

# ANJALI JAYAKUMAR

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## EDUCATIONAL QUALIFICATION

Educational level	Institution	Board of Education	Year of Passing	CPI/CGPA/Percentage
M.Tech Biotechnology	Indian Institute of Technology (IIT) Guwahati	Indian Institute of Technology Guwahati	2021 (Expected)	9.81/10.00 (Current)
B.Tech Biotechnology	SRM Institute of Science and Technology (SRM IST), Kattankulathur	SRM Institute of Science and Technology	2019	8.28/10.00
Class XII	Atomic Energy Higher Secondary School, Kalpakkam	Tamil Nadu Board of Higher Secondary Education	2015	86.42%
Class X	Atomic Energy Central School, Anupuram	Central Board of Secondary Education	2013	10.00/10.00

## ACHIEVEMENTS

- Secured an all India rank of 128 (Percentile-98.63) in GATE-2019(Graduate Aptitude Test in Engineering) Biotechnology discipline
- Received an award from 'Department of Biotechnology, SRM IST' for appreciation of 'Excellence in Attitude'
- Won the 'Best Poster Presentation' award at the 'International Conference on Sustainable Energy and Environmental Challenges-2018'
- Received 'Performance Based Scholarship award' twice (in the year 2016 and 2019) for excellence in academic performance at SRM IST
- Won the 'Best Working Model' award for demonstrating the concept of 'Cymatics' in 'Techknow-2015', a technical exhibition hosted by the 'Department of Physics', SRM IST

## RESEARCH EXPERIENCE

- Graduate student**-Biochemical Engineering laboratory, IIT Guwahati **Feb 2020-present**  
Guide-Dr. Selvaraju Narayanasamy, Assistant Professor  
Research area- Remediation of wastewater through adsorption of pollutants
- Graduate student**-Bio PAT Laboratory, IIT Guwahati **Dec 2019-Jan 2020**  
Supervisor-Dr. Senthilkumar Sivaprakasam, Associate Professor  
Research area-Design and application of heat rate based soft sensor for real-time monitoring and control of bioprocess systems
- Undergraduate student**-Bioprocess Eng. and Bioseparation Laboratory, SRM IST **Aug 2016-May 2019**  
Guide-Mrs. Radha Panjanathan, Assistant Professor  
Research area-Microbial production of biofuels, biosurfactant and biopolymer nanocomposites using non-conventional feedstock

## INTERNATIONAL CONFERENCE PRESENTATIONS

- Presented a poster entitled 'Chicken Tallow oil an economical substrate for Biosurfactant production using *Yarrowia lipolytica* MTCC 9250. Production and Characterisation' at the International Conference on Sustainable Energy and Environmental Challenges 2018 hosted by IISc, Bangalore
- Presented a paper entitled 'Feasibility of paper mill sludge as a substrate for production of Bio-butanol using *Clostridium sporogenes* NCIM 2337' at the International conference on advances in Biotechnology and Biotherapeutics 2017 hosted by Satyabhama University, Chennai
- Presented a poster entitled 'Fabrication and characterization of carboxymethyl chitosan for the adsorption of cadmium and lead' at the International conference on recent advances in applied sciences, technology & health 2021 hosted (virtually) by SRM Institute of Science and Technology, Kattankulathur

## RESEARCH PUBLICATIONS

- **Jayakumar, Anjali**, Keerthana Prabhu, Lajja Shah, and P. Radha. "Biologically and Environmentally Benign Approach for PHB-silver Nanocomposite Synthesis and Its Characterization." *Polymer Testing* 81 (2020): 106197.
- Radha, P., Keerthana Prabhu, **Anjali Jayakumar**, S. Abilashkarthik, and K. Ramani. "Biochemical and Kinetic Evaluation of Lipase and Biosurfactant Assisted Ex Novo Synthesis of Microbial Oil for Biodiesel Production by *Yarrowia lipolytica* Utilizing Chicken Tallow." *Process Biochemistry* 95 (2020): 17-29.
- Radha, Panjanathan, Priya Suhazsini, Keerthana Prabhu, **Anjali Jayakumar**, and Ramani Kandasamy. "Chicken Tallow, a Renewable Source for the Production of Biosurfactant by *Yarrowia lipolytica* MTCC9520, and Its Application in Silver Nanoparticle Synthesis." *Journal of Surfactants and Detergents* 23.1 (2019): 119-35.
- Prabhu, Keerthana, **Anjali Jayakumar**, K. P. Sreelakshmi, Arnab Raha, Meghna Maitra, and P. Radha. "Utilization of Microbial Oil Produced from *Pichia kudriavzevii* NCIM 3653 Using Paper Mill Sludge as an Alternative Substrate for Biodiesel Synthesis." *Biofuels* (2019): 1-8.
- Gogoi, Harshita, V. Nirosha, **Anjali Jayakumar**, Keerthana Prabhu, Meghna Maitra, and Radha Panjanathan. "Paper Mill Sludge as a Renewable Substrate for the Production of Acetone-butanol-ethanol Using *Clostridium sporogenes* NCIM2337." *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* 40.1 (2017): 39-44.

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## CO-CURRICULAR ACTIVITIES

- Participated in 'Research Day-2019' celebrations and presented a paper entitled 'Utilization of microbial oil produced from *Pichia kudriavzevii* using paper mill sludge as a substrate for biodiesel synthesis' at SRM Institute of Science and Technology
- Got selected for and participated in the INSPIRE Internship Science Camp-2013 organized by Department of Science and Technology, India.

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## EXTRA-CURRICULAR ACTIVITIES/ POSITION OF RESPONSIBILITY

- Functioned as an event coordinator of 'Chemoflaughe' (a Chemical Engineering event) at 'AARUUSH-2016' (A National level inter college techno-management fest organized by SRM Institute of Science and Technology)
- Team member of publicity domain of 'SRMKZILLA' (A Mozilla Campus Club of SRM Institute of Science and Technology)
- National Cadet Corps, Army Wing 'A-Certificate' holder

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## LANGUAGES

- English, Tamil and Hindi
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