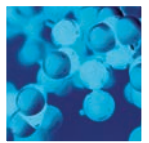


||||| Seeking



Biomarkers

of Aging and Diseases of Aging

F I N A L P R O G R A M

An American Federation for Aging Research Conference

October 2, 2007

**The University Club
New York, NY**

American Federation for  **Aging** Research

Organizing Committee

- Momy J. de Leon, EdD, New York University School of Medicine; Nathan S. Kline Institute
- George M. Martin, MD, University of Washington School of Medicine
- Norman R. Relkin, MD, PhD, The New York Presbyterian Hospital – Weill Cornell Medical Center
- Donald A. Snider, PhD
- Richard L. Sprott, PhD, The Ellison Medical Foundation
- Jean-Luc Vanderheyden, PhD, GE Healthcare

Aging is a complex biological phenomenon with multiple causes and complex, varied consequences. In an aging society, as almost all societies in the world are today, the processes and consequences of aging are enormously important. This importance, together with individual concerns about personal aging, drives the great demand for interventions in the aging process that could slow the progress of aging and prevent age-related disease.

Effective interventions require biological measures (biomarkers) of aging or disease mechanisms that anticipate clinical disease and are sensitive to functional organism aging.

The goals of this symposium are to assess the existing biomarkers available and explore the kinds of biomarkers needed to provide improvements to the human condition by alleviating disease and extending healthy lifespan. This one-day scientific conference will focus on current and future status of biomarkers as identifiers of rates of biological aging, predictors of longevity and predictors of susceptibility to disease. The conference will explore opportunities for collaborations with industry to develop more useful biomarkers (through proteomics, genomics and metabolomics technologies) and effective interventions that could ultimately identify (in the pre-symptomatic stage), treat and track age-related diseases and disorders.

We gratefully acknowledge the support of our sponsors. Educational grants were provided by:

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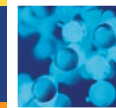
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This meeting was also supported by the National Institute on Aging, National Institutes of Health.



Tuesday, October 2, 2007 — 7:30 am – 4:45 pm

7:30-8:30 am	Registration and Continental Breakfast College Hall, 1st floor
8:30 – 8:45 am	Welcome and Introduction George M. Martin, MD, University of Washington School of Medicine and Scientific Director, American Federation for Aging Research
8:45 – 11:35 am	SESSION I Biomarkers of Aging at the Threshold of Opportunity Moderator: Terrie Fox Wetle, PhD, Brown University and President, American Federation for Aging Research
8:45 – 9:05 am	Biomarkers of Aging: Overview of Biomarker Research Richard L. Sprott, PhD, The Ellison Medical Foundation
9:05 – 9:35 am	Drosophila Biomarkers: Research Findings and Opportunities for Research and Collaboration Stephen L. Helfand, MD, Brown University
9:35 – 10:05 am	How Long Will My Mouse Live? Predictors and Biomarkers of Aging Richard A. Miller, MD, PhD, University of Michigan
10:05 – 10:35 am	The National Institute on Aging Biomarker Program: What We Did and Didn't Learn Gerald McClearn, PhD, Penn State University
10:35 – 11:05 am	Dietary Restriction and Aging in Rhesus Monkeys: The University of Wisconsin Study Richard Weindruch, PhD, University of Wisconsin
11:05 – 11:35 am	The NIA Primate Study: Efforts to Develop Biomarkers of Aging Donald K. Ingram, PhD, Pennington Biomedical Research Center/Louisiana State University
11:35 – 12:00 pm	Question and Answer



Acknowledgement of Winners:

AFAR-GE Healthcare Junior Investigator Award for Excellence in Biomarker Research

Presented by: George M. Martin, MD, University of Washington School of Medicine/American Federation for Aging Research and Kim Gallagher, PhD, GE Healthcare

Stuart M. Chambers, PhD, Baylor College of Medicine
Carolina Ibáñez-Ventoso, PhD, Rutgers University
Krishnamurthy Janakiraman, PhD,
University of North Carolina at Chapel Hill
Ying Liang, PhD, University of Kentucky

12:00 – 12:30 pm

LUNCHEON BREAK

12:30 – 1:30 pm

KEYNOTE PRESENTATION

Introduction: Terrie Fox Wetle, PhD, Brown University/American Federation for Aging Research

The Outlook for Biological Research on Aging
Richard Hodes, MD, Director, National Institute on Aging

1:30 – 2:00 pm

THE BRIDGE

This presentation will feature a discussion about the types of human biomarkers that could emerge from the research described in the morning session as well as collaborative potential with industry for the development of new biomarkers.

Biomarkers to Study Homeostasis in the Baltimore Longitudinal Study of Aging Project
Luigi Ferrucci, MD, PhD, National Institute on Aging and Director of the BLSA Project

2:00 – 3:30 pm

SESSION II

A Discussion with Industry - Roundtable

This session will highlight industry-supported research, new and existing diagnostic, imaging and therapeutic technologies and product applications. Presenters from the morning session will be part of the discussion with industry representatives about resources available for biomarker research and the types of basic

science that is needed to make advances in the development of biomarkers of aging and diseases of aging.

Introduction: Terrie Fox Wetle, PhD, Brown University/American Federation for Aging Research

Moderator: Michael Berelowitz, MD, Pfizer Inc

Participants:

Mark Garner, PhD
Applied Biosystems/MDS SCIEX

Ihor W. Rak, MD
AstraZeneca

Kim Gallagher, PhD
GE Healthcare

Isro Gloger, PhD
GlaxoSmithKline

Kenton H. Zavitz, PhD
Myriad Pharmaceuticals, Inc.

Joan Amatniek, MD
Ortho-McNeil Janssen Scientific Affairs, LLC

Ann Taylor, MD
Pfizer Inc

3:30 - 3:45 pm

SUMMARY AND CLOSING REMARKS

George M. Martin, MD, University of Washington School of Medicine/American Federation for Aging Research

Stephanie Lederman, EdM, Executive Director, American Federation for Aging Research

3:45 – 4:45 pm

COCKTAILS AND POSTER SESSION

9th Floor, Rooms 2, 3 and 4

Meet and mingle with recipients:
AFAR-GE Healthcare Junior Investigator Award for Excellence in Biomarker Research
Grantees of AFAR-supported research programs

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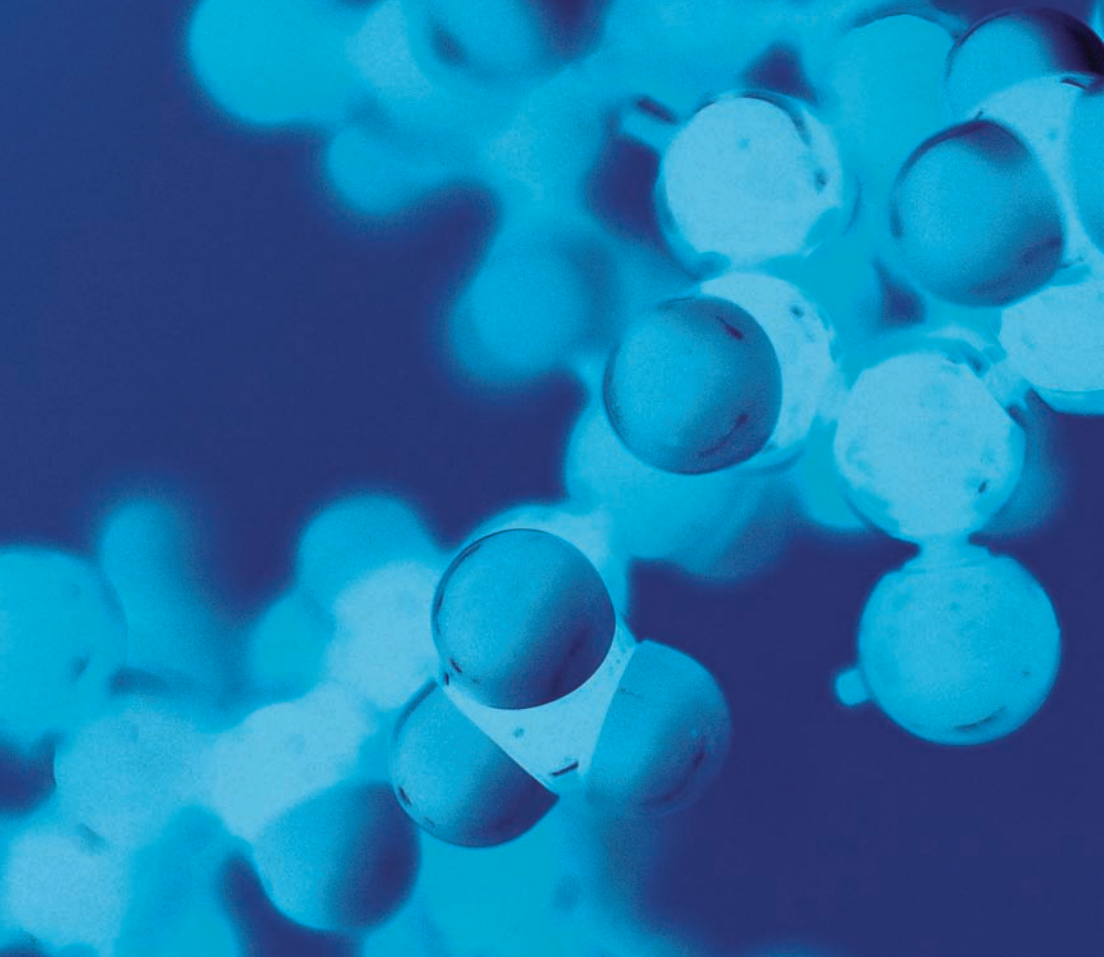
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The American Federation for Aging Research (AFAR) is a nonprofit organization whose mission is to support biomedical research on aging. It is devoted to creating the knowledge that all of us need to live healthy, productive, and independent lives. Since 1981, AFAR has awarded approximately \$100 million to more than 2,400 talented scientists as part of its broad-based series of grant programs. Its work has led to significant advances in our understanding of the aging process, age-related diseases, and healthy aging practices. AFAR communicates news of these innovations through its organizational web site www.afar.org and educational web sites Infoaging (www.infoaging.org) and Health Compass (www.healthcompass.org).

Funding for this conference was also made possible by 1R13AG31693-01 from the National Institute on Aging, National Institutes of Health. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government.



American Federation for Aging Research

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