South San Francisco Conference Center
Thursday 22 May 2014
8:00am - 6:30pm

http://personalizedmedicine.sfsu.edu

A San Francisco State University Biology Conference
Personalized Medicine at San Francisco State University

A star-studded cast of biotechnology, investment, academic, diagnostic, nonprofit and corporate research leaders share their perspectives on how the evolving landscape of Personalized Medicine is changing medical care and preventive medicine.

The Time is Now

Hosted by the Department of Biology, the conference drew more than 140 scientists, health professionals, educators, journalists, alumni and students for each of the past six years.

The advent of low-cost sequencing of the human genome will revolutionize our understanding of health and disease. Personalized medicine seeks to use genetic variation to develop new diagnostic tests and treatments and to identify the sub-groups of patients for whom they will work best. Personalized medicine can also help determine which groups of patients are more prone to developing some diseases and, ideally, help with the selection of lifestyle changes and/or treatments that can delay onset of disease or reduce its impact. Personalized medicine is poised to transform healthcare over the next several decades, offering the possibility of improved health outcomes and making healthcare more cost-effective. With the price of sequencing a complete genome falling into the $1,000 range, stunning advances are sure to come over the next few years. It is likely that a detailed genome sequence will soon be part of a routine medical history, allowing unprecedented precision in diagnosis and treatment. The DNA and RNA signatures of both complex, common diseases and rare, elusive conditions will yield their secrets. This year, our conference focuses yet another dimension in individuality. There are ten times as many microbes as there are human cells in an individual, and this microbiome varies not only from one individual to another, but from one day to the next. And the composition of the microbiome influences every aspect of health, disease, disease prevention, and response to therapy. Join us for an incredible journey into the human microbiome and its profound implications for personalized medicine.

South San Francisco Conference Center
Conference Program At-A-Glance

8:00-8:50 Breakfast

8:50-9:00 Opening Remarks:
**Michael A. Goldman**, Ph.D., Chair, Department of Biology at SF State

9:00-9:40 Opening Keynote Speaker:
**David W. Martin**, M.D., CEO, AvidBiotics
*The Microbiome: Pleading for Precision Drugs for Bad Bugs*

9:40-10:30 Keynote Speaker:
**Abizar Lakdawalla**, Ph.D., Associate Director, New Sequencing Technologies, Illumina Life Sciences Group
*The Microbiome: Methodological Challenges & Opportunities*

10:30-11:00 Break

11:00-11:05 Remarks:
**Sue V. Rosser**, Ph.D., University Provost & Vice President for Academic Affairs, SF State

11:05-11:45 Keynote Speaker:
**Susan Lynch**, Ph.D., Professor of Medicine & Gastroenterology, UCSF
*Cataloguing the Microbiome*

11:45-12:25 Keynote Speaker:
**Konstantinos Mavrommatis**, Ph.D., Sr. Bioinformatics Scientist, Celgene
*Cancer Therapeutics and the Microbiome*

12:25-1:20 Lunch

1:20 – 1:25 Remarks:
**Sheldon Axler**, Ph.D., Dean, College of Science & Engineering, SF State

1:25 - 2:05 Keynote Speaker:
**Jessica Richman**, Co-Founder, uBiome
*The Microbiome as a Window into Human Health*

2:05 - 2:45 Keynote Speaker:
**Mohan S. Iyer**, Chief Business Officer, Second Genome, Inc.
*The Microbiome in Complex Disease: At the tipping point*

2:45 - 3:15 Break

3:15 - 4:15 Panel Discussion:
*The Microbiome in Clinical & Preventive Medicine*
 Moderator: **Mohan S. Iyer**, Chief Business Officer, Second Genome, Inc.

**William King**, Ph.D., Microbiology Group Manager, Clorox Research & Development
**Abizar Lakdawalla**, Ph.D., Associate Director, New Sequencing Technologies, Illumina Life Sciences Group
**David W. Martin**, M.D., CEO, AvidBiotics
**Jackie Papkoff**, Ph.D., Vice President, Immunology, Janssen Pharmaceutical Companies/Johnson & Johnson
**Jessica Richman**, Co-Founder, uBiome

4:15-5:00 Closing Keynote Speaker:
**Stanley Maloy**, Ph.D., Dean, College of Sciences, San Diego State University
*The Envirome and Precision Medicine*

5:00-5:10 Closing Remarks:
**Kevin Mullin**, California Assembly member & Chair, Select Committee on Biotechnology
**Michael A. Goldman**, Ph.D., Chair, Department of Biology at SF State

5:10-6:30 Reception & Poster Competition
Conference Organizing Team:

Arlene Essex
Fiscal Analyst
SF State College of Science & Engineering

Michael A. Goldman, Ph.D.
Professor & Chair
SF State Department of Biology

Helen Jenkins
Senior Vice President,
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Ken Hitchner
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Sally G. Pasion, Ph.D.
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Amy Waterhouse
Senior Advisor,
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BioMarin Pharmaceutical Inc.

John Wulf
Principal
New Frontier Life Sciences Consulting

Watch for
Personalized Medicine 8.0 in 2015!

Visit our web site or contact us for information about the conference or to be a sponsor.

http://personalizedmedicine.sfsu.edu
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