

FACULTY PROFILE



NAME : Dr. Shubhada Nayak
QUALIFICATION : M.Sc. Ph.D. [Microbiology]
Email ID : shubhadanayak@kbpcollegevashi.edu.in

DEPARTMENT & INSTITUTE: Microbiology.

DESIGNATION: Vice- Principal, Head of the Department, Associate Professor

YEARS OF EXPERIENCE: 27

SPECIALIZATION: Microbial Genetics, Molecular Biology Environmental Biotechnology

PUBLICATIONS [Since 2011]:

- a. **Nayak S. S.**, V. Carvalho, P. R. Salunkhe (2015), “Microbial Synthesis of Silver Nanoparticles and Their Impregnation on Natural Fibres”, Man-made textiles in India. pp 149-152.
- b. Ghosh S.B., K. Bhattacharya, **S. Nayak**, P. Mukherjee, D. Salaskar, S.P. Kale, (2015), “Identification of Different Species of Bacillus Isolated from Nisargruna Biogas Plant by FTIR, UV-Vis and NIR Spectroscopy”, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Elsevier, 148, pp 420-426.
- c. Jadhav K.C., D.B. Thakare, **S.S. Nayak** (2013)., “Study of gamma butyrolactone from *Streptomyces griseus* as an inhibitor of biofilm formation on indwelling medical devices”, J. Bionano Frontier, Vol.6/Issue-3, September 2013, pp:118-121, published by International Society of Science & Technology, Mumbai (M.S.),ISSN:0974-0678.
- d. Angolkar P.S., D.B. Thakare, **S.S. Nayak** (2013), “Assessment of antimicrobial efficacy of different brands of tooth pastes and mouth rinses against oral isolates and comparing it with natural extracts & probiotics”, J. Bionano Frontier, Vol.6/Issue-3, September 2013, pp:122-128, published by International Society of Science & Technology, Mumbai (M.S.), ISSN:0974-0678.
- e. Chauhan M. K. and **S.S. Nayak**, (2012), “Applications of *Chromobacterium violaceum* and its pigment-violacein” International Journal of Global Research in Science and Technology, Vol.1, Issue 1, pp:51-62.
- f. Salunkhe P.R., **S. S. Nayak**, (2012), “Microbial Synthesis of Silver Nanoparticles And Their Applications In Medical Textiles” Man-made textiles in India. pp 161-164.

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- g. Mahajan P. M., S. S. Nayak and S. S. Lele, (2012), "Fibrinolytic enzyme from newly isolated marine organism, *Bacillus subtilis* ICTF1, media optimization, purification and characterization". Vol. 113, Issue No. 3, pp:307-314, 2012. Journal of Biosciences and Bioengineering.

CONFERENCES ATTENDED/ PAPERS PRESENTED [Since 2011]:

- a. XIII Triennial National Conference of Indian Women Scientists' Association (IWSA), Sustainable Development in India: Role of Science & Technology on 2nd December to 4th December, 2016, as a panelist for panel discussion.
- b. "Global Biotechnology Summit" on 5th & 6th February 2016 at Vigyan Bhawan, New Delhi as celebration of 30 years of DBT.
- c. "The Economic Times Future of Learning Forum - 2nd Annual Edition", 19th November 2014, Mumbai.
- d. "Biopack 2013", International Conference on 28th Feb 2013 and 1st March 2013, as a resource person.

SEMINARS WORKSHOP ATTENDED:

- a. One-day seminar on "NAAC- AN EDGE IN HIGHER EDUCATION" Wednesday 16 December 2015 at Kohinoor Business School, Mumbai.

ACTIVITIES ORGANIZED (*Individual): In different capacities.

| Sr. No. | Title of the Activity | Dates | Beneficiaries |
|---------|---|-----------------------------|---------------|
| 1 | National Seminar on Bio-prospecting Microorganisms of Marine Environment | January 08, 2016 | 91 |
| 2 | National seminar on Microbiology Horizons in Biomedical Sciences | September 27 & 28, 2013 | 217 |
| 3 | National Workshop on Bioinformatics | February 6 & 7, 2016 | 51 |
| 4 | Workshop on Vitek-2 & Phase-contrast Microscopy | April 24 & 25, 2015 | 107 |
| 5 | National Workshop on Proteomic Technologies in bio-sciences | August 25 & 26, 2014 | 147 |
| 6 | Workshop on Ethics in Scientific Research [In collaboration with IWSA] | February 28 & March 1, 2014 | 73 |
| 7 | State level seminar on Funding Agencies that support Research in Colleges | February 27, 2013 | 65 |
| 8 | Refresher Course on Advances in Plant & Animal Biotechnology* | February, 3-16 2013 | 30 |
| 9 | Certificate Course on Ethics in Science & Technology | December 1-9, 2011 | 40 |

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RESEARCH PROJECTS:

- a. Production of Keratinase from *Bacillus spp.* and its process optimization for application in poultry and leather industry. [Funded by UGC]
- b. Green Process of impregnation of silver nano-particles into eco-friendly fibres and assessment of its antimicrobial activity. [Funded by University of Mumbai]

MEMBERSHIPS:

- a. Organization for Women in Science for the Developing World
- b. Indian Women Scientists Association
- c. Indian Science Congress

AWARDS /Fellowships:

Awards & Fellowships: “Dakshina Fellowship” by Shivaji University Kolhapur [1986]
“Teacher Fellowship” by University Grants Commission for doing Ph.D.[2005]

ANY OTHER DETAILS:

- a. Recognized by University of Mumbai as guide for M.Sc. [By Research]- since 2009.
- b. Recognized by University of Mumbai as guide for Ph. D.- since 2014.
- c. **Working as Coordinator, Internal Quality Assurance Cell – since January 2012.**
- d. Working as Coordinator, Department of Biotechnology – since January 2013.