



Telangana Academy of Sciences

Cordially invites you to the



8th Dr. Manohar V.N. Shirodkar

Memorial Lecture

Endowment Instituted by

Smt. Rajkumari Indira Devi Dhanarajgiri

To be delivered by

Prof. Virginijus Siksny

(Institute of Biotechnology, Vilnius University, Vilnius, Lithuania)

on

"CRISPR-Cas: from bacterial immunity to genome editing tools"

at 4.00 PM, on Friday the 24th January 2020

Venue:

Auditorium

CSIR-Indian Institute of Chemical Technology

Uppal Road, Hyderabad

Prof. K. Narasimha Reddy
President, TAS

Dr. S. Chandrasekhar
Hon. Secretary, TAS

Dr. Ch. Mohan Rao
Chairman, SAC, TAS



Prof. Virginijus Siksny

Professor Virginijus Siksny is one of the pioneers of CRISPR-CAS technology. His studies on the Cas9 protein paved the way for the development of this major gene-editing technology. Prof. Siksny was awarded the Kavli Prize (2018) *"for the invention of CRISPR-Cas9, a precise nanotool for editing DNA, causing a revolution in biology, agriculture and medicine"*. The award was shared with Emmanuelle Charpentier and Jennifer Doudna.

Prof. Siksny combines molecular biological and biophysical techniques to investigate bacterial anti-viral defense mechanisms. He, along with his colleagues, has contributed nearly one-third of structures of restriction enzymes that are available at PDB. As part of these efforts, he started investigating CAS9 that led to seminal contributions to the CRISPR-CAS technology. His studies demonstrated that Cas9 could be reprogrammed with custom-designed spacers in the CRISPR array to direct it to any desired site in the genome.

Prof. Siksny studied chemistry at the Vilnius University and obtained his Ph.D from the Moscow State University. He subsequently moved to Vilnius University where he holds the position of Professor and is Chief scientist / Department head at the Institute of Biotechnology of Vilnius University. His work has been recognized with several awards including the Lithuania National Science Prize, Warren Alpert Prize (2016) and Novozymes Prize (2017) and Kavli Prize (2018). He is a member of the Lithuania Academy of Sciences.

Programme

24th January, 2020

4.00 PM

Welcome	:	Dr. S. Chandrasekhar, Director, IICT, Hon. Secretary, TAS
Dr. Manohar V.N. Shirodkar : A Profile	:	Dr. Sesikeran, Former Director, NIN
Presidential Remarks	:	Prof. K. Narasimha Reddy, Former VC, MG University, President, TAS
Introducing the Speaker	:	Dr. Ch. Mohan Rao, CSIR-Distinguished Scientist, Former President, TAS
Dr. M.V.N. Shirodkar Memorial Lecture	:	Prof. Virginijus Siksny, Vilnius University, Lithuania
Brief Remarks by	:	Smt. Rajkumari Indira Devi Dhanarajgiri
Vote of Thanks	:	Dr. Y. Purushotham, Hon. Treasurer, TAS

* Please be in your seat by 3.45 PM

Programme overleaf