

Novel Nanodelivery of siRNA and miRNA Symposium

June 10th, 2010 • 9:00 a.m. • CNSI Auditorium

I

Featuring Key Note Speeches:

siRNA Delivery by Targeted Nanoparticles:
From Preclinical Studies to Patients by

Mark Davis

Warren and Katherine
Schlinger Professor,
Chemical Engineering,
Caltech



Antoni Ribas

Associate Professor,
Department of Medicine,
Hematology/Oncology,
UCLA



Special Lecture:

In Vivo Delivery of siRNA to Immune Cells
by

Hua Yu

Professor,
Cancer Immunotherapeutics
and Tumor Immunology,
City of Hope



II

Biology and Medical Applications of siRNA and microRNA:

Molecular Mechanisms of microRNA
Maturation

by Feng Guo, UCLA Department of
Biological Chemistry

microRNA's in the Immune System

by Dinesh Rao, UCLA Department of
Hematopathology

MicroRNA34b and Human Leukemia

by Kathleen M. Sakamoto, Mattel Children's
Hospital UCLA, Department
of Pathology and Laboratory Medicine

NanoCide: A Potential Nanoparticle
Microbicide Using siRNA for EMP2

by Kathy Kelly, UCLA Department of
Pathology and Laboratory Medicine

Jonathan Braun, UCLA Department of
Pathology and Laboratory Medicine

Lynn Gordon, UCLA Department of
Ophthalmology

Programming Transfection Performance of
a Combinatorial Library of Supramolecular
Nanoparticles in a Digital Microreactor

by Hsian-Rong Tseng, UCLA Department of
Molecular and Medical Pharmacology

III

Nanodelivery Systems:

Gene/siRNA Delivery from Hydrogel Scaffolds

by Tatiana Segura, UCLA Department of
Chemical and Biomolecular Engineering

siRNA Delivery for Cancer Therapy Using
Mesoporous Silica Nanoparticles

by Jeff Zink, UCLA Departments of
Chemistry and Biochemistry, Inorganic
Chemistry, and Physical Chemistry

Fuyu Tamanoi, UCLA Department of
Microbiology, Immunology and Molecular
Genetics

Andre Nel, UCLA Division of NanoMedicine
(NanoMachine Center)

Silicon Nanoparticles

by Bahram Jalali and Nick (Hon-Kam)
Yan, UCLA Department of Electrical
Engineering

Nanodiscs & HDL

by Murakami Tatsuya, iCeMS Kyoto
University

Polypeptide Vesicles for Delivery of
Oligonucleotides

by Timothy J. Deming and Daniel T. Kamei,
UCLA Department of Bioengineering

Reversible siRNA-polymer Conjugates

by Heather Maynard, UCLA Department of
Chemistry and Biochemistry

Structural and Genetic Engineering of
Adenoviral Gene Delivery

by Lily Wu, UCLA Department of Molecular
and Medical Pharmacology, Urology, and
Pediatrics

Hong Zhou, UCLA Department of
Microbiology, Immunology and Molecular
Genetics

Magnetic Nanoparticle for Theranostics (Si
RNA delivery)

by Jinwoo Cheon, Professor, Yonsei
University/Visiting Professor at CNSI

IV

Industry Perspectives Panel Discussion:

Experience with siRNA startups

by Earl Weinstein, UCLA Office of
Intellectual Property and Industry
Sponsored Research

siRNA Projects at Merck & Co., Inc.

by Stanley Barnett, Senior Investigator,
Merck & Co., Inc.

siRNA Projects at Calando Pharmaceuticals

by Thomas Schlupe, Chief Scientific Officer,
Calando

NOF Corporation Perspective

by Tohru Yasukochi, General Manager
of DDS Research Laboratory, DDS
Development Division, NOF Corporation

Sponsored by The California NanoSystems Institute (CNSI) and
The Jonsson Comprehensive Cancer Center, Signal Transduction Therapeutics Program Area
Lunch Sponsored by NOF Corporation

Event organized by Fuyu Tamanoi, UCLA Department of Microbiology, Immunology and Molecular Genetics
For more information, please contact: gloriee@microbio.ucla.edu