

Dr. D. Muralidhara Rao, Ph.D., FAB

Asst. Professor(Sr.)

Department of Biotechnology

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Professional Experience:

- Assistant Professor, Department of Biotechnology, Sri Krishnadevaraya University, Anantapur, (2004- till date)
- Lecturer, Department of Biotechnology, Sri Krishnadevaraya University, Anantapur, (1999- 2004)

Awards and Honours

- Elected Fellow of the Applied Biotechnology (FAB)
- Qualified Lecturers Eligibility Test NET -1997(conducted University Grants Commission, New Delhi INDIA)
- Senior Research Fellowship in DST, Govt. of India
- Young Scientist Award by Society of Bioengineering Biotechnology and Bioinformatics
- Young Scientist award by International Medicinal plant Board.

Academic responsibilities:

- President (Honorary) Society for Bioengineering and Biotechnology, Department of Biotechnology Sri Krishnadevaraya University, Anantapur
- Co-ordinator B.Tech Biotechnology Programme (2009-Till date)
- National Service Scheme Programme Officer (2009-10)
- External member of the Board Studies in Biotechnology(Post-graduate) in JNTU,Anantapur.
- Resource person in refresher courses in Biotechnology at Academic Staff
- College, JNTU(H),Hyderabad

Research projects completed:

- Principal Investigator - "Bioprocess Development for Itaconic Acid Production from Agriculture Wastes, Funded by CSIR-Govt. of India, 2010-2013
- Principal Investigator - "Metabolic engineering following combinatorial approach to improve the activity of aspartate kinase for biotechnological production of L-Lysine by *Corynebacterium glutamicum* ATCC 13032". Funded by University Grants Commission, New Delhi, during June 2009-June 2012
- Co Investigator- "A Genome-based Bioprocess for L-Lysine production by using *Corynebacterium glutamicum*: Optimization of Process parameters, Funded by University Grants Commission, New Delhi, during June 2011- June 2014

Research guidance:

Ph.D. degrees awarded: Eight

M.Phil. degrees awarded: ONE

Academic affiliation:

Life Member, Indian Science Congress

Life Member, BRSI, India

Life member, society for Applied Biotechnology

Editorial Board Member, Journal of Phytochemistry and Natural products

PUBLICATIONS**More than 50 published in Peer reviewed Journal****Recent papers**

1. Shivananda,A.,Muralidhara Rao.,D. Jayaveera.K.N.(2013).Anticancer Activity of Extracts of Various Fractions of *Citrus maxima*(J.Burm.)Merr. On HeLa Cell line.Journal of Pharmacy and Chemistry.7(1).3-7.
2. Jyasimha Rayulu, D. D.MuralidharaRao, D.Subba Rao.(2013).Phyto chemical screening and Insilico approach for Identification of Anti stress compounds from Medicinal plants. International Journal of Applied Biology and Pharmaceutical Technology.4(1).324-338.
3. Shivananda,A.,Muralidhara Rao.,D. Jayaveera.K.N.(2013).Analgesic and Antiinflammatory activity of *Citrus maxima*.J Burn(Meer.)by Animal models. Research Journal of Pharmaceutical ,Biological and Chemical Sciences.4(2).1800-1810.

4. Krishnarjuna Reddy,C.V. Rajeshwar Reddy,E., D.Muralidhara Rao, A.V.N.Swamy.(2013). Insilico Exploration of Pyc gene from Corynebacterium glutamicum.ATCC 13032.Intenational Journal of Advanced Research in Engineering and Applied Sciences.2(1).23-34.
5. Gobinanth Shanmugam, Mahesh, A., D.Muralidhara Rao and Ganesan Subramanian.(2013).Hepatoprotective effect of Caralluma umbellate against acetaminophen induced oxidative stress and Liver damage in rat. Journal of Pharmacy Research 6.342-345.
6. Mokula Md. Rafi , M.G. Hanumanthu, S. Rizwana, Kadiyala Venkateswarlu and Dowlathabad Muralidhara Rao(2012) Effect of different physico-chemical parameters on fermentative production of itaconic acid by Ustilago maydis. J. Microbiol. Biotech. Res., 2012, 2 (5):794-800
7. Ramesh Malothu,Dowlathabad MR,Balanarasaiah.T(2012) Bioprocess TechnologyDevelopment and Convalescing production of L-lysine in Corynebacterium glutamicum. International Journal of Biological, Ecological and Environmental Sciences. ISSN 2277-4394,1(3)59-63
8. Claimer CS, Mahesh A, Sinilal B, Rao DM, Thangadurai D. (2012) Protective effect of Indigofera aspalathoides roots on N-nitrosodiethylamine-induced hepatocarcinogenesis in mice. Indian J Pharm Sci;74:157-60
9. Ayyavu Mahesh, Robert Jeyachandran, DowlathabadMuralidhara Rao (2012).Gastroprotective effect of Desmodium gangeticum roots on gastric ulcer mouse models. Brazilian Journal of Pharmacognosy.1085-91
10. VijayaLakshmi,N.,D.Muralidhara Rao., K.N.Jayaveera.(2012).DNA purification and PCR Standardization of Hildigardia populifolia (Roxb.)Schott&Endl.-A rare plant in Eastern Ghats. Current Biotica.6(3).313-319.
11. Ramesh Malothu, Nalini Mathala , Adarsh G , Muralidhara Rao D.(2012). Hepato protective activity and anti oxidant activity of Anthocephous indicus in ethanol induced hepatotoxicity in albino wister rats. International Journal of Phytopharmacology. 3(3), 245-248.
12. Ramesh. M, N. Padma lakshmi , G. Adarsh, S.V. Satyanarayana, and D. Muralidhara Rao (2012). Antimicrobial and antioxidant activity of leaf extracts of four common plants. International Journal of Biological & Pharmaceutical Research. 3(3): 488-497.

13. R. Srinu Venkat Rao, K.S.Rao, D. Muralidhara Rao, and A.V.N. Swamy.(2012) Studies on Production of L-Glutamic acid by Free and Immobilized cells of *Corynebacterium glutamicum* 13032. National Journal of Life Sciences.8(1) 2010 : 69- 71.
14. R. Srinu Venkat Rao, D. Muralidhara Rao, Mokula M. Rafi and A.V.N. Swamy.(2012). Optimization of Physical Parameters for the Production of L-Glutamic acid by *Corynebacterium glutamicum*. International Journal of Applied Biotechnology and Biochemistry.2(2)177-184
15. V.S. Kranthi, D. Muralidhara Rao and P. Jaganmohan.(2012). Production of Protease by *Aspergillus flavus* through Solid State Fermentation Using Different Oil Seed Cakes. International Journal of Microbiological Research 3 (1): 12-15.
16. MeenuSingh, D.Muralidhara Rao, Shivanshpande, sowjanyaabattu, Mahalakshmi, K.Rajeswer Dutt, M.Ramesh.(2011). Medicinal Uses of L-lysine: past and future. International Journal Of Research in Pharmaceutical Sciences ISSN: 0975-7538,2(4),637-642.
17. Subramanyam, Koon, Subramanyam Kondeti, Dowlathabad Muralidhara Rao and Rajasekhar Pinnamaneni.(2012) In vitro clonal propagation of *Jatropha curcas* (L.) using nodal explants and assessment of genetic fidelity through RAPD markers. Current Biotica 5(1): 1-16
18. Ramesh Malothu, Meenu Singh, Adarsh G, M.Abdul Rajak, S.V. Satyanarayana and D. Muralidhara Rao(2012), Over expression of Aspartokinase gene in *Corynebacterium glutamicum* for higher production levels of L-Lysine. International Journal of Biological & Pharmaceutical Research. 2012; 3(6): 758-761.
19. Meenusingh, D.Muralidhara Rao, Shivanshpande, sowjanyaabattu, Mahalakshmi, K.Rajeswer Dutt, M.Ramesh.(2011). Approaches for improving the production of L-Lysine in using *Corynebacterium glutamicum*. International Journal Of Research in Pharmaceutical Sciences. ISSN: 0975-7538.2(4),621-629.
20. Swamy,AVN, G. Ramalakshmi,Ch.V. R. Murthy and Muralidhara Rao.D. (2011)Studies on Production of cellulose from *Antigonum leptopus* leaves using *Trichoderma ressi* (NCIM1186) under solid state fermentation conditions. International Journal of Pharmaceutical Research and Development.Vol.3(7).193-200.
21. Tummaluru RamaMohanReddy , Bezawada karunakar Devanna.N , MuralidharaRao.D and G.Vidyasagar.(2011). Study on the phytochemical and In vitro

antimicrobial activity of *A.aspera*. IJPT. Vol. 3 Issue No.1 | 1889-1892.IISN No.ISSN: 0975-766X

22. Muralidhara Rao, D., S.Anitha,A.Aravinda, B.Karunakar,and Devanna N., (2010).Pharmaceutical Investigation and Biopesticidal activity of *Jatropha curas* L. seed oil on Digestive enzyme profile of *C.medinalis*, and *H.armigera*. International journal of Pharmacy.1(1).194-200.
23. Obulesu M, Dowlathabad Muralidhara Rao, Veera Bramha Chari P. (2011) Carotenoids and Alzheimer's Disease: An insight into therapeutic role of retinoids in animal models. International Journal of Neuro chemistry. 59(5):535-41.
24. Obulesu M, Dowlathabad Muralidhara Rao (2011). Effect of Plant effect of plant extracts on Alzeimers's disease. An insight in to therapeutic avenues. Journal of Neurosciences in Rural Practice. 2(1):56-61. DOI:10.4103/0976-3147.80102 PMID:21716802
25. B. Sarva Rao, D.Muralidhara Rao and AV.N. Swamy. (2011). Studies on Continuous Production Kinetics of L-Lysine by Immobilized *Corynebacterium glutamicum* 13032. Middle-East Journal of Scientific Research 7 (2): 235-240