

JOINT EVENT

9<sup>th</sup> International Conference and Expo on

# Proteomics and Molecular Medicine

9<sup>th</sup> International Conference on

&

# Bioinformatics

November 13-15, 2017 Paris, France

## From genomics to personalized healthcare

**Kathy Tzeng**

Optum (UnitedHealth Group), USA

With the advent of Next Generation Sequencing (NGS) technologies that have significantly reduced the cost and time required to sequence human genomes, personalized healthcare is becoming a reality. Genomic information is increasingly an important determinant of clinical diagnosis and treatment. A bioinformatics challenge central to personalized healthcare is to identify the associations between genotypic and clinical observations and to improve treatment outcomes by associating patients with known genomic specific treatments. Several analytics approaches and reference architecture to support high velocity software and large volume of unstructured data will be discussed.

### Biography

Kathy Tzeng, PhD is a Distinguished Engineer in the Advanced Applied Technology team at Optum, with a focus on Genomics and Deep Learning. Prior to joining Optum, she was IBM's worldwide Technical Team Lead for Healthcare and Life Science in the Systems group. Before joining IBM, she worked in Boehringer Ingelheim Pharmaceuticals, where she led several drug discovery projects in the area of Bioinformatics, Proteomics and Genomics. She received her PhD in Genetics from Iowa State University.

kathy.tzeng@optum.com

### Notes: