



Research Activities carried out by Students of Biotechnology

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Department of Biotechnology
2016-2020

Biotechnology being a research orientated subject, the students are motivated and groomed in this direction right from the Bachelor's first year. This develops their thinking and analytical capabilities. The students are encouraged to join in house projects lasting upto five years often leading to a research publication in their name by the time they pass out. This work is taken up by students is not part of University Curriculum. Small groups comprising of B.Sc as well as M.Sc students genuinely interested in research are formed wherein the juniors learn directly from their seniors in the group under the continuous supervision of the teachers.

The students working in such in house research projects learn several lab techniques and instrument handling which would not be possible in their routine practical classes. This gives the students unique advantage over students from other institutes and departments during interviews and even after joining the National institutes for Ph.D as well as internships. This distinctive practice was initiated since the inception of the department and it has been acknowledged time and again by scientists from national and international research institutes.

Students get a chance to showcase their original research work by participating in oral and poster competitions in national and international conferences. Several students have won prizes in Avishkar, the State level Research festival. Some students have also gone upto zonal level (Anweshan). It has also resulted in publications with students like Maitreyi Upadhyay, Sujata Agrawal, Dhanashree Pillai, Karishma Gangwani, Jaya Singh, Shaily Agrawal, Bernadette Mathew, Girija Jogwar, Sakshi Bajhal and Khuboo Agrawal as co-authors. All these students have benefitted immensely from this practice as they had a research publication very early in their research career and they have all already completed Ph.D or are pursuing Ph.D from the best of the institutes in India and abroad.

Adjustment of classes and project work requires a lot of time management on part of the students. Sometimes, however the students are so fascinated by the project work that they tend to miss out on regular classes and are needed to be counseled time and again to maintain the balance.

To further enhance their research skill and aptitude in Computational Biology, the department has been conducting a RTMNU approved Certificate course in Bioinformatics.

Year	Name of students	Project title
2019-20	Harshit Pardhi, Justin Sabu	Antibacterial activity of <i>Costus igneous</i> extracts
	Siddhi Bangale, Karthik Shivkumar, Saurav Angnani	Antimicrobial efficacy of liquid hand wash and sanitizer
	Nandini Umredkar	Silver nanoparticles from <i>Sida cordifolia</i>
	Sridevi Indapwar, Lavina Waswani, Tejaswini Dhurde	Activity of amylase in germinating seeds
2018-19	Girija Jogwar	Synthesis and characterization of nanoparticles from medicinal plants
	Carren Thomas, Neha Ambatkar, Akshata Nandanwar, Monica Lonhare ,Anchal Raut	To evaluate anti biofilm efficacy of CuNPs from Tulsi
2017-18	Ayushi Rambia, Deepak Khushalani, Gandhar Pusalkar, Hemanshi Dudani, Mugdha Nande	Novel Antimicrobial peptide from a rare actinobacterium
	Hardik Ashtekar, Pranjal Surywanshi, Pranav Yawalkar	Maintenance of Drosophila flies
2016-17	Tanvi Inamdar, Apoorva Masade	Ascorbic acid content of Indian gooseberry and kokum
	Gauri Shembekar	Biodegradation of plastic
	Harshna Thakur, Kasturi Kinhekar	Callus induction in medicinal plants