HONG KONG RNA CLUB
Seminar

22 Mar 2018 (Thurs) / 3:30-5:00pm
B2531, Yeung Kin Man Academic Building (AC1)
City University of Hong Kong

CityU
香港城市大學
City University of Hong Kong

Guest Speakers:

Mr. Kyle Wang (QIAGEN)
Market Development Manager,
Marketing LS & AT

Mr. Henry Wang (QIAGEN)
Key Account Manager,
Marketing & Market Development APEC

Sample to Insight:
Advanced RNA Technology for
NGS and Bioinformatics

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Enabling complete transcriptome sequencing

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Contact: hkrnaclub@gmail.com

Title:
Sample to Insight:
Advanced RNA Technology for Next-Generation Sequencing (NGS) and Bioinformatics

Speaker:
Mr. Kyle Wang
Market Development Manager, Marketing LS & AT

Mr. Henry Wang
Key Account Manager, Marketing & Market Development APEC

Abstract:
Understanding the RNA universe within a biological specimen is key to unlock gene expression and regulation mechanisms. However, RNA is a challenging analyte which requires the researcher to take special care at every step of the workflow from sample collection to results interpretation to not introduce any bias and obtain accurate results. This seminar will guide through the different "Sample to Insight" workflow steps from sample preparation to analysis. A special focus will be given to NGS technology and comprehensive bioinformatics tools for the journey of RNA discovery. RNA library prep kits for different types of RNA, targeted enrichment panels for scanning RNA from different types of samples, and the comprehensive Ingenuity Pathway Analysis software will be highlighted.

Ingenuity® Pathway Analysis (IPA®) is a powerful analysis and search tool that uncovers the significance of 'omics data and identifies new targets or candidate biomarkers within the context of biological systems. IPA has broadly been adopted by the life science research community and is cited in thousands of articles for the analysis, integration, and interpretation of data derived from 'omics experiments, such as RNA-seq, small RNA-seq, microarrays including miRNA and SNP, metabolomics, proteomics, and small scale experiments.

Data analysis and interpretation with IPA builds on the comprehensive, manually curated content of the Ingenuity Knowledge Base to help scientists understand the biological context of their expression analysis experiments. Powerful algorithms combined with content provide unique advanced analysis capabilities to help you identify the most significant pathways and discover potential novel regulatory networks and causal relationships associated with your experimental data.