DukeNUS Medical School | Cancer & Stem Cell Biology

CSCB Hybrid Seminar Series

Genomic characterization of gastric cancer for targeted therapeutics

Date: 10 Oct 2022 (Monday)
Time: 12noon – 1pm (SGT)
Venue: Duke-NUS Amphitheatre, Level 2

Format : *via* **Zoom & in-person**
https://nus-sg.zoom.us/j/84618511449?pwd=QWIrUjU4NEZIdEFzaHRiM0wxRmpzQT09
Meeting ID: 846 1851 1449
Passcode: 147437

Abstract:

Defining targetable subtypes within cancers is necessary to achieve successful therapeutic outcomes. Our research is working towards defining genomic-guided novel subtypes and identifying drug combinations for different cancer subtypes. By exploring genome-wide expression profiles of cancerous cells, in-vitro profiling of transcription factors, and gene-set-based analysis of activation patterns of cellular processes in tumors, we are able to delineate the contrasting molecular processes involved in cancer subtypes. Our recent investigations reveal the possibility of genome-guided classification of gastric cancers into multiple subtypes. This integrative genomics-guided unorthodox tumor classification shows significant clinical value from a therapeutics perspective. In addition, the parallel development of signaling pathway-specific drug-screening assays and large-scale repurpose screenings reveal potential leads for developing targeted therapeutics. The approaches and the generated data will be discussed in the seminar, emphasizing the potential to transform the modalities of cancer treatment and improve cancer patient outcomes.



Speaker:

Prof. G. Kumaresan
Professor & Head
Dept. of Genetics, Unit of Excellence in Cancer Genetics
Centre for Excellence in Genomic Sciences
School of Biological Sciences, Madurai Kamaraj University, India

Dr. Kumaresan is the Principal Investigator of the Cancer Genomics Laboratory and working towards delineating the molecular cellular dysregulations in subsets of cancers. His work demonstrates the possibility of classifying gastric tumors into an array of genomic subtypes with the knowledge of dysregulated signaling pathways. He is also working towards associating the different cancer subtypes with drug treatments. He also heads the Ancient Genomics group exploring the population genetics of ancient civilization of 2500- 3500 years old.

Host:
Patrick Tan
Professor
Programme in Cancer & Stem Cell Biology
Duke-NUS Medical School
Singapore

No registration is required.
All are welcome.
Any enquiries, please contact:
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