

Department of Microbiology Faculty Profile

Name:	Dr. SHIVA C. AITHAL	
Designation:	Assistant Professor	
Qualification:	M.Sc., Ph.D. (Microbiology)	
Teaching Experience:	19 Years at PG 06 Years at UG Level (As on July 2012)	
Contact Address:	Department of Microbiology, DSM College, P.O. Box, 54, PARBHANI (M.S.) 431401	
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SPECIALIZATION

Research: Fermentation, SSF, Biofuels, Biomass Utilization and Enzymes.

Teaching: Molecular Biology and Genetics.

PAPER PUBLICATIONS

1. Shiva C. Aithal (2002) **"Processing grains for industrial alcohol production"** In Proceedings of Seminar on Opportunities in Utilization of By-Products from Agriculture and Food Processing Sectors (30-31 Jan.), Organised by Indian Society of Environmental Science and Technology (ISEST), MPKV'S College of Agriculture, PUNE.
2. Shiva C. Aithal (2003) **"Polyhydroxyalkanoates – Biodegradable plastics for the future"** In Proceedings of the National Seminar on impact of environmental pollution on biosphere and its control (2-3 Feb.), Organised by DhoteBandu Science College, GONDIA.
3. Shiva C. Aithal and D. N. Kulkarni (2006) **"Ethanol Production from Starchy grains"** in the Journal Everyman's Science Vol. XLI No. 3 pp 169-172, published by Indian Science Congress association, ISSN 0531-495 X.
4. Aithal S. C, P.S. Sirdeshpande and P.S. Wakte (2008) **"Empirical studies describing effect of Different parameters on Nisin production"** In National Journal of Life Sciences. *Life Science Bulletin* Vol. 6(1) 2009 Pp 119-123.
5. N.S. Kulkarni, D.D. Walke, R.R. Pachori and Shiva Aithal (2008) Growth response of *Salmonella* species and *E. coli* to different metal ions. In the International Quarterly Journal **Nature environment and Pollution and Pollution Technology** Vol. 7(4) Pp 759-762
6. R.R. Rakh, L.S. Raut, S.M. Dalvi, S.C. Aithal and A.V. Manwar (2009) **Efficacy of Secondary Metabolites of Rhizospheric Isolate CA/RN Against Sclerotium rolfsii.** *Bionanofrontier* Vol.2(2) Pp. 13-17.
7. Aithal S. C., N.S. Kulkarni and M.G. Bodhankar (2009) **Role of Microorganisms in controlling Hazardous waste Pollution.** (Pp 113-127) In **Environmental Microbiology**, Eds: Mishra B.B., Nanda D.R., Dave S.R., Pub: APH Publishing Corporation, New Delhi, INDIA.
8. S. V. Kshirsagar, **S.C. Aithal** and A.V. Manwar (2010) Studies on Multifaceted *Vibrio* sp. Isolated from Alkaline and Saline Lonar Lake. *Bionanofrontier* Vol.3(2) Pp. 182-188.
9. Aithal S.C., A.A. Sawalikar and A.V. Manwar (2011) **In Press. Production of Fungal Amyloglucosidase by Solid State Fermentation Using Agricultural Biomass.** *BionanoFrontier* Vol.4 (1), ISSN 0974-0678.
10. Shiva C. Aithal and N. S. Kulkarni (2011) **"MISS: Microbially Enhanced Sedimentary Structures"** in the **Journal Everyman's Science** Vol. XLV No. 6, pp 356-360, published by Indian Science Congress association, ISSN 0531-495 X.

PROJECTS

MAJOR RESEARCH PROJECT

On going: Working as **Co Investigator** on Major Research project as (PI Dr. Abhay Solunke, Sant Tukaran College, Parbhani) entitled "Studies on Productivity of Pleurotus sp. On different straws and its effect on nutritional indices of Spent straw" sanctioned by UGC wide letter No. 34-230/2008 (SR) dated 26/12/2008 amounting Rs. 5, 56, 800/- only (Rupees Five Lakh Fifty Six Thousand Eight Hundred only).

MINOR RESEARCH PROJECT

On going: Working on University funded Minor Research as **Principal Investigator** entitled "Optimization of Ethanol Production from Hybrid Sorghum" sanctioned by Swami Ramanand Teerth Marathwada University, Nanded wide letter No. BCUD/Min. Univ./2008-09/6416 dated 10/03/09 amounting Rs. 70,000/- (Rupees Seventy Thousand Only)

ONLINE ACTIVITIES

- 1. Popular lecture series videos on the internet at a scientific community website www.dnatube.com on**
 - a) ATPase (<http://www.dnatube.com/video/1065/Atpase>)
 - b) Gene expression (<http://www.dnatube.com/video/1064/Gene-Expression>)
 - c) Bacterial Conjugation (<http://www.dnatube.com/video/1066/Bacterial-Conjugation>)
 - d) Bacterial Transcription (<http://www.youtube.com/watch?v=c1Fo9aFHspo>)
- 2. Following Blogs Maintained for Academic development of Students:**
 - a) <http://shivaaithal.blogspot.com/>
 - b) <http://shivaaithalgenetics.blogspot.com/>
 - c) <http://cartoonsfromdsmp.blogspot.com/>

MEMBERSHIP

1. Member of Examination Panel for practical Examination at PG level, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
2. Member of Examination Panel for practical Examination at UG and PG level, Swami Ramanand Teerth Marathwada University, Nanded.
3. Member of paper setting committee at UG and PG level, Swami Ramanand Teerth Marathwada, University, Nanded.
4. Life member of Association of Microbiologists of India (AMI) New Delhi, since 2001.
5. Life Member of Biotech Research Society of India (BRSI) Trivandrum LM55: 2004.
6. The Indian Science Congress Association (ISCA) No.742B Date: 30-09-99
7. Indian Association of Aquatic Biologists (IAAB) No.170 Date: 25-10-99

BOOKS PUBLISHED

- 1. Glossary in Biotechnology and Genetic Engineering and Biographies of Related Scientists Handbook** (2008) Himalaya Publishing House. ISBN No: 971-81-8318-832-6 (Hard and Student Edn.- 226 Pages)
- 2. Pollution Control by Microorganisms: Biocontrol, Bioremediation and Other Emerging Technologies** (2009) Cinnamonteal Print and Publishing, Dogears Print Media Pvt. Ltd. ISBN No: 978-93-80151-23-6 (Paper back edition in 243 pages).
- 3. Modern concepts in Soil, Agriculture and Environmental Microbiology** (2010) Himalaya Publishing House. ISBN No: 978-81-8488-956-7 (Hard and Student Edition) Pages: (Paper Back Edn.-515 Pages).
- 4. Microbial Catabolism-A Review** (2010) Cinnamonteal Print and Publishing, Dogears Print Media Pvt. Ltd. ISBN No: 978-93-80151-19-1 (Hard Bound edition in 356 pages).
- 5. Air Microbiology-An Environment and Health Perspective** (2010) Cinnamonteal Print and Publishing, Dogears Print Media Pvt. Ltd. ISBN No: 978-93-80151-30-4 (Hard Bound edition -241 pages). (Added to B.Sc. II sem. Syllabus, SRTMU, Nanded)
- 6. Don't Talk-LISTEN-A Short Course on Effective Listening** by Dr. Shiva Chandrashekar Aithal and Sunil Modak. Published by Cinnamonteal Print and Publishing, Dogears Print Media Pvt. Ltd. Edition 1st, Year of Publication: 2011. ISBN [978-93-80151-98-4]. (Paper Back edition in 172 pages).

RESEARCH (As on JULY 2012)

Paper Publications in Journals: **10**

Paper Presentations in Various Conferences/Symposia: **52**

Invited Lectures as Resource Person: **10**

Guided Students for MSc Dissertation: **81**

Conferences/Symposia/Seminars/Workshops Attended: **46**

BOOKS PUBLISHED AS FIRST AUTHOR: 06

