

ConBio2017



タカラバイオ ランチョンセミナー

演題: **SMARTer NGS solutions: Product overviews and applications on Single-Cell Automation System**

演者: Suvarna Gandlur, PhD (Takara Bio USA, Inc.)

日時| 12月6日(水)11:45 - 12:45

会場| 第14会場(神戸国際会議場 国際会議室)



Experimental approaches involving next generation sequencing (NGS) have led to significant advancements in numerous research areas—for example, developmental biology and neuroscience—and are increasingly being applied towards the development of diagnostics and novel treatments for human disease. As the use of NGS advances in clinical and applied spaces, parallel processing of large numbers of samples including single cells will be critical. Takara Bio provides a powerful toolbox for performing whole-transcriptome analysis with single-cell RNA sequencing (SMART-Seq® v4, SMART-Seq HT, and SMART-Seq v4 3' DE), and for specific applications such as single-cell TCR repertoire profiling. Automation allows for scalability and simplification of single-cell library preparation. The SMARTer™ ICELL8™ microfluidic system enables the rapid isolation and selection of single cells, and generation of libraries from selected cells using SMART-Seq chemistry. We will present product overviews and recent developments involving our single-cell NGS portfolio and applications on the SMARTer ICELL8 Single-Cell Automation System.

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