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The **7th** lecture of the
Innovation and Technology Enterprise
Lecture Series

Connecting Molecules to Human Health: Opportunities and Challenges for Start-ups in the For-Profit and Non- Profit Worlds

by

Prof Chaitan Khosla

Professor in the Departments of Chemistry and Chemical
Engineering at **Stanford University**, and
Director of Stanford ChEM-H;

Co-Founder, Kosan Biosciences
Co-Founder, Alvine Pharmaceuticals
Co-Founder, Flamentera AG
Co-Founder, Sitari Pharmaceuticals
Founding President, Celiac Sprue Research Foundation.

on

Thursday, 17 December 2015

at **1600-1730 hrs** in the
NCL Auditorium
CSIR-National Chemical Laboratory
Pashan Road, Pune - 411008

Lecture is open to all.

Pre-registration by visitors to NCL is requested at

<http://goo.gl/forms/DMgCehiF9n>

Visitors to NCL should carry photo ID card.

First-come-first-serve seating.

Tea shall be served at 1530 hrs at the Auditorium Foyer

Prof Chaitan Khosla



Abstract: Long life-cycles, large capital requirements, and high risk profiles are the hallmarks of most research programs that seek to translate molecular knowledge and technology into healthcare advances. In this lecture, I will draw upon experiences from seven different for-profit and non-profit start-ups to highlight the opportunities and challenges that lie ahead of us, as we leverage molecular medicine to live longer, healthier lives while at the same time addressing the societal challenge of exploding healthcare costs.

About the speaker: CHAITAN KHOSLA (Professor in the Departments of Chemistry and Chemical Engineering at Stanford University, and Director of Stanford ChEM-H) received his PhD in 1990 at Caltech. He earned his B.Tech in Chemical Engineering from Indian Institute of Technology Bombay in 1985. After completing postdoctoral studies at the John Innes Centre in the UK, he joined Stanford University in 1992.

His research on polyketide synthases opened the door to fundamentally new approaches for engineering of antibiotics. More recently, he has also investigated celiac sprue pathogenesis with the goal of developing therapies for this widespread but overlooked disease. He has co-authored over 300 peer-reviewed publications and 75 issued U.S. patents, and is the recipient of several awards and honors including the Eli Lilly Award in Biological Chemistry and the Pure Chemistry Award from the American Chemical Society; the Allan P. Colburn Award and the Professional Progress Award from the American Institute of Chemical Engineers; and the Alan T. Waterman Award from the National Science Foundation. He is an elected member of the American Academy for Arts and Science and the National Academy of Engineering.

Over the past two decades, he has co-founded four biotechnology companies (Kosan Biosciences (KOSN), Alvine Pharmaceuticals, Flamentera AG, Sitari Pharmaceuticals), and was the founding President of the non-profit Celiac Sprue Research Foundation.

About the lecture series: The Innovation and Technology Enterprise Lecture Series aims to present exemplary cases of research-based innovation translated into business ventures - the associated ideas, the people and the experiences - in order to inspire, energize and inform Indian scientists, technologists and business people. Site:

<http://www.innovationpark.org/innovation.php>