

“Technology & Research Management- Research to Rupees” GSBTM sponsored seminar at Dairy Science College, Anand



Biotechnology has integrated life sciences, biochemistry, molecular biology and chemical engineering and computer sciences and can have profound impact in the fields of agriculture, medicine, animal husbandry and environmental protection. Gujarat State Biotechnology Mission (GSBTM), under Department of Science & Technology, promote, support and facilitate the overall development of Biotechnology in the state.

A one day seminar on ‘Technology & Research Management-Research to Rupees’, sponsored by GSBTM was organized at SMC College of Dairy Science, AAU, Anand, on 20th March, 2017. The function began by lighting of lamp and an invoking Almighty with a prayer.

Dr. A. N. Bhadalkar, Sector Specialist, GSBTM, the chief guest of the function briefed on various activities of GSBTM like conducting training programmes for students, industrial visit, human resource development programme, entrepreneurship development programmes in collaboration with entrepreneurship development institute of India(EDI), Ahmedabad. He also threw light on need of commercialization of research. He also added that every research has two types of impact commercial as well as social citing example of probiotics which can help in culling malnutrition. He also deliberated on the new policies undertaken by government to sensitize the researchers and to assist them in all directions. Dr. Monal Shah, Research Associate, GSBTM, gave an overview about the theme of the seminar.





Dr. J. B. Prajapati, Principal & Dean, SMC College of Dairy Science, thanked GSBTM for hosting this seminar at SMC College of Dairy Science, AAU, Anand. He added that Anand Agricultural University have centre of Excellence in Biotechnology in Animal Science and Agriculture. He also stressed on the importance of commercial value added research projects with social impact. He said that although genome sequencing of culture strain are important, it is the end use of strain should be of more concern.

The seminar had four technical sessions.

Dr. A. N. Bhadalkar, Sector Specialist, GSBTM, spoke on research commercialization & technology impact; and on various government initiatives & policies for start-up and research commercialization. He began his speech by deliberating that research can help to make our nation economically strong. He went forward by exemplifying his topic using case study like *Axiostat*, the wound dressing products developed to stop severe uncontrolled bleeding instantly in emergency. He talked on techno-entrepreneurship, the need for creating an ecosystem consisting of problem/need based idea, prototype demonstration, approval, commercial production and product in use. He also explained the various phase through which a research finding need to travel starting from proof of research concept to scale up/ validation, then to risking seed funding, followed by market entry, growth and expansion. He stressed that this being an era of commercialization, and with provision of 'Startup India Action Plan' is the right time for techno-entrepreneurship.



He also discussed on start-up India Action Plan and various support systems at crucial stage like state government policies, availability of incubators, availability of funds for venture support, etc. Dr. Bhadalkar also briefed on efforts undertaken by GSBTM for creating environment for biotechnology entrepreneurship. His talk also covered topics on biotechnopreneur camp and Biotechnology Park at Savli.

He also elaborated on the National Biotechnology Development Strategy, 2015-2020, by the Union Minister for Science & Technology and Earth Sciences. The Strategy aims to establish India as a world-class bio-manufacturing hub. He said that the key elements would be implemented in collaboration and partnership with other ministries, departments, state governments and international agencies towards creating a technology development and translation network across the country with global partnership i.e. 5 new clusters, 40 Biotech incubators, 150 TTOs, 20 Bio-connect centres; and creating a life sciences and biotechnology education council too.



Dr. Monal Shah, Research Associate, GSBTM, spoke on major points to be considered for incubating an entrepreneurial project beginning from market need of idea to conceiving a well-planned marketing and business strategy. She also discussed on life cycle of a business and various stages of growth, history of incubation. She described incubators as entities geared towards speeding up the growth and success of start-up and early stage companies and briefed on incubation process. Dr. Monal also delivered on

Technology Business Incubators (TBI), incubation focus and benefits of incubators. She also briefed on DBT-BIRAC funded Savli Bio-incubator (SBInc) at Savli, Vadodara, housing wet lab facilities, pilot lab and related facilities, knowledge management and business acceleration centre and living lab. She also mentioned various infrastructure facilities at SBInc including wet/dry lab, modular labs, instrumentation and various other services offered at SBInc.



Ms. Ritu Trivedi, Knowledge & Technology Management Officer, SBInc, spoke on IP Clinic at Savli Bio-Incubator. She said that the basic aim of IP clinics is to bridge the gaps in knowledge, provide a competent base to gather information and allow to understand IP rights and its management. Knowledge will be imparted on how to patent your research and/or what research gap exist, drafting & filing strategies, IP licensing/ commercialization tips and

consultation with IP attorneys. This facility is basically for start-ups/innovators, Ph.D scholars/faculty members, Incubatees/ BIG applicants or grantees. She also spoke on 'Idea Doodle Lab' series under SBInc Pre-Incubation Programme. The series is meant for innovators/technology enthusiasts/entrepreneurs having an innovative idea or a product with commercial potential which is yet not ready for the market and needs further validation. She also discussed on what every researchers, should know about commercialization, rules to be followed for commercialization of scientific research, resources available for translational research and technology transfer organization.



The session invited number of questions from enthusiastic audience comprising of faculty members post graduate students and researchers from agriculture, animal science, food and dairy science disciplines. In the concluding session Dr. A. N. Bhadalkar encouraged scientist to become techno-entrepreneur. Dr. Subrota Hati, Assistant Professor, Dairy Microbiology Department, SMC College of Dairy Science and the Co-ordinator of the seminar proposed vote of thanks.