



# Centre for Biosystems Science and Engineering

# SEMINAR

at 03:00 PM on April 17, 2017

Centre for Ecological Sciences, Seminar Hall

## Opportunities and challenges in genomics-based healthcare in India

**Dr. Nikhil Phadke**

**Founder and Chief Scientific Officer, GenePath Dx**

Dr. Nikhil Phadke will share his experience with molecular diagnostic startups in the US and India, highlighting the successes and challenges along the journey, and emphasizing the importance of tight co-ordination between cross-disciplinary teams. He will also speak about how GenePath Dx offers a platform for science and technology development hand in hand with the ability to impact individual patient care on a routine basis. Finally, he will discuss the facilities and projects being initiated at GenePath Dx with a view to exploring collaborations between researchers and faculty at various organizations.

GenePath Dx is a next generation diagnostics organization that provides state-of-the-art in vitro diagnostic techniques such as molecular diagnostics to the healthcare and allied communities. The company has a large portfolio of molecular tests (nearly 300), many of which have been designed, developed and validated in-house, across medical disciplines including infectious diseases, oncology (solid tumors), haematology and haemato-oncology, paediatrics and endocrinology, nephrology, musculo-skeletal disorders, rare genetic diseases, transplantation typing, pharmacogenetics, and pre-natal and pre-implantation genetic diagnostics. The organization has well equipped laboratory in the heart of Pune which includes conventional and next generation sequencers and a microarray platform.

### About the speaker:

Dr. Nikhil Phadke has over fifteen years of experience in the fields of Molecular Diagnostics, Molecular Genetics and Genomics, Proteomics and Bioinformatics. Nikhil was a core team member at HandyLab, a highly successful microfluidics based molecular diagnostics startup in Ann Arbor, Michigan, USA that was subsequently acquired by Becton Dickinson (BD). He founded GenePath Dx with a view to bringing state-of-the-art in vitro diagnostic tools to the Indian medical community. He has several publications in international peer-reviewed journals and also has a number of granted US patents and submitted patent applications. Nikhil obtained his PhD in Molecular, Cellular and Developmental Biology from the University of Michigan, Ann Arbor.