

Name : Dr. Manjusha Sudhakar Dake

Designation : Assistant Professor

Email ID : manjusha.dake@dpu.edu.in

Contact Number : +91-9960900053

Academic Qualifications : (Ph. D.: Biochemistry)

Teaching Experience : (15 years)

Research Interest : Biochemistry: Enzyme, Alcohol fermentation)

Awards and Fellowships : (Departmental Research Fellowship)

Research Grants :

1. Title of project: Effect of Ethanol on carbohydrate, Proteins & membrane lipids of *Saccharomyces sp.*: Funded by Dr. D.Y. Patil University. Worked as a principal investigator. Research grant: Rs. 1, 40,000/-.
2. Title of project: Effect of Ethanol on carbohydrate, lipids and proteins of *Saccharomyces sp.*: Funded by Dr. D.Y. Patil University. Research grant: Rs. 14, 37,500/-.

Trainings /Workshops/ Seminars/ Conferences:

Presentation in Conferences: (Abstracts Published)

1. National conference Plant Physiology to be held at Jorhat, Assam Agricultural held during 5th to 7th Nov. 2009. Participation by oral presentation- To study the effect of plant α - amylase inhibitors from *Momardica charantia* on thermophilus bacterial α -amylase.



2. 50 th Annual conference of AMI, December 15 - 18, 2009. Participation by poster presentation- Studies on Lipases from Microbial Sources

3. State Level Conference on "Recent Trends in Physico Chemical Sciences, Biotechnology & Biodiversity" that was held on 12th and 13th February 2010, organized by Dr. D.Y. Patil A.C.S. College, Pimpri, Pune. Participation by paper presentation.- 'Effect on alcohol production by increase in carbohydrate source and other parameter on yeast fermentation.

4. International conference on "CONVERGENCE OF SCIENCE & ENGINEERING IN EDUCATION AND RESEARCH, A GLOBAL PERSPECTIVE IN THE NEW MILLENIUM" to be held on 21st to 23rd April, 2010. Participation by poster & paper presentation. "Studies on lipid profiles of *Saccharomyces sp.* and effect of physicochemical agents on flocculation'

5. "Annual Biotechnology Conference for for Students (ABCS-2010)" organized by ABCS-2010, Professor and Head, School of Biotechnology, Email: heos@isquareit.ac.in or sheomohan@yahoo.com; Tel: +91-9545089202 from 13th – 14th November 2010, Pune, India. Participation by poster presentation on "Studies on thermophile protease from Thermophilic bacilli isolated from hot springs". **Got Second Prize in Poster Competition at National Level Conference.**

6. "Annual Biotechnology Conference for Students (ABCS-2010)" organized by ABCS-2010, Professor and Head, School of Biotechnology, Email: sheos@isquareit.ac.in or sheomohan@yahoo.com; Tel: +91-9545089202 from 13th – 14th November 2010, Pune,India. Participation by poster presentation on "Studies on Enzymatic Activity of Microorganisms Symbiotically Associated with Orchid Roots (*Dendrobium Noble*)".

7. National Seminar on Frontiers in Biotechnology organized by Dr. D.Y.Patil Biotechnology & Bioinformatics Institute, Tathawade, Pune-411033, on February, 2011. Participation by poster presentation on “Studies on lipases from plant sources”.

8. National Seminar on Frontiers in Biotechnology organized by Dr. D.Y.Patil Biotechnology & Bioinformatics Institute, Tathawade, Pune-411033, on February, 2011. Participation by paper presentation on “Isolation of Yeast cells from sugarcane juice and study of α -Glucan- β -Glucan complex in relation to ethanol production as a Bioenergy source.

9. International Conference on 'Free Radicals and Antioxidants in Health and Disease' organized by MGM University of Health Sciences, Navi Mumbai on 09th January 2012. Participation by poster presentation on “Studies on β -Glucanase isolated from whey yeast”.

10. Second National Conference on Biotechnology, Bioinformatics and Bioengineering organized by Society for Applied Biotechnology www.sabt.org.in Hotel Atria, 204, 'E' Station Road, Kolhapur-416001 on 24 and 25 Feb., 2012. Participation by paper presentation on “Studies on intracellular and extracellular invertases from yeast.”

11. National Conference on Recent Trends and Future Prospects in Biological Sciences, organized by Department of Botany, Maharashtra Udayagiri Mahavidyalaya, Udgir, Dist. Latur. On 18th-19th January, 2013. Participation by oral presentation on “Studies on polysaccharide production of fungal sp.” (**Got First Prize in Oral Presentation at National Level Conference.**)

12. International Conference on Advances in Biotechnology & Bioinformatics & X Convention of The Biotech Research Society, organized by Dr. D. Y. Patil

Biotechnology & Bioinformatics Institute, Tathawade, Pune-411033 on 25-27, 2013:
Participation by poster presentation on 'Isolation of β -galactosidase from a yeast sp.
isolated from whey.'

13. International Conference on Advances in Biotechnology & Bioinformatics & X
Convention of The Biotech Research Society, organized by Dr. D. Y. Patil
Biotechnology & Bioinformatics Institute, Tathawade, Pune-411033 on 25-27, 2013:
Participation by poster presentation on 'Antibacterial activity of *Aureobasidium*
pullulans.'

14. International Conference on Advances in Biotechnology & Bioinformatics & X
Convention of The Biotech Research Society, organized by Dr. D. Y. Patil
Biotechnology & Bioinformatics Institute, Tathawade, Pune-411033 on 25-27, 2013:
Participation by poster presentation on 'Studies on alkaline lipase from thermophilic
bacilli.'

15. 27th International Carbohydrate Symposium organized by Department of Organic
Chemistry, Indian Institute of Science, Bangalore, 560012, India. Participation by paper
presentation on 'Variations of two pools of glycogen in *Saccharomyces cerevisiae*
(NCIM 109) grown with variable ethanol concentrations'.

16. International Conference of SAARC Countries organized by Microbiologist society,
Karad on 28th-30th December, 2002.- Participation by Poster presentation

17. Workshop in 'Molecular Biology' organized by Bangalor-Genie & Vidya Pratishthan's
Schhol of Biotechnology, Baramati, Pune, in 2004.

18. Workshop on 'Techniques in Molecular Biology' organized by Dr. D.Y.Patil
Pratishthan's Arts, Science & Commerce College on 10th Oct., 2007.

19. International Symposium on advances in Molecular Medicine & Clinical Implications organized by Reliance Institute of Life Sciences, Navi Mumbai on 24-25 Jan., 2009.

Others

1. Campaign on University Research Research Training organized by Shivaji University, Kolhapur in March 2001.-Participation by Poster presentation
2. Campaign on University Research Training organized by Shivaji University, Kolhapur in March 2002.-Participation by poster presentation.

Publications: (International Journals)

1. Jadhav JP, Dake M.S., Patil, NB (2006) Separation and characterization of β - glucanases from *Penicillium ochro – chloron*. Asian Journal of Chemistry. 18(2): 1191-1198. **[Scopus index; Impact factor: 0.173]**
2. Jadhav JP, Dake M.S., Patil, NB (2006) Variations of two pools of Glycogen and Ethanol in *Saccharomyces carlsbergensis*. Asian Journal of Chemistry. 18(2): 1443-1450. **[Scopus index; Impact factor: 0.173]**
3. Jadhav JP, Dake M.S., Patil, NB (2008) α , β - Glucan Complex in *Saccharomyces carlsbergensis*. Asian Journal of Chemistry. 20 (1): 55-65. **[Scopus index; Impact factor: 0.268]**
4. Dake MS, Jadhav JP, Patil NB (2009) Role of Ca^{2+} and Ethanol in The Process of Flocculation. Asian Journal of Chemistry. 21(5): 3419-3426. **[Scopus index; Impact factor: 2.958]**
5. Dake MS, Jadhav JP, Patil NB (2010) Variations of two pools of glycogen and carbohydrate in *Saccharomyces cerevisiae* grown with various ethanol concentrations.

The Journal of Industrial Microbiology and Biotechnology. 37: 701-706. [**Scopus index; Impact factor: 2.416**]

6. Dake MS, Khetmalas MB and Amarapurkar SV (2011) Role of insoluble glycogen in ethanol adaptation mechanism of *Saccharomyces italicus*. Indian Journal of Science and Technology. 4(1): 52-55. [**Scopus index**]
7. Dake MS, Tarawade SV and Patel HB (2011) Studies on Lipid Profiles of *Saccharomyces* sp and Effect of Physicochemical Agents on Flocculation. International Journal of Advances in Science & Technology. 2(1): 32-42.
8. MS Dake, JP Jadhav, NB Patil, Effect of variable sugar concentrations on glycogen and ethanol content in *Saccharomyces* sp., International Journal of food engineering, Vol. 7(5), 2011, pp. 1-10. [**Scopus index; Impact factor: 0.388**]
9. Dr. SV Amarapurkar, Dr. Manjusha Dake, Studies on enzymatic activity of micro-organisms symbiotically associated with orchid roots (*Dendrobium noble*) Orchid-Microbe interactions, International Journal of Science and Advanced Technology, Vol.1(4), 2011, pp. 117-125.
10. M.S.Dake and Gautam Kumar, Partial purification and characterization of fructosyl transferase from *Aureobasidium pullulans*, International journal of Science, environment and Technology, Vol.1(2), pp.88-98, 2012. [**Index Copernicus Impact Value: 4.70 (2012)**]
11. MS Dake, AN Puntambekar, SV Amarapurkar, Induction of β -Glucanase from whey yeast, International Journal of Pharmacy and Biological Sciences (e-ISSN: 2230-7605), Vol.2(2), pp.263-268, 2012.

12. Manjusha Dake and Sudha Amarpurkar, Role of ethanol and calcium towards the level of glycogen and surface α -glucans as a measure of flocculation in *Saccharomyces italicus*, Elixir Bio Tech., Vol. 48 , pp. 9572-9575, 2012. [**Index Copernicus, Scored Publication Impact Factor(PIF) of 5.525]**

13. Manjusha Dake and Rajyalakshmi Kasaram, Production and partial characterization of β -Glucanase from Galactomyces sp. Isolated from whey, Elixir Bio Tech., Vol. 53, pp. 11932-11936, 2012. [**Index Copernicus, Scored Publication Impact Factor(PIF) of 5.525]**

14. Garima Singh, Manjusha Dake, Identification of carbohydrate components in *Zymomonas mobilis strain* (2427) during ethanol production at various concentration of sucrose, The Global Journal of Pharmaceutical Research, Vol. 1 (5), pp. 1370-1378, 2012.

15. M.S. Dake and N. Beniwal, Antibacterial activity of *Aureobasidium pullulans*, International Journal of Pharma and Bio Sciences, Vol 5(3), (B) 1026-1048, 2014. [**Scopus index; Impact factor: 2.958]**

Publications * (National Journals)

16. Dake MS, Jadhav JP, Patil NB (2004) Induction and properties of (1-3) – β -D-gulcanases form *Aureobasidium pullulans*. Indian Journal of Biotechnology. 3: 56-64. [**Scopus index; Impact factor: 0.386]**

17. Dake MS, Amarpurkar SV, Salunkhe ML, Kamble SL (2010) Production of Alcohol by *Saccharomyces* sp. using Natural Carbohydrate Sources. Journal of Advanced Biotechnology. 10(6): 37-41.

Publications (Conference proceedings)

1. Amarapurkar SV, Dake MS, Mhatre V and Lokhande N (2009) To study the effect of plant α -amylase inhibitors from momardica charantia on thermophilus bacterial, fungal and plant amylase. Proceedings: National Conference on Frontiers in Plant Physiology Towards Sustainable Agriculture, 5-7 November,

Books (Monograph) Published:

Effect on alcohol production by increase in carbohydrate source and other parameters on yeast fermentation (Monograph). **Publisher:** LAP LAMBERT Academic Publishing GmbH & Co. KG Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany Pages (1-64)