

SEMINAR (Virtual)



Professor Kevin White

President and CSO, Tempus Labs
Toh Chin Chye Visiting Professor,
Molecular Biology and Medicine,
National University of Singapore

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Time 9:00am (GMT+8)

Chaired By Prof Markus Wenk



SCAN ME

From Big Data to Molecular Mechanism: Building a Framework for Precision Medicine

Over the last decade, there has been a confluence of technological advances in the computational and biological sciences that set the stage for large-scale improvements in how cancers and other complex diseases are diagnosed and treated, leading to a new vision for advancing precision medicine. As part of this vision, we have taken steps to develop technological solutions and novel approaches to the challenge of integrating massive datasets and validating discoveries. In this context, I will describe a series of proof-of-principle projects that our team has made to highlight basic discoveries and applications in cancer diagnostics and therapeutics, as well as touching on other areas of precision medicine. With these and many other efforts as a backdrop for what can be done, I will also describe our recent efforts at Tempus Labs to engineer and industrialize a systematic solution that is allowing physicians to treat patients enabled by a real-time learning system that condenses petabytes of data into actionable information matched uniquely to each patient.

