



BECKMAN CENTER

THE ARNOLD AND MABEL BECKMAN CENTER
FOR MOLECULAR AND GENETIC MEDICINE

YOU ARE CORDIALLY INVITED TO ATTEND

THE SIXTH ANNUAL SYMPOSIUM ON
MOLECULAR AND GENETIC MEDICINE

AT STANFORD UNIVERSITY

ON MARCH 16 AND 17, 1995

PROGRAM

(Sessions to be held in Fairchild Auditorium)

MARCH 16

Afternoon Session:	Molecular Motors and the Cytoskeleton
1:15—1:30	Opening remarks —Paul Berg
1:30—1:40	Introduction—Jim Spudich
1:40—2:20	Christine Seidman: <i>Hypertrophic Cardiomyopathy—A Prototype for Genetic Approaches to Inheritable Disease</i>
2:20—3:00	Jim Spudich: <i>Single Myosin Molecule Mechanics: How Molecular Motors Work</i>
3:00—3:30	BREAK
3:30—4:10	Kevin Campbell: <i>Molecular Genetics of the Dystroglycan Complex and Muscular Dystrophy</i>
4:10—4:50	Ron Vale: <i>Microtubule ATPases: How ATP Energy is Used to Move Along and Disassemble Microtubule Polymers</i>
5:00—6:00	Student Discussions (Beckman Center, B200)

MARCH 17

Morning Session:	Mitochondrial Diseases
8:50—9:00	Introduction—David Clayton
9:00—9:40	David Clayton: <i>Molecular Features of the Human Mitochondrial Genetic System</i>
9:40—10:20	John Walker: <i>Structure of ATP Synthase: Rotary Catalysis Coupled to Proton Flow</i>
10:20—10:50	BREAK
10:50—11:30	Grace Wong: <i>Protective Mechanism of Lymphotoxin Against Radiation: Induction of Mitochondrial Manganous Superoxide Dismutase</i>
11:30—12:10	Eric Shoubridge: <i>Nature's Experiments with Mitochondrial DNA: From the Bedside to the Bench</i>
12:15—1:25	LUNCH
Afternoon Session:	Nitric Oxide: Novel Messenger Molecules in Biological Systems—The Byers Lectures
1:30—1:40	Introduction—Daniel Madison
1:40—2:20	Michael Marletta: <i>Nitric Oxide Synthase and Guanylate Cyclase: Key Enzymes in Nitric Oxide Signal Transduction</i>
2:20—3:00	John Garthwaite: <i>NO-cGMP Signalling in the CNS</i>
3:00—3:30	BREAK
3:30—4:10	Gavril W. Pasternak: <i>The NMDA Receptor—Nitric Oxide Cascade in Opioid Tolerance</i>
4:10—4:50	Daniel Madison: <i>Nitric Oxide and Carbon Monoxide as Mediators of Synaptic Plasticity</i>
5:00—6:00	Student Discussions (Beckman Center, B200)

Paul Berg,
Beckman Center
Stanford University

Kevin Campbell
HHMI/Department of Cell Biology
and Regulation
University of Iowa

David Clayton
Department of Developmental
Biology
Stanford University

John Garthwaite
Neuroscience Research
The Wellcome Research
Laboratories, UK

Daniel Madison
Department of Molecular &
Cellular Physiology
Stanford University

Michael Marletta
Department of Biological
Chemistry
University of Michigan

Gavril Pasternak
The George Cotzias Laboratory
of Neuro-Oncology
Memorial Sloan-Kettering
Cancer Center

Christine Seidman
Cardiovascular Genetics Center
Department of Genetics
Harvard Medical School

Eric Shoubridge
Department of Neurology &
Neurosurgery
McGill University

Jim Spudich
Department of Biochemistry
Stanford University

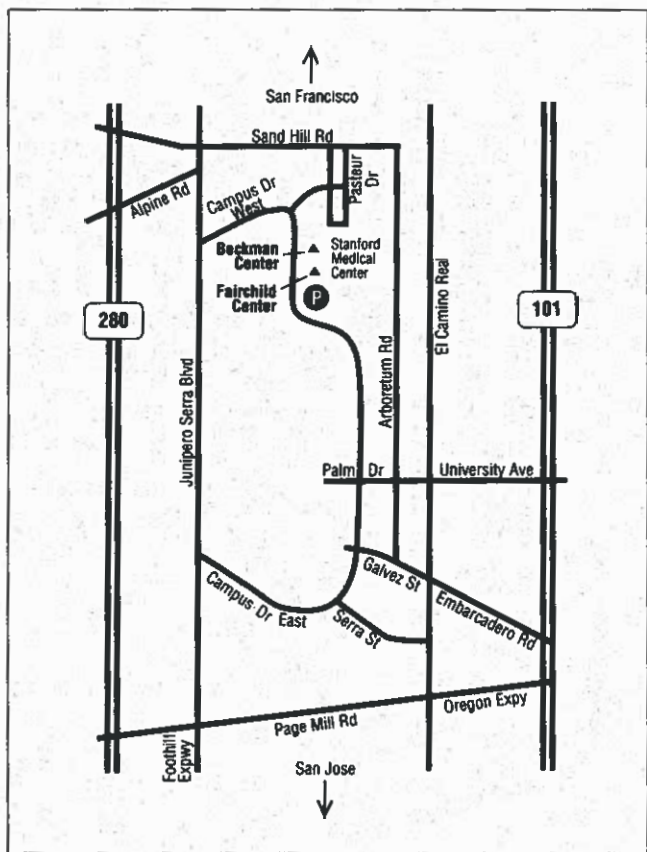
John Walker
Research Scientist
Laboratory of Molecular Biology
Cambridge, England

Ron Vale
Department of Pharmacology
University of California,
San Francisco

Grace Wong
Research Scientist
Cardiovascular Research
Department
Genentech, Inc.
San Francisco

Mr. Brook Byers provided generous financial support for
the Beckman Symposium.

Additional support was provided by Affymax,
Affymetrix, Peter S. Bing, Bristol-Myers Squibb Company,
Chiron Corporation, DNAX Research Institute,
Schering-Plough Research Institute, SYNTEX (U.S.A.) Inc.



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