

Dr. Anjaneyulu Musini
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Education:

PhD (Biotechnology) in the year 2016 at Centre for Biotechnology, IST, JNTUH, Kukatpally Hyderabad, India.

M.Tech (Biotechnology) in the year 2009 at Centre for Biotechnology, Institute of Science and Technology, JNTUH, Kukatpally, Hyderabad, India.

M. Sc (Genetics) from the department of genetics and Biotechnology, University college of Science, Osmania University Hyderabad, India, in the year 2006.

B. Sc (Botany, Zoology, Chemistry) from Osmania University Hyderabad in the year 2002.

EXPERIENCE:

Working as an **Assistant Professor** (contractual) from July 2016 to till date at CBT, IST, JNTUH Hyderabad, India.

Worked as a **Lecturer** from 17th November 2014 to June 2016 at CBT, IST, and JNTUH Hyderabad, India.

Doctoral Thesis: *Studies on antioxidant, anticancer and antibacterial activities of Salacia oblonga wall and isolation of potential bioactive compounds".*

Worked as a **Senior research fellow** from 2010 April to 2012 April at centre for Biotechnology, Institute of science and technology, Jawaharlal Nehru Technological University, Hyderabad, India and Celestial Bio labs Hyderabad, India.

Title of project: *"Scale up studies and process development for the production of L-Arginine by fermentation".*

M Tech Research project:

Completed M Tech one year project at Dept of Biochemistry (Dr. Sathees C Raghavan's lab) **Indian institute of science**, Bangalore, India.

Title of Thesis: *" Evaluation of plant extracts and a synthetic derivative for Cytotoxicity and Mechanism in Cancer Cells and Animal Model".*

R & D PROJECT

Completed R&D Project as a **principal investigator** sanctioned by TEQIP III (R& D activities to the faculty under R&D component). Duration: 28/09/2019 to 28/10/2020.

Title of project: Effect of *Salacia Oblonga* extract against drug resistant pathogen *Staphylococcus aureus* and study of its mode of action

Awards and Fellowships

- Qualified state level eligibility test (UGC-SET) for lectureship in the year 2018
- Canadian common wealth fellowship in the year 2012.
- DSIT-TIFAC senior research fellow in the year 2010.
- Qualified in all India level **GATE** 2007.
- Got **381** state rank (**Biological Science**) in Bachelor of Education common entrance test in the year 2003.

PUBLICATIONS:

- Somasagara RR, Hegde M, Chiruvella KK, **Musini A**, Choudhary B, Raghvan SC. Extracts of Strawberry Fruits Induce Intrinsic Pathway of Apoptosis in Breast Cancer Cells and Inhibits Tumor Progression in Mice. **PLoS ONE** 7(10):**2012**
- **Anjaneyulu Musini**, M. Jayaram Prakash Rao and Archana Giri Phytochemical investigations and antibacterial activity of *Salacia oblonga* Wall ethanolic extract. **Annals of Phytomedicine** 2(1): 1-6, **2013**
- **Anjaneyulu Musini**, Jayaram prakash Rao, Archana Giri Isolation of potential antimicrobial compounds from *Salacia oblonga* Wall and their synergistic effect on human pathogens. **Journal of Microbiology, Biotechnology and Food science** 5(1):**2015**.
- **Anjaneyulu Musini** and Archana Giri *Salacia oblonga* Wall An endangered plant of immenses pharmaceutical value. **Journal of chemical and pharmaceutical research**. 7(5):1125-1129, **2015**.
- **Anjaneyulu Musini**, Jayaram prakash Rao and Archana Giri Free radical scavenging and antiproliferative activity by the phytochemicals of *Salacia oblonga* Wall. **Journal of physiology and molecular biology of plants**. 21(4), **2015**.
- **Anjaneyulu Musini**, Suryakala Gandhi and Archana Giri HPLC Polyphenolics profile and H₂O₂ induced cytoprotective effect of *Salacia oblonga* extracts on human lymphocytes. **Advances in biological chemistry**. 6:19-27, **2016**.
- **Anjaneyulu Musini** Lakshmi Narasu Mangamoori and Lavuda Saida Production of L-Arginine from arginine analogue resistant mutants of *Cornu bacterium glutamicum*

International Journal of Scientific Research in Biological Science, 5(5), 11-15 2018.

- **Anjaneyulu Musini**, Bhargavi Pokala, Zahoorullah.S.MD, Prathima Yeddanapalli , Jahnvi Manchella, Antifungal activity of *Salacia oblonga* extracts Against Human Pathogen *Candida albicans* International Journal of Scientific Research in Biological Science 5(6): 220-223, **2018**
- **Anjaneyulu Musini** and Archana Giri Investigation of Mode of Action of Anti Bacterial Activity of Salacia Oblonga Extracts against Drug Resistant Pathogen. **Brazilian Archives of Biology and Technology**, 1-5, 63. **2019**.
- **AnjaneyuluMusini** , BhargaviPokala, Zahoorullah S.M.D and Archana Giri. Cytotoxicity of *Salacia oblonga* extracts against cancer and normal cells and isolation of bioactive compounds, Research Journal of Biotechnology, ISSN: 22784535, 09736263, 15, 105, **2020**.

BOOK CHAPTERS

- **AnjaneyuluMusini** and Archana Giri Bio Active Compounds of *Salacia oblonga* Wall Against Drug Resistant Pathogen *Staphylococcus aureus*, (2021) In: Bioactive Molecules against Infectious Diseases: Current Concepts & Updates, Innovationinfoebook, Heathrow Stockley Park, Heathrow UB11BD, UK ISBN: 978-1-63278-998-3, 1116-129.
- **Anjaneyulu Musini**, Priyanka Kandula Archana Giri. (2021) Drug Resistance Mechanism in *Staphylococcus aureus*. 355-376, Innovations in Biotechnology for a Sustainable Future, Springer Nature Switzerland AG, ISBN-978-3-030-80107-6.

NPTEL courses completed under FDP (2020-2021)

- Cell culture technologies
- Human molecular Genetics
- Biochemistry
- Tissue Engineering
- Genetic Engineering Theory and Applications

TECHNICAL SKILLS:

- **Animal cell technology**: Trypan blue assay, MTT assay LDH assay, DNA fragmentation assay and FACS cell cycle and Apoptosis analysis. Animal handling maintenance of cell lines in vitro and ehrlich ascites carcinoma in vivo.
- **Molecular Biology & r-DNA Tech** : DNA isolation from plants and animals, Plasmid isolation from bacteria, Electrophoretic techniques, Blotting (southern and western), Restriction digestion, Ligation, Transformation and PCR.

- **Biochemical And Microbiological:** Chromatography (Thin layer, Column, Paper, HPLC & FPLC), Separation of Proteins by SDS-PAGE, Protein estimation Bradford assay, Estimation of Arginine by sakaguchi test and glucose by DNS method ,Culture of microorganisms, Classical mutagenesis, Determination of minimum inhibitory concentration, and Replica plating. Comet assay.
- **Plant Biotechnology:** Media Preparation, Micro Propagation, Callus Induction in Rice, Production of Synthetic Seeds, Hairy Root Induction in Potato, Agro Bacterium Mediated Gene Transfer.
- **Fermentation Technology:** Handling of 10 L Bioreactor (Scigenics and Sartories Biostat B), Response Surface Methodology (CCD Design) for media optimization

RESEARCH SUPERVISION EXPERIENCE:

- Guided 1 M Tech (Biotechnology) and 15 M Sc (Biotechnology & Microbiology) students along with Dr. Archan giri and Dr. A Uma.

CONFERENCES & WORKSHOP:

- Participated FDP on “**Next Generation Sequencing and Data Analysis** through Hands on Experience” (06 -11th May 2019) organized by Electronics & ICT Academy, NIT Warangal (Sponsored by Ministry of Electronics and Information Technology) GOI.
- Participated GIAN on “**Metabolic Engineering of Microbial Biocatalysts for Production of Fuels and Chemicals: Principles and Practice**” held on 20th to 24th March, 2019 organized by JNTUH College of Engineering, Kukatpally, Hyderabad, Telangana State.
- Participated in a short term course on “**Recent advances in RNA Biology**” under the QIP of AICTE New Delhi conducted during 03-07 Dec 2018 at Indian Institute of Science (IISc).
- Participated in workshop on “**Emerging trends in patents and IPR & future implications**” organized by centre for Biotechnology Institute of science and technology JNTUH held on 24th April 2018.
- Participated in a short term course on “**Genetic Engineering- Principles and Applications**” under the QIP of AICTE New Delhi conducted during 24-28 April 2017 at **Indian Institute of Science (IISc)**.
- Presented paper in international conference ICBT-2017 (23-25 March), on “**Evaluation of anticancer potential of β amyriin isolated and characterized from *Salacia oblonga* Wall root extract**” organized by CBT, IST, JNTUH, India.
- Presented paper in national conference on recent trends in science and technology, 25-26 Feb 2015, organized by JNTUH college of Engineering, Karimnagar India.

- Presented poster in national symposium “**SIPRA innovative Pharma research awards-2015**” organized by Sipra labs limited Hyderabad India, held on July 2015.
- Participated two days **Indo-Canada Work shop** from Jan 27-28, 2011, on “Exploitation of Agro Industrial Biomass for Integrated Biofuels and Novel Products through Sustainable Production System”, held at **Indian Institute of Chemical Technology**, Hyderabad, India.
- Participated in the **Andhra Pradesh Science Congress** and annual convention of APAS 18-20, Nov, 2010, organized by JNTUH & Andhra Pradesh Academy of Science, Hyderabad, India.
- Participated in International Symposium on “**Emerging Challenges and Approaches in Cancer Biology**” Feb 21-24, 2009, organized by IACR, at Indian Institute of Science, Bangalore.
- Participated two Weeks Work shop from April 15th -26 2008, on “**Plant Cell Culture and Animal Cell Culture**” Conducted by centre for Biotechnology, Institute of Science and Technology, JNTU, Hyderabad.
- Participated in International Symposium on **Frontiers in Genetics & Biotechnology** held on January 8th 2006, organized by Dept of Genetics Osmania University, Hyderabad.
- Participated in National Symposia on **DNA fifty years** held on Mar 28, 2004 at Department of Genetics. Osmania University, Hyderabad.

Personal details:

Nationality:	Indian
Father Name:	Ramulu Garu
Mother Name:	Rameswaramma Garu
Marital Status:	Married
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REFERENCE:

Dr. Archana giri *PhD.*

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IST, Jawaharlal Nehru Technological University Hyderabad,
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Declaration: I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Hyderabad

Date: 8/20/2019

ANJANEYULU MUSINI