



Director
and the staff of the

CSIR-Centre for Cellular and Molecular Biology

Hyderabad

cordially invite you to

The 34th Foundation Day Lecture

by

Dr. Shekhar C. Mande

Secretary, DSIR and Director General,
Council of Scientific & Industrial Research, New Delhi

on

Big Data Analytics: Waiting to be tapped by Life Sciences

at 4.00 P.M. on Friday, 26th November 2021

Venue:

Auditorium of the
CSIR-Indian Institute of Chemical Technology (IICT)
Uppal Road, Hyderabad 500007

Please be in your seat by 3.15 P.M.

About the Speaker



Dr. Shekhar C. Mande

Secretary, DSIR and Director General,
Council of Scientific & Industrial Research
New Delhi

Dr Shekhar Mande is the Director-General of Council of Scientific and Industrial Research (CSIR). He has previously been the Director of National Centre for Cell Sciences, Pune and a successful scientist at the Centre for DNA Fingerprinting and Diagnostics, Hyderabad and CSIR-Institute of Microbial Technology, Chandigarh.

Dr Mande specializes in studying protein structures and functions, particularly to understand the biology of Mycobacterium tuberculosis. His research interests include applications of graph theory to large scale protein interaction networks and computational methods to analyze large-scale biological data. In recent times, he has steered CSIR labs towards mitigating COVID-19 in India through many angles. This includes diagnostics, surveillance, drugs and therapeutic development, PPE and device manufacturing and supply chain and logistics.

Dr Mande is a fellow of all the prestigious science academies of India. He has been bestowed with the HK Firodia Award in 2020, Shanti Swarup Bhatnagar Award in 2005 among many others.

Abstract of the talk: The explosion of data in various spheres of human endeavours has in recent times led to exciting developments in data analytics. Data related to interaction among people on social networks, credit card transactions, youtube videos typically exemplify the big data. However, Life Sciences have equally been confronted by big data- that is made available by large scale population studies, genomics, healthcare records, environmental data etc. Newer methods including Machine Learning are now increasingly being used in the analysis of such data. Prediction of protein folding using Google's AlphaFold is one such recent exciting development. He will present his own computational work in the perspective of big data analytics, and propose roadmap for Life Sciences researchers in India.

PROGRAMME

Friday, 26th November, 2021

3.00 P.M.	Tea / Coffee	Shantiniketan, CCMB
3.30 P.M.	Welcome and overview	Dr Vinay K Nandicoori
4.00 P.M.	Foundation Day Lecture	Dr Shekhar C. Mande
5.30 P.M.	High Tea	
6.00 P.M.	Flute Performance by Pandit Ronu Majumdar	
8.00 P.M.	Dinner	