



IIT
Kanpur

TALK ON BIOENTREPRENEURSHIP

HIGHLIGHTS OF THE TALK

- What is Bioentrepreneurship? Why become a Bioentrepreneur?
- Commercialization Journey from Laboratory to Market
- Different Models for Commercialization
- Entrepreneurial Pathway for Researchers
- Government Initiatives for Bioentrepreneurship
- Funding Opportunities and Incentives
- Role of Incubators and Accelerators
- Success Stories of Young Bioentrepreneurs
- Bio-incubation Programme at IIT-Kanpur

The talk aims to create awareness about Bioentrepreneurship amongst students, research fellows and scientists for translation of technologies from laboratory to market

Be an Innovator

Be a Change-maker

Be an Entrepreneur!

Venue: DBEB Seminar room, Block 1,
Department of Biochemical Engg & Biotechnology,
Indian Institute of Technology - Delhi

Date: 1st August (Wednesday)

Time: 4:00 PM – 5:30 PM

Speakers:

Ms. Shreya Malik
Deputy Manager, BCIL
BCIL Coordinator, IITK Bio-incubation Program

Ms. Aditi Kumar
BIG Program Manager, Bio-incubator, IIT Kanpur

For details, please contact –Biotech Consortium India Limited, New Delhi;
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About the Talk: Bioentrepreneurship: Opportunities and Options

Biotechnology offers immense scope for strengthening economic growth through innovative technologies in application areas such as healthcare, agriculture, environment and processing. However, utilization of biotechnology applications in commercial operations is presently sub-optimal. The problems faced by India are unique and we can't depend on US or Europe to be solving them for us. We need to find solutions from within our resources, society and community. Sustainable economic development and growth in India is expected to originate from indigenous innovations, technologies, products and services.

Hence, Entrepreneurship has become an important determinant for achieving sustainable and inclusive growth, and has significant potential for creating further jobs beyond self-employment. The engine of bioeconomy is powered by the fuel of entrepreneurial energy- this can be seen in all major hubs of biotechnology across the world. There is an urgent need to encourage entrepreneurship in areas of biotechnology in India.

Promotion of the Indian biotechnology sector is high on the policy agenda of the Government of India. Biotechnology has been recognized as one of the key priority sectors under the 'Innovate in India', 'Startup India', 'Make in India' and 'Skill India' initiatives of the Government of India, being one of the few sectors on strong growth trajectory to drive sustainable economic growth and generate large scale employment opportunities. The Government of India has initiated several policies, programmes, funds and incubators to foster an innovation ecosystem prioritizing product innovation and commercialization.

Given this context, Biotech Consortium India Limited (BCIL) and Indian Institute of Technology Kanpur (IIT-K) are keen to encourage and promote self-employment in biotechnology as a career option for youth. The talk on 'Bioentrepreneurship: Opportunities and Options' is being organized as part of BCIL-IIT-K collaborative programme to promote bioentrepreneurship amongst researchers in the country.

This talk aims to create awareness about the various aspects of entrepreneurship, pathway to commercialization, entrepreneurial support mechanisms, key policy initiatives by the Government and grants and fellowships available for budding entrepreneurs. Commercialization through biotechnology involves taking an idea to a successful outcome in the market, whether it is a product, service or process of biotechnology. The stages of commercialization initiate with identifying an idea, need assessment, proof-of-concept, development, validation, animal studies, clinical trials, regulatory approval, commercial production and launch.

The talk also aims to inspire a spirit of entrepreneurship and self-employment amongst students, research fellows and scientists for translation of lab discoveries to commercializable products towards bio-entrepreneurship. During the talk, inspiring success stories and case studies of young entrepreneurs in the biotechnology sector in India shall also be shared with the audience.

Shreya Malik

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Professional Experience

1. Biotech Consortium India Limited, New Delhi (February 2011 – Present) Deputy Manager

PROJECT LEAD & COORDINATOR

- Wellcome Trust –AIIMS – BCIL Collaboration
- Independent Evaluation of 3 DBT-HRD Programmes – a) Post-Graduate Teaching Programme b) 2 Fellowship Programmes – JRF and RA
- Impact Assessment of 2 DBT-NER Programmes – a) Medical Infrastructure Programme b) MD/MS Thesis Programme
- DBT Review of Quality of Teaching in DBT funded Universities/Institutes Programme
- Detailed Techno-Commercial Report for Setting up Biopharma Industry Incubator at CDRI Lucknow
- BCIL – IIT-Kanpur Collaboration for Promotion of Bio-incubator Facility
- BCIL – CSIR-IIIM Collaboration for Promotion of GMP Herbal Extraction & Bio-incubator Facility
- Conducting Workshops on ‘Bio-entrepreneurship’

2. Intas Biopharmaceuticals, Ahmedabad (February – December 2009) IPM Executive

- **IP Management** – Need Assessment to identify Novel Patentable Process/ Product, Freedom to Operate, Infringement Analysis, Patentability/ Prior art, Designing around Patents and Drafting Patent Specifications.

3. BioChip Innovations Private Limited, Brisbane

(July – December 2008)

Product Development Officer

- **Product Development** – Portfolio Management of Medical Devices including IP Status, Implementation Plan, Market Intelligence and Milestone Monitoring.

Academic Journey

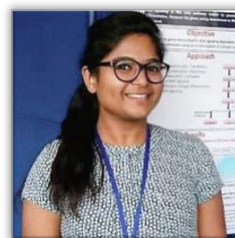
1. **Postgraduate Diploma in Patent Law** (2009 – 2010)
NALSAR, University of Hyderabad
Grade A
2. **Masters in Biotechnology** (2007 – 2008)
University of Queensland, Australia
(Specialization in Commercialization in Biotechnology)
Dean's Commendation for High Distinction
GPA 6.5/7.0
3. **BSc Honors in Biochemistry & Biotechnology** (2004 – 2007)
St. Xavier's University, Ahmedabad
Awarded Gold Medal and Richard Froehlich & Michael Klamut Fellowship
70%
4. **XIIth** (2002 – 2004)
Asia English School, Ahmedabad
75.8 %
5. **Xth** (2000 – 2002)
Mount Carmel School, Ahmedabad
82.7 %

Publications

1. ***Resource Document on Bioentrepreneurship Development.*** Biotech Consortium India Limited. (2018)
2. ***Women in Science: Dr Pinky Kain studies fruit flies to answer how 'taste' is processed by our brain.*** The Life of Science – Firstpost. (2018)
3. ***Trailblazers – Mapping the Journey of Young Bioentrepreneurs.*** The National Academy of Sciences, India. (2017)
4. ***Meeting Educational Needs through Course Correction – Remodeled Masters Biotechnology Course Curricula.*** Department of Biotechnology, Government of India. (2017)
5. ***Pursuit of Biotechnology: Opportunities & Options.*** Department of Biotechnology, Ministry of Science & Technology, Government of India. (2015)
6. ***Transition from Quantity to Quality: Biotechnology Post-Graduate Education.*** IndiaBioscience.org. (2015).

Aditi Kumar

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Work Experience

I have been working as Biotechnology Ignition Grant Program Manager at the business incubator of IIT Kanpur since July 2017 to date.

Educational Background

Year	Degree	Institution	CGPA/%
2017	M. Tech. Biological Sciences and Bioengg.	IIT Kanpur	8.67
2014	B. Tech (Hons.) Biotech	Lovely Professional University, jalandhar	9.01
2010	Senior School Certificate Examination	Amity International School, Noida (U.P)	86.80%
2008	Secondary School Examination	Holy Angels' Convent School, Muzaffarnagar (U.P)	95.80%

Awards and Honors

- Qualified Graduate Aptitude Test in Engineering (GATE) 2014 with All India Rank of 135
- Honoured by Chancellor's Roll of Honour for securing highest CGPA of 9.79 in first semester at Lovely Professional University(2011)
- Honoured by Mr. Abdul Kalam Azad in National Science Congress for the project "Heart of the matter" , Amity International School (2010)
- Awarded by CBSE for securing highest marks in Maths and English in High School, Holy Angels' Convent School (2008)
- Awarded General proficiency award for 4 consecutive years,Holy Angels' Convent School (2001-2005)