



DNA Encoded Library Technology & Applications in Drug Discovery

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FACILITATOR	: Prof. LYU Aiping

Abstract

Innovative drug discovery research activities are known for big investment, high risk and long development time as well as facing other challenges. Lead generation is the starting point and one of the most important steps during the early phase of drug discovery R&D, which requires large compound library and advanced screening technology and can only be accomplished by some major international pharmaceutical companies with abundance of capital and cutting-edge technology. The emergence of vast DNA Encoded Library has gradually filled the gap in this field and decreased the technological barriers in the hit identification. As the integration of Combinatorial Chemistry and High Throughput Sequencing, it not only increases small molecule library for screening to 100Mn even 10Bn, but also makes compound screening more convenient and effective. The efficient application of DNA Encoded Library is emerging as an important tool in the drug discovery and become a really important source for innovative drug discovery. This talk will focus on designing large encoded libraries with improved properties and its applications in innovative drug discovery.

Speaker

Dr Li holds 28 years biopharmaceutical experience (at Protherics and AstraZeneca), with senior scientific and leadership roles in early stage research; as well as experience in initiating and leading major research collaboration and outsourcing programmes. Before founding HitGen, he held Global Director positions of Compound Sciences and Computational Sciences at AstraZeneca. This included responsibility for computational chemistry, computational biology and compound collection enhancement. Dr Li completed his BSc at Sichuan University, and PhD in macromolecular sciences at Aston University. He then completed post-doctoral research in theoretical biochemistry at Manchester University, UK. Dr Li is also a Fellow of the Royal Society of Chemistry and the Guest Professor of Sichuan University. He and his team have gained many rewards from different levels.

****All are Welcome****