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An Awareness Talk on - PLANNING AND FUNDING BIO-ENTERPRISES With emphasis on Biotechnology Ignition Grant (BIRAC) -

Organized by Venture Center, Pune

Aim	• Bio-entrepreneurship support available for innovators and entrepreneurs • Learn about: o Biotechnology Ignition Grant (BIG) scheme by DBT-BIRAC: grant funding supporting proof-of-concept studies for life sciences based start-ups o Experience sharing from the previous BIG grantees o How to plan a scientific start-up
Organizers	• BioIncubator at Venture Center supported by Biotechnology Industry Research and Assistance Council (BIRAC), Govt. of India
Sponsors	• Biotechnology Industry Research and Assistance Council (BIRAC)
For whom	• Entrepreneurs and innovators • Scientists/ researchers • Academics/ lecturers • Students of science, engineering, pharmacy and Bio-medical
When	2nd Aug 2014, (Saturday) 10.00 am to 12.00 pm
Where	**Training Room** Venture Center,100, NCL Innovation Park, Dr Homi Bhabha Rd, Pashan, Pune – 411 008
Cost	Free but prior registration is required. Please register here : http://vcevents.pandaform.com/pub/xzyhwf/new

ABOUT THE EVENT

The primary aim of this event is to increase awareness around an important grant funding opportunity in the biotechnology and healthcare space, viz. the DBT-BIRAC Biotech Ignition Grant (BIG) scheme. The focus of this event is to provide background information on this grant, the application through funding process-flow, guidance on writing winning proposals, and an opportunity to interact with BIG grantees and learn from their experience.

DBT-BIRAC's Biotechnology Ignition Grant (BIG) scheme

BIG provides for high level of discovery and innovation in the Biotechnology sector to establish and validate proof of concept, and enable creation of spin-offs. BIG is a very attractive funding scheme for budding bio-entrepreneurs. It is offered as a grant to carry proof of concept and proof of concept validation activities. This is a great opportunity for innovators and entrepreneurs to begin building a start-up.

Broad domains allowed for BIG:

- Health care & medical biotech: Therapeutics, Biologicals, Vaccines & preventives, Diagnostics, Biomedical devices, Tissue engineering, Oncology etc
- Agriculture, food security, secondary agriculture and allied: Agro and plant biotech, Animal biotech, Marine biotech, medicinal and aromatic plants, Seri biotech, Biocontrol/biofertilizers, Food and nutrition, etc
- Industrial product and processes
- Green technology & industrial biotechnology: Biochemical engineering, Biomass value addition to fuels/ chemicals/ materials
- Others: Bio-IT interface, bioinformatics, Analytical methods and new techniques, etc
  Others falling in to DBT mandate

Participants would also get to learn about how to plan a scientific start-up.

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SCHEDULE

Time	Session title	Speaker
10.00 - 10.10	Registration	-
10.10 - 10.15	Introduction to Venture Center	Soma Chattopadhyay
10.15 - 10.45	• Planning a scientific start-up o Problem definition and opportunity identification o Technology solutions for the problem o IP strategy o Execution team o Financials Investment planning and critical to success factors	Dr Manisha Premnath
10.45 - 10.55	• Question & answer session	
10.55 – 11.05	• Networking & tea	
11.05 - 11.30	• About Biotechnology Ignition Grant: o Mentoring ▪ BIG process flow ▪ Purpose of BIG ▪ Eligibility ▪ Tips and pointers o Reviewing ▪ BIG review process	Pradnya Aradhye Uma Patil
11.30 - 12.00	• Moderated session: Tips from BIG grantees ▪ Module Innovations Pvt Ltd ▪ Actorius Innovations and Research Pvt. Ltd.: Khandare ▪ Jeevtronics Pvt. Ltd.	Moderator: Dr V Premnath Module Innovations Pvt Ltd: Mr Sachin Dubey & Mr Usman Khan Actorius Innovations and Research Pvt. Ltd. : Dr Jayant Khandare Jeevtronics Pvt. Ltd.: Mr Aniruddha Atre
	Conclude the session	-

ABOUT THE SPEAKERS

Pradnya Aradhye is currently Associate, Bioincubator, Venture Center. She has done her M.Tech in Biological Sciences and Bioengineering from IIT Kanpur. Her current interest lies in biotechnology, microbiology, molecular & cell biology, biotech commercialization, planning and setting up tech dev programs and labs etc. She has a PhD (Bio-technology), University of Pune Contribute to building scientific support systems and resources for VC incubates including specific expertise. Discussions with scientists to understand their competencies.

Soma Chattopadhyay is currently associated with Venture Center as Manager Incubator and Marketing. She has obtained her M.Sc in Physical Chemistry from Calcutta University followed by >9 years of experience in the R&D division of an MNC named Cookson Electronics where she was heading one of the reliability designing instrumentation laboratory. In her present role she is responsible for being the first point of contact for the enquirer, understanding their business and connecting them to the right resources. She is also responsible for the entire incubation process starting from enquiry to incubation of the entities and also for any support required beyond this. She is also managing some projects related to visibility and branding of Venture center.

Uma Patil is currently associated with Venture Center as an Associate Technology Marketing. She has done MBA in Biotechnology from DMS-PUMBA, PG Diploma in IPR Law & B.Sc in Biotechnology from University of Pune. Currently she is handling all the BIG review and monitoring related activities for Venture Center as BIG partner. She is also responsible for handling TREMAP related activities at Venture Center including technology scouting & mining, in-depth analysis of the technologies with a focus on market research, data analysis, IP search & techno commercial feasibility study.

Dr Manisha Premnath is the General Manager at Venture Center - a technology business incubator located on the campus of National Chemical Lab, Pune. At Venture Center, she manages a team of 25 that works closely with entrepreneurs and technologists to promote and support startups. She was responsible for setting up Venture Center's scientific facilities - a unique co share facility for tech entrepreneurs. More recently, she has led a team in developing the BIRAC BioIncubator at Venture Center. She is the Project Investigator responsible for the BIG Partner responsibilities at Venture Center. Dr Manisha Premnath holds a PhD in Biotechnology from University of Pune. She has had post doctoral experience at University of Cambridge, UK.

Dr V Premnath is currently the Head, NCL Innovations - the group within NCL charged with the responsibility of championing the cause of technology innovation within NCL. Dr Premnath is also the Founding Director of the Venture Center - a technology business incubator on NCL campus. Dr Premnath is also a Scientist, Polymer Science & Engineering Division at NCL with an interest in technology development for biomedical products. Dr. V. Premnath holds a B.Tech. from the Indian Institute of Technology - Bombay and a Ph.D. from the Massachusetts Institute of Technology, USA. He has also been a Chevening Technology Enterprise Fellow with the Centre for Scientific Enterprises, London Business School and Cambridge University, UK. He brings with him considerable experience in technology development and commercialization (two successfully commercialized families of products), working with start-up companies (in Cambridge-UK and India) and engaging with large corporations on research and consulting projects as project leader. More information at: www.premnath.org

ABOUT THE PANELISTS

Module Innovations Pvt Ltd:
A start-up envisaged by two first generation entrepreneurs Mr Sachin Dubey and Mr Usman Khan along with Dr Jyti Jog, aims at developing quick, colorimetric, portable and reusable biosensor based on nanofibers for E.coli O157:H7 sensing and detection. The start-up aims at providing innovative solutions to Indian market pegged at 500 million USD.

Sachin Dubey is a technology enthusiast and is dedicated to develop healthcare solutions for masses. Sachin cofounded Module Innovations, the idea for which was conceptualized while he was doing internship with Dr Jyoti Jog at NCL. Sachin was also an NCL Research Fellow at National Chemical laboratory. Sachin is an excellent team leader, who has led his team to win 2nd prize at ABLE- BEST 2012, in top 8 out of 6000 in EUREKA-2014, In top 6 at the LIVE B.Plan 2014 organized by Karnataka govt. and many more. Sachin holds a Bachelors and Masters degree in Nanotechnology, from the Centre for Converging technologies, University of Rajasthan, Jaipur. He serves as the CEO of Module Innovations.

Usman Khan is a passionate Biotechnologist, whose interest lies in culminating science and technology to bring out innovative products. Usman holds a bachelors and master's degree in Biotechnology, from CCT, Univeristy of Rajasthan. Usman has hands on experience in Plant Tissue Culture, Microbial Growth, Bionformatics Tools etc. He was also an NCL Research Fellow. Usman cofounded Module Innovations with Sachin Dubey and Dr. Jog and serves as the Chief Operations Officer

Actorius Innovations and Research Pvt. Ltd.
Actorius Innovations and Research Pvt Ltd (AIR) is a biomaterials research company based out of Pune, India. Incubated in the NCL Venture Center, Pune, the mission of Actorius Innovations and Research (AIR) is to develop novel biomaterials that will have critical applications in the areas of medical diagnostics, drug delivery and healthcare. AIR received the BIG funding from BIRAC to develop a novel platform to detect Circulating Tumor Cells (CTC) for early detection of cancer relapse

Dr Jayant Khandare is the Chief Scientific Officer (CSO) of Actorius Innovations and Research Pvt Ltd and is Professor at Maharashtra Institute of Pharmacy (Pune). Previously he established and led the Polymer Chemistry Group at Piramal Life Sciences. He has completed bachelors and masters in Pharmacy from University of Mumbai & holds Ph.D. in Chem. Eng. from National Chem. Lab., Pune, India. Post Ph.D., Jayant completed two postdoctoral tenures in the School of Medicine, Wayne State University, Detroit, MI, USA and the Dept. of Pharmaceutics, Rutgers, The State University, Piscataway, New Jersey, USA. He is a recipient of Alexander von Humboldt Experienced Researcher award and worked at Freie University, Berlin. Dr.Khandare has published more than 40 papers in peer reviewed journals, and has 11 US patents application to his credit. Khandare brings to the table an eclectic mix of knowledge in subjects as diverse as pharmaceutics, chemical engineering, polymer chemistry and molecular biology.

Jeevtronics Pvt. Ltd.	**Jeevtronics Pvt. Ltd.** is an Indo-USA joint venture that is expected to change the global markets for defibrillators. The leadership team has a combined experience of over 70 years with 16 patents and has delivered numerous products from concept to commercialization in the past. Jeevtronics aims to change paradigms in healthcare by making healthcare devices super reliable yet super affordable, stylish and smartly-connected. Jeevtronics is a BIG grantee and is currently developing World's first defibrillator (cardiac shock device) with a built-in power source, which will not require any battery changes and can be used in the remote un-electrified areas requiring emergency life saving cardiac services.

Mr Aniruddha Atre is Co-Founder and Director, Jeevtronics Pvt. LTD & Co-Founder BOPEEI PVT LTD. Aniruddha is an experienced social entrepreneur and an industry professional with over 15 years of experience across global automotive industry, renewable energy and computer aided design and analysis. A former student of Late Prof. C.K.Prahalad at the Ross School of Business (University of Michigan, Ann Arbor) he spent over a decade at Ford Motor Company in Dearborn and Chicago in the United States. During the tail end of his years in the automotive industry, Aniruddha decided to pursue his dreams in social entrepreneurship and co-founded BOPEEI in 2009 with Ashish Gawade. Together they invented the world's fastest charging Pedal Powered Generator as well as Solar powered lamps that don't need battery changes for upto 10 years. Aniruddha Atre also co-founded Jeevtronics in 2013, which is developing World's first Defibrillator with a built-in Power source, which does not need battery replacements and can be used in rural un-electrified area hospitals. For this product, Jeevtronics won the BIG grant from BIRAC and the Proof-of-concept work is currently underway.

ABOUT THE ORGANIZERS

VENTURE CENTER	Entrepreneurship Development Center (Venture Center) – a CSIR initiative – is a Section 25 company hosted by the National Chemical Laboratory, Pune. Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the Pune region in India. The Venture Center is a technology business incubator supported by the Department of Science & Technology's National Science & Technology Entrepreneurship Development Board (DST-NSTEDB). Venture Center's focuses on technology enterprises offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering. **For more information about Venture Center, visit www.venturecenter.co.in**
BioIncubator at Venture Center	BioIncubator at Venture Center was created with support from DBT-BIRAC under the Bioincubator Support Scheme. It has been conceptualized to help innovators in the spectrum of biomass, bioengineering, bio informatics, biomed and agro based industries to ease their enterprises into the ecosystem. Along with infrastructural support in the form of biosciences labs and office spaces, the BioIncubator also provides advisory services, referrals, scientific support, library and information services, Intellectual property services, seed funding and access to talks, workshops and technical training programs. **For more information about BioIncubator at Venture Center, visit www.bioincubator.venturecenter.co.in**

ABOUT THE SPONSORER

birac Ignite Innovate incubate	Biotechnology Industry Research & Assistance Council is a new industry□academia interface and implements its mandate through a wide range of impact initiatives, be it providing access to risk capital through targeted funding, technology transfer, IP management and handholding schemes that help bring **innovation excellence** to the biotech firms and make them globally competitive. **For more information about BIRAC: www.birac.nic.in**