of Joining STES: 01/06/2007

Skills and Proficiencies: Microbiology, Molecular Biology, Genetic Engineering,

SIGNIFICANT ACHIEVEMENTS:

- **Fellow of Maharashtra Academy of Sciences**
- **Listed in Stanford list of top 2% scientists in the world, 2022 Published in October 2023**
- **> 3 crores rupees funding from Government and Private agencies**
- >100 Publications in international and national journals of repute with about 5000 citations with h-index 37, i10-index 75
- Listed as top10 researcher in SPPU in QS world University ranking 2021
- Shortlisted by search committee for the post of VC of a cluster University
- Member/ Chairman Board Of Studies, RRC, Academic Council in Science and Technology Faculty of Savitribai Phule Pune University, Mithibai College, Mumbai
- Member of Advisory Panel for Scientific publications and In-vitro Pre-clinical Experiments, AYUSH Ministry, Govt of India
- Member of scientific panel for GMO and Foods, Foods Safety and Standards Authority of India (FSSAI), Govt of India, 2014-1
- Recipient of WiNER award of Tie, Delhi and DBT BIRAC, 2023
- Recipient of M. M. Sharma award for research in Science and technology of Marathi Vigyan Parishad , 2017
- Recipient of “Excellence in Integrative Medicine Research Award 2013” given annually by European Congress of Integrative Medicine
- Lupin Endowment Fellow at ICT (former UDCT) for the year 2010
- Guest Editor of Rasayana special issue of JAIM Elsevier journal
- Editorial Board Member of Elsevier Journal of Ayurveda and Integrative Medicine
- Invited speaker in international conferences in USA, Germany, SA
- Grants from government (Office of Princiial Scientific Advisor, DST-SERB, DHR, ICMR, MCHDR, AICTE) and private agencies
- Consultant to Pharma MNCs and funding from Intel, Dabur, Heinz, Glenmark
- Recipient of Biotech Ignition Grant of Rs. 50 Lakhs for Start UP (2018)
- IQAC coordinator, 2017-22, 2024
- Life Member, MBSI and BRSI, SFE

FUNDED RESEARCH

No.		Value (Rs. In lakh)	agency	
1	Role of Ayurvedic RasayanaPippali (<i>Piper longum</i>) in osteogenic differentiation of Human Umbilical Cord-derived Mesenchymal Stem Cells in 3D culture and diseased animal models	30	DST (SERB)	2019-2023
2	Phage resistant dairy cultures	49.85	BIG/BIRAC	2018-2021
3	MODROB	14.6	AICTE	2017-2018
4	Adjunct Faculty	6	AICTE	2017-2018
5	Supplementation of vitamin B12 to improve B12-folate ratio in pregnancy and its effect on birth outcome	18	Department of Health Research (DHR).	2017-2020
6	Exploring proliferative and Differentiation potential of Ayurvedic Rasayanas using Human Umbilical cord Mesenchymal stem cells	14	DST (SERB)	2017-2018
7	Bio-Prospecting and optimization of extraction of trans Resveratrol: commercially important anti-aging antioxidant polyphenol	2.30	Savitribai Phule Pune University, (SPPU)	2016-2018
8	Bioinformatics of H1N1 using HPC	5	Intel India	2012
9	SNP and expression of genes involved in metabolism of PUFA of pregnant women and their association with neonate anthropometrics	15	Indian Council of Medical Research (ICMR), Govt. of India	2011-2013
10	Functional Genomics for understanding holistic principles of Ayurveda therapeutics with Asthma as a model	47	Office of Principal Scientific Advisor through (DST), Govt. of India	2010-2014
11	LCPUFA status and Birth outcome in India: Indo-US Project in collaboration with Cornell University	35	Indian Council of Medical Research (ICMR), Govt. of India	2007-2010
12	Genomic variation analysis & gene expression profiling of "Human Dosha-Prakruti" based on principles of ayurveda	78	Office of PSA, DST, Govt. of India	2007-2011

NUMBER OF STUDENTS GUIDED:

- Ph. D- 10, PG – 25 , UG – > 50+ Groups

AREA OF EXPERTISE /RESEARCH INTERESTS:

Ayurveda Biology, Drug Discovery, Microbiology, LCPUFA

RESEARCH PULICATIONS:**Publication Summary:**

Total Publications= >100

Journal Papers- 83, Reviews- 17, Book chapters-17

Total citations >6000, H index-40, I10 index-96

<https://scholar.google.co.in/citations?user=HgruSZ4AAAAJ&hl=en>

RESOURCE PERSON AT SEMINAR AND CONFERENCES: NATIONAL

Sr. No	Date	Title of conference or Institution	Title/ Subject of presentation
Seminars & Conferences 2023-24 (National)			
1	October 26-27, 2023	An Autonomous Organization under the Ministry of AYUSH, Govt. of India), Goa, 403513	speaker at the Workshop on Prakriti tool validation,
2	Dec 22, 2024	Genetics, Immunology, Biochemistry and Nutrition (GIBN) at MUHS,	Genomics in Traditional Indian Medicine and The Way ahead- Lecture series on Genetics A comprehensive approach to health
3	March 8, 2024	Guest Speaker, Ecoclub-Kalpdhara, University of Delhi	International Women's day ,
4	30 th July 2024	ORGANIZER:IQAC & SCOE Dept. of Biotechnology	OBE for learning Enhancement FDP ATTENDED
	12 th August 2024	INVITED SPEAKER, Osmania University	Refresher course in Life Sciences organized by UGC-Malaviya Teacher Training Center, Osmania University, Hyderabad
Seminars & Conferences 2022-23 (National)			
5	March 2023	Ph. D Course Work @ SDCH, Pune	Genetics in dentistry.
6	24th March, 2023	Annual Pharmacology CME	Translational Medicine - Current status and Future Perspectives,
7	Tuesday, 29 th November, 20	Sir Vithaldas Thackersey College of Home Science (Autonomous), SNDT Women's	“Moving From Silos to Integrated Nutrition”“Integration of Nutrition and

	22	University, Mumbai and 'One Health, New Delhi	Ayurveda for Health and Diseases'
8	26 th November 2022,	DPU and SPPU. Pune	"OMICS tools for understanding TM concepts", CME on Evidence based traditional medicine for integrative health care,
9	1st - 4th December 2022.	AYUSH CoE and MAMB	"Basics of Cell and Molecular Biology'
Seminars & Conferences 2021-22 (National)			
10	2-6 May, 2022	Pune Institute of Computer Technology (PICT), Pune	Qualitative and Quantitative approaches for Quality Assurance through Performance indicators in Engineering Institutes
11	8 th March, 2022	Kalpdhara, Eco-Club Department of Environment Science Kalindi College	Talk's Title: "Exploring Science behind Ayurveda: Concept and Experimental Approach."
Seminars & Conferences 2020-21 (National)			
12	30th November 2020	One Day International e-Symposium & Panel SCOP, Vadgaon, Pune	"UNDERSTANDING IP FOR SCIENTISTS AND SCHOLARS".
Seminars & Conferences 2019-20 (National)			
13	April 16-18, 2020	KEM Hospital, Mumbai	Invited lecture
14	February 19 th , 2020	Bonn University	"Ayurveda Biology: studying concepts and interventions".
15	December 19-21, 2019	RamnarainRuia Autonomous College & Society for Plant Research (VEGETOS)	"Exploring science behind Ayurveda concepts and experimental approaches"
Seminars & Conferences 2018-19 (National)			
16	November, 29th 2019	CCIH, SPPU, Pune	"Biology of Ayurveda"
17	November, 28th 2019	CCIH, SPPU, Pune	"Grant writing for AYUSH projects"
18	27th of November, 2018.	Manipal	"Genome Biology in Health and Diseases"
19	Nov 15-Dec 14, 2018	ISHS, SPPU supported by the Department of Health Research, Government of India.	Traditional Medicine and Integrative Health'
20	August 4 th , 2018	CCIH, SPPU, Pune	"AYUSH research for new India- Vision and Strategies
21	23 and 24 march 2018.	Govt. college of pharmacy, Aurangabad	'ETHNOCON 2018' based on the theme of Exploring the domain:Past, present and future of India On global map

RESOURCE PERSON AT SEMINAR AND CONFERENCES: INTERNATIONAL

Sr. No.	Date	Title of conference or Institution	Title/ Subject of presentation
1	1st to 3rd May 2023	University of Patanjali, Haridwar, from. Ayurveda Biology	Keynote Speaker at Three-day 'International Conference on Achieving Holistic Health through Ayurveda along with Advanced Technologies'
2	30th November 2020	SCOP, Vadgaon, Pune	Invited speaker at One Day International e-Symposium & Panel Discussion on "UNDERSTANDING IP FOR SCIENTISTS AND SCHOLARS". The flagship event
3	December 19-21, 2019	Organized Jointly by Ramnarayan Ruia Autonomous College & Society for Plant Research (VEGETOS)	Invited lecture on "Exploring science behind Ayurveda concepts and experimental approaches" International Conference on Plant Biofactories: Strategies and Challenges (PBSC-2019)
4	29th 2019 November	Organized By CCIH, SPPU, Pune	Invited lecture on "Biology of Ayurveda" International Conference on AYUSH for future health challenges
5	November, 28th 2019	Organized By CCIH, SPPU, Pune	Invited lecture on "Grant writing for AYUSH projects" International Conference on AYUSH for future health challenges,
5	10 to 13 January 2018	The 3rd World Congress of Vedic Sciences (तृतीयं विश्व वेद विज्ञान संमेलनम्) jointly organised by Vijnana Bharati and Deccan College, Deemed University	Invited speaker "Molecular Ayurveda" at during Deccan College, Pune Maharashtra, to commemorate Swami Vivekananda's birth anniversary which falls on 12 January every year with a focal theme of "Vedic and Modern Sciences: Insights, Interfaces and Integration
6	6/02/2017 to 7/02/2017	<i>International Seminar</i> entitled "Therapeutic proteins: <i>Challenges and opportunities</i> " under QIP by Savitribai Phule Pune University at Sinhgad College of Pharmacy, Vadgaon,	Invited Speaker
7	August 11, 2016	Indo US symposium on Ayurveda organized by Interdisciplinary School of Health Sciences, Savitribai Phule Pune University, Pune	Invited Speaker, at International Center
8	5-9 SEPTEMBER, 2016	2016 BIENNIAL CONGRESS OF THE INTERNATIONAL	Invited Speaker at ISSFAL

		SOCIETY FOR THE STUDY OF FATTY ACIDS AND LIPIDS., STELLENBOSCH, SOUTH AFRICA	
9	29-30 th Jan 2016,	International Conference on Nutrigenomics and Nutrigenetics India. Organized by KTHM College, Nasik and GeneSupport with support from BCUD, Savitribai Phule Pune University.	Keynote speaker at Title: Nutrigenomics: Study of diet-gene interaction
10	May 18, 2015	Presented at ATS, B107 ASTHMA MANAGEMENT AND HEALTH EDUCATION, , Denver, Colorado USA	Oral presentation on Whole System Ayurvedic Intervention For Asthma- A Breath Of Fresh Air, Am J Respir Crit Care Med 191;2015:A3810-
11	6-10 June 2015	European Academy of Asthma, Allergy and Clinical Immunology (EAACI), Barcelona, SPAIN	Cytokine Changes in Patients of Asthma Undergoing Ayurvedic Intervention, Presentation at.
12	10-14 April 2015	IAVC, Holland	Plenary Speaker “Om to Genome”
13	25-27 October 2014	International Conference of Biotechnology and Bioengineering, , BITS, DUBAI	Invited Speaker,
14	on 27-28 December 2013	International Conference on “Integrating basic and translational research in Modern Biology” held in Vadodara	Invited Speaker
15	February 2013,	ICNGB, 2013, SRM University, Chennai	Invited Speaker, Pharmacogenomics: the genetic basis for variability in drug response
16	February 2013	Sneha MRC Meeting, Wellcome Trust (UK), Mysore,	Invited Speaker
17	November 2009	9th IPMB Congress held at St Louis, USA,	Symposia speaker , Microarrays in Herbal Drug Research
18	November 18-21, 2005	Cold Spring Harbor Laboratories (CSHL), USA	CSHL symposium on Pharmacogenomics

HONORS/AWARDS/ FELLOWSHIPS/ COMMITTEE MEMBERSHIPS

Sr. No.	Name of Award/ Fellowship etc.	Elected/ Honorary Fellow	Awarded by	Year of Award
1	WiNER Award	Woman in Entrepreneurial Research	DBT BIRAC and TiE dDelhi	2023
2	Fellow of Maharashtra Academy of Sciences	Honorary Fellow	Maharashtra Academy of Sciences	2021
3	Member of Advisory Panel for Scientific publications and In-vitro Pre-clinical Experiments.	Member of Advisory Panel	AYUSH Ministry, Govt of India	2020

4	M. M. Sharma award for research in Science and technology of Marathi Vigyan Parishad	Award	Marathi Vigyan Parishad	2017
5	Nominated as Member of scientific panel for GMO and Foods	Member	Foods Safety and Standards Authority of India (FSSAI), Govt of India	2017
6	DBT Representative in the IBSC of Fablife Technologies International Ltd. (FTIL), and Praj, Pune	DBT nominated member	DBT	2015 onwards
7	Recipient of “Excellence in Integrative Medicine Research Award 2013”	Award	given annually by European Congress of Integrative Medicine (ECIM)	2013
7	Recipient of Lupin Visiting Fellowship for the year	Visiting Fellow	ICT, Matunga	2010

SUBJECTS TAUGHT:

- Introduction to Immunology
- Genomics
- Biotherapeutics Technology
- Microbiology

FDP/STTP/SDP ATTENDED:

- AICTE recognized one Week FDP on Outcome Based Education, November 20-24, 2023, NITTR, Chandigarh. .
- One Week National Level FDP on Qualitative and Quantitative Approaches for Quality Assurance through Performance Indicators in Engineering Institutions organized by PICT-IQAC during May 2-6, 2022
- One Week FDP on NAAC Accreditation, Organized By DIMR IQAC Cell and Edumentor, July 21-27, 2020

RESPONSIBILITIES HANDLED AT STES/SPPU/SCOE/DEPT:

SPPU Level

Chairman Board of Studies Biotechnology Engineering, 2018- till date

Member, Academic Council, 2018-till date

Member, Engineering Faculty

Member, CB (Chemical and BioTech) Technology board, FoT

Institute Level (SCOE)

- Member of College Development Committee
- IQAC co-ordinator
- Member of Grievance Committee
- STP Coordinating HoD, for Biotechnology

DECLARATION:

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

Date: 10/12/2024

Signature

Dr. K. S. Joshi