


## Faculty Profile

<b>Name</b>	Dr Kalpana Joshi	
<b>Qualification</b>	Ph D (Biochemistry)	
<b>Experience</b>	Teaching- 20 Yrs., Industry- 4 Yrs.	
<b>Date of Joining STES</b>	06 July 2007	
<b>email id</b>	<a href="mailto:Hodbiotech.scoe@sinhgad.edu">Hodbiotech.scoe@sinhgad.edu</a>	
<b>No. of students guided</b>	Ph D – 14; Masters - 25	
<b>Publications</b>	<a href="https://scholar.google.co.in/citations?user=HqruSZ4AAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=HqruSZ4AAAAJ&amp;hl=en</a>	
<b>Patent granted/published</b>	<ol style="list-style-type: none"> <li>1. A process for extraction and purification of Resveratrol, Granted 2023-24</li> <li>2. A Model For Extracting Guaianolide From <i>Cyathocline Purpurea</i>, Granted 2017</li> <li>3. System for encapsulation and release of fragrant molecules using nanocontainer, Granted 2016</li> <li>4. A Germicidal composition for fruits and vegetable wash using Hydrophobin, Filed 2021</li> <li>5. A device for solid state surface fermentation in a continuous manner, Granted 2004</li> <li>6. A formulation containing Omega-3 fatty acids and a process for making such a formulation, Granted 2005</li> </ol>	

<b>Funded Research Projects Details: (Number)</b>	<p><b>More than 3 crores funding from Government and non-government agencies</b></p> <ol style="list-style-type: none"> <li>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, DST (SERB) INR 300000/-, 2019-2023</li> <li>2. Phage resistant dairy cultures, BIG/BIRAC, INR 49,85,000/-, 2018-2020</li> <li>3. MODROB AICTE, INR 14,60,000/-,2017-18</li> <li>4. Adjunct Faculty, AICTE, INR 6,00,000/- 2017-18</li> <li>5. Supplementation of vitamin B12 to improve B12-folate ratio in pregnancy and its effect on birth outcome, DST (SERB) 18,00,000/-,2017-2020</li> <li>6. Exploring proliferative and Differentiation potential of Ayurvedic Rasayanas using Human Umbilical cord Mesenchymal stem cells, DST (SERB),INR 14,00,000/-, 2017-18</li> <li>7. Bio-Prospecting and optimization of extraction of trans Resveratrol: commercially important anti-aging antioxidant polyphenol, BCUD,SPPU,INR 2,30,000/-,2016-2018</li> <li>8. Bioinformatics of H1N1 using HPC, Intel India, INR 5,00,000/- 2012-13</li> <li>9. SNP and expression of genes involved in metabolism of PUFA of pregnant women and their association with neonate anthropometrics, ICMR, INR 15,00,000/- 2011-13</li> <li>10. Functional Genomics for understanding holistic principles of Ayurveda therapeutics with Asthma as a model, DST,INR 47,00,000/-,2010-14</li> <li>11. LCPUFA status and Birth outcome in India: Indo-US Project in collaboration with Cornell University,DST,INR 35,00,000/-, 2007-10</li> <li>12. Genomic variation analysis &amp; gene expression profiling of “Human Dosha-Prakruti” based on principles of Ayurveda, DST,INR 78,00,000/-,2007-11</li> </ol>
<b>Consultancy Projects:</b>	<ul style="list-style-type: none"> <li>• A preliminary study to assess the role of medhya rasayana on proliferation and neurogenic differentiation using human stem cells as in vitro platform, funded by TDU, Bangalore in association with Solargize, 7.5 Lakhs, 2018</li> <li>• Bioinformatics of H1N1 using HPC, 5 Lakhs, Intel India, 2012</li> <li>• Consultant to Pharma MNCs</li> </ul>

<p><b>Significant Achievements:</b></p>	<ul style="list-style-type: none"> <li>• <b>Fellow of Maharashtra Academy of Sciences</b></li> <li>• <b>Listed in Stanford list of top 2% scientists in the world, 2022 Published in October 2023</b></li> <li>• &gt;100 Publications in international and national journals of repute with about 5000 citations with h-index 37, i10-index 75</li> <li>• Listed as top10 researcher in SPPU in QS world University ranking 2021</li> <li>• Shortlisted by search committee for the post of VC of a cluster University</li> <li>• Member/ Chairman Board Of Studies, RRC, Academic Council in Science and Technology Faculty of Savitribai Phule Pune University, Mithibai College, Mumbai</li> <li>• Member of Advisory Panel for Scientific publications and In-vitro Pre-clinical Experiments, AYUSH Ministry, Govt of India</li> <li>• Member of scientific panel for GMO and Foods, Foods Safety and Standards Authority of India (FSSAI), Govt of India, 2014-1</li> <li>• Recipient of WiNER award of Tie, Delhi and DBT BIRAC, 2023</li> <li>• Recipient of M. M. Sharma award for research in Science and technology of Marathi Vigyan Parishad , 2017</li> <li>• Recipient of “Excellence in Integrative Medicine Research Award 2013” given annually by European Congress of Integrative Medicine</li> <li>• Lupin Endowment Fellow at ICT (former UDCT) for the year 2010</li> <li>• Guest Editor of Rasayana special issue of JAIM Elsevier journal</li> <li>• Editorial Board Member of Elsevier Journal of Ayurveda and Integrative Medicine</li> <li>• Invited speaker in international conferences in USA, Germany, SA</li> <li>• Grants from government (Office of Princial Scientific Advisor, DST-SERB, DHR, ICMR, MCHDR, AICTE) and private agencies</li> <li>• Consultant to Pharma MNCs and funding from Intel, Dabur, Heinz, Glenmark</li> <li>• Recipient of Biotech Ignition Grant of Rs. 50 Lakhs for Start UP (2018)</li> <li>• IQAC coordinator, 2017-22</li> <li>• Life Member, MBSI and BRSI, SFE</li> </ul>
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