

## **SOLiD™ High Throughput Sequencing: Chemistry and Applications.**

Sheila Gregório Purim, PhD<sup>1</sup>

<sup>1</sup>Applied Biosystems do Brasil - Av do Café, 277, 1º andar, Torre A, São Paulo, SP, Brazil

### **Abstract**

The talk will entail a description of the chemistry (DNA fragmentation, Emulsion PCR, Ligation-based Sequencing) involved in library preparation and sequencing on the SOLiD™ High Throughput Platform, that is currently achieving a throughput of 17Gb per run. Following the chemistry, there will be an explanation on the 2-base encoding system, and the Applications and Results that can be developed with this technology.