

## Molecular Phenomics Approaches in Personalized and Public Healthcare

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### Abstract

With the advancement in the system-wide molecular phenomics, we are able to provide new information to inform patient stratification, diagnostics and prognostics by applying multi-omics approaches and phenotyping the patient journey, that is measuring an integrated set of physical, chemical, physiological and clinical features that define the individuality. We are doing molecular phenomics on diseases like cancer, neurological disease, gastrointestinal disease, cardiovascular disease, diabetes, obesity, hepatic disease and renal disease. This emerging approach not only improves clinical decision-making and patient management, but also has a dramatic impact in the development of precision medicine, drug discovery and synthetic biology.

Prof Nicholson is the forerunner in metabolomics, the Father of Metabolomics. With his work, he has received numerous honors and awards including the Honorary Albert Einstein Professorship of the Chinese Academy of Sciences, Gold Medal for Analytical Chemistry of The Royal Society of Chemistry, Pfizer Global Prize for Chemistry, etc.

~ ALL ARE WELCOME ~