



PUNE KNOWLEDGE CLUSTER & INDIAN ACADEMY OF SCIENCES PRESENT INDIA S&T @ 75
LECTURE SERIES

Title: Statistical Search for a Genetic Connection Between Tobacco & Oral Cancer

Organized By	Pune Knowledge Cluster (PKC)
Date	19 th June 2022
Time	11:00 AM - 12: 30 PM
Abstract	<p>The Discovery of BRCA 1 and 2 genes which make a female prone to breast cancer is a well-known story. Angelina Jolie, a Hollywood superstar, made it to the cover of Time magazine because of it. Dr. Dhananjaya Saranath, an expert on cancer genetics, based in Mumbai, has devoted an enormous amount of effort and resources to generate data hoping for a similar discovery in the case of oral cancer among Indians who chew tobacco. She gathered data on 1000 habitual tobacco chewers (half suffering from oral cancer and the other half free from it) and examined a set of genes that according to her intuition, are likely candidates for genes responsible for oral cancer. The basic idea is to contrast oral cancer positive and negative groups in terms of their genetics. The lecture describes various steps in the statistical analysis of these data leading to a strong suggestion that a single gene or possibly a small group of genes may be responsible for oral cancer. Methods of analysis are elementary.</p>
Open to all	It's public talk. Open to all
Potential Gains	<p>As a part of the "India S&T @75" events during the countdown to the 75th year of India's independence, the Pune Knowledge Cluster will be organising a number of lectures on scientific topics. These lectures will be delivered by Fellows and Associates of the Indian Academy of Sciences, who are based in Pune, and will be organised in association with the Academy. The lectures will cover a wide variety of topics, ranging from cutting edge science and technology to developments in these areas in the country over the 75 years since independence.</p>
Speaker	Prof. Anil Gore, Fellow, Indian Academy of Sciences



Profiles of Speaker



Brief information about the speaker

Dr. Anil Purushottam Gore had done a Ph.D. from Kentucky. He was elected into the fellowship in 1997 under the Animal Sciences section. His specialization is in the area - Analysis of Clinical Trials, Non-parametric Inference, and Statistical Ecology.

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/>