



Pune Knowledge Cluster presents

Title: Introduction to Clinical Genomics

Organised By	Pune Knowledge Cluster (PKC)
Date	25th January 2023
Time	5:00 to 6:00 pm (IST)
Location	Online: on Zoom Platform
Description of the talk series	PKC's Health talk series aims to promote active discussions on mapping, tracking, mitigation, diagnostics and understanding the impact of diseases at a city level. The series hosts talks, stakeholder meetings, and workshops to highlight health issues that plague the city and potential measures for their mitigation. It will also showcase research and clinical and technological advances in the healthcare ecosystem.
Abstract	Several diseases, including cancer, are caused by genomic mutations. Identifying the causative mutation requires sequencing the genome and then analysing the data that results. What follows is often confounding in various ways, as this talk will illustrate with real examples--infants who pass away mysteriously, siblings with misplaced organs, sisters whose heart fails in their 20s, an infant whose blood can't carry enough oxygen, and my own colour blindness. Some of these stories are captured in my book Genomic Quirks. The talk will also touch on how genomic screening can benefit adults.
For whom (Target Audience)	BSc, MSc, physicians, Academics, Researchers, Life sciences etc
Potential Gains	The speaker will provide his expertise on the interplay between computer science, biology and medicine to further genomics research and build genomics applications for disease diagnosis and treatment that will benefit the community.

Profiles of Speaker



Dr Ramesh Hariharan
Co-founder and
CEO-Strand Life Sciences

Dr. Ramesh Hariharan is the co-founder and CEO of Strand Life Sciences (<https://strandls.com/>) and an Adjunct Professor at the Indian Institute of Science (IISc), Bangalore. Before founding Strand, Dr. Ramesh was at IIT Delhi, New York University, the Max Planck Institute and IISc. Dr. Ramesh is a recipient of the TR100 Award of Young Innovators by MIT's Technology Review Magazine. He also received the Global Indus Technovator Award from MIT, which was instituted to recognize the Top 20 Indian Technology Innovators worldwide in 2003. At Strand, Dr. Ramesh leads teams that work on the interplay between computer science, biology and medicine to further genomics research and to build genomics applications for disease diagnosis and treatment.

About the Organizer



The Pune Knowledge Cluster (PKC) has been established by the Office of the Principal Scientific Adviser to the Government of India. It aims to bring together academia, R&D institutions, and the industry of Pune and its surrounding areas to address the challenging problems of the region through innovative means, using scientific knowledge and engaging highly skilled human resources.

PKC is administered by the Inter-University Centre for Astronomy and Astrophysics (IUCAA). In the initial phase, PKC would focus on Health, Sustainability and Environment, Sustainable Mobility, BIG Data and AI and Capacity Building.

For more information, visit: <https://www.pkc.org.in/>