

BIOMEDICAL SIMULATIONS RESOURCE
UNIVERSITY OF SOUTHERN CALIFORNIA

**ADVANCED METHODS OF
PHARMACOKINETIC AND PHARMACODYNAMIC
SYSTEMS ANALYSIS**

May 19 – 20, 1995

Marina International Hotel
4200 Admiralty Way
Marina del Rey, California

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BIOMEDICAL RESEARCH TECHNOLOGY PROGRAM
NATIONAL CENTER FOR RESEARCH RESOURCES
NATIONAL INSTITUTES OF HEALTH

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Chairman and Organizer:
David Z. D'Argenio, Ph.D.
Co-Director, Biomedical Simulations Resource

Workshop Schedule
Friday, May 19, 1995

8:30	Introductory Remarks	David Z. D'Argenio University of Southern California
8:35	Delivery of Macromolecules to Tumors: Insights from Intravital Microscopy and Fluorescence Photobleaching	David Berk Harvard Medical School
9:15	Physiologic Basis of Macromolecular Pharmacokinetics	Robert L. Dedrick National Institutes of Health
9:55	Pharmacometrics in Drug Development: Experience in Preclinical and Clinical Drug Evaluation	Jean-Louis Steimer Sandoz Pharma Ltd., Switzerland
10:35	Break	
10:50	Pharmacokinetic/-Dynamic Modeling of a Bivariate Control System: Lutenizing Hormone and Testosterone Response to the GnRH Antagonist Antide	Lewis B. Sheiner University of California, San Francisco
11:30	Analysis of Demand Frequency/Opioid Concentration Relationships During PCA (Patient-Controlled Analgesia) Therapy	Thomas Kramer University of Pennsylvania
12:10	Lunch Break	
1:30	Modeling Physiologic Indirect Pharmacodynamic Responses	Hui C. Ko State University of New York at Buffalo
2:10	Issues in Pharmacodynamic Parameter Estimatability	William Ebling State University of New York at Buffalo
2:50	Model Building in nonlinear Mixed Effects Models	José Pinheiro University of Wisconsin at Madison
3:30	Break	
3:45	A New Method for the Nonparametric Estimation of Parameter Distributions in Pharmacokinetic Population Studies	Alan Schumitzky University of Southern California
4:25	Pharmacokinetics of IGF-I: A Case Study in Population Pharmacokinetic Modeling with Time-Dependent Covariates	David M. Giltinan Genentech, Inc.
5:30	Reception	

Workshop Schedule

Saturday, May 20, 1995

8:30	Volterra Series Modeling of PK/PD Data	Davide Verotta University of California, San Francisco
9:10	Generalized Modeling of Nonlinear Pharmacokinetics	William Gillespie Food and Drug Administration
9:50	Pharmacokinetics of Multiple High-Dose Cancer Chemotherapeutic Agents	Gary Rosner Duke University
10:30	Break	
10:45	Pharmacodynamic Models for the Combined Action of Multiple Agents	William Greco Roswell Park Cancer Institute
11:25	Forecasting the Outcome of Clinical Trials	C. Anthony Hunt University of California, San Francisco
12:05	Lunch Break	
1:30	Impact of Noncompliance on Survival in Clinical Trials	Mark Sale Georgetown University
2:10	Modeling and Control in Anesthesia	Steven Shafer Veteran's Administration Medical Center & Stanford University
2:50	Break	
3:05	Sampling Based Approaches to the Design of Dosage Regimens	Jon Wakefield Imperial College of Science & Technology
3:45	Control of Uncertain Pharmacodynamic Processes	David Z. D'Argenio University of Southern California
4:25	Closing Remarks	David Z. D'Argenio University of Southern California
4:45	Reception	

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1995 Workshop on

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DIRECTORY OF PARTICIPANTS

Peter H. Abbrecht
USUHS
Dept. Physiology
4301 Jones Bridge Rd.
Bethesda, MD 20814-4799

Chul Ahn
City of Hope Medical Center
1500 E. Duarte Rd.
Duarte, CA 91010

Sundra R. B. Allerheiligen
Eli Lilly and Company
Wishard Memorial Hospital
Lilly Clinic
1001 W. 10th Street
Indianapolis, IN 46202

Michael Amantea
731 14th Avenue
Menlo Park, CA 94025

Yuichi Ando
Japanese Red Cross
Nagoya 1st Hospital
Dept. Internal Medicine
3-35 Michishita-cho Nakamura-ku
453 Nagoya
JAPAN

Phil A. Arundel
Zeneca Pharmaceuticals
Mereside Alderley Park
Cheshire SK10 4TG
United Kingdom

Sharyn Baker
Johns Hopkins Oncology Center.
Oncology 1-121
600 N. Wolfe Street
Baltimore, MD 21287

Robert Bauer
2910 Seventh Street
Berkeley, CA 94710

Brian W. Berry
Ontario Cancer Institute
500 Sherbourne St.
Toronto, Ontario M4X 1K9
CANADA

Rene Braeckman
Chiron Corporation
4560 Horton St. G122A
Emeryville, CA 94608-2916

David Berk
Massachusetts General Hospital
Dept. of Radiation Oncology
Boston, MA 02114

Nicholas Brown
University of California, Los Angeles
Dept. of Computer Science
801 Hilgard Avenue
Los Angeles, CA 90024

Diane Brundage
Methodist Hospital - Pharmacy
6500 Excelsior Blvd.
Minneapolis, MN 55426

Richard Brundage
University of Minnesota
College of Pharmacy
HSUF 9-145, 308 Harvard St. S.E.
Minneapolis, MN 55455

Akiko Chai
City of Hope Medical Center
1500 Duarte Road
Duarte, CA 91010-3000

Sharon Ann Chen
Chiron Corporation
4560 Horton Street
Emeryville, CA 94608-2916

Barbara Conley
University of Maryland
Cancer Center
655 W. Baltimore St.
Baltimore, MD 21201

William R. Crom
St. Jude Children's Research Hospital
Pharmaceutical Sciences Dept.
332 N. Lauderdale
Memphis, TN 38105

David Z. D'Argenio
University of Southern California
Dept. of Biomedical Engineering
OHE 500
Los Angeles, CA 90089-1451

Marie Davidian
Harvard Sch. of Public Health
Dept. of Biostatistics
677 Huntington Ave.
Boston, MA 02115

Lisa E. Davis
600 South 43rd Street
Philadelphia, PA 19104-4495

Robert L. Dedrick
National Institutes of Health
BEIP, NCRR
Building 13, Room 3N17
Bethesda, MD 20892-5766

Joseph J. DiStefano, III
University of California, Los Angeles
Computer Science Dept.
4531 Boelter Hall
Los Angeles, CA 90024-1596

James Dowell
University of Southern California
Dept. of Biomedical Engineering
OHE 500
Los Angeles, CA 90089-1451

Murray P. Ducharme
University of Montreal
Faculty of Pharmacy
P.O. Box 6128 Station A
Montreal, Quebec H3C 3J7
CANADA

Sandeep Dutta
1 LeBrun Road, Apt. #6
Buffalo, NY 14215

William Ebling
State University New York at Buffalo
Dept. of Pharmaceutics
Buffalo, NY 14260-1200

Merrill J. Egorin
University of Maryland
Cancer Center
655 W. Baltimore St.
Baltimore, MD 21201

Ene I. Ette
Food and Drug Administration
Division of Biopharmaceutics
HFD-426, Room 13B17
5600 Fishers Lane
Rockville, MD 20857

William Figg
National Cancer Institute
Clinical Pharmacology Branch
Bldg. 10, Rm. 5A01
Bethesda, MD 20992

Courtney Fletcher
University of Minnesota
College of Pharmacy, 7-115 HSUF
308 Harvard Street S.E.
Minneapolis, MN 55455

Alan Forrest
Millard Fillmore Hospital
Pharmacokinetics Lab
3 Gates Circle
Buffalo, NY 14209

William Gillespie
Food and Drug Administration
Division of Biopharmaceutics
HFD-426
5600 Fishers Lane
Rockville, MD 20857

Thomas Gilman
University Southern California
Pharmaceutical Science Center
1985 Zonal Ave.
Los Angeles, CA 90033

David M. Giltinan
Genentech, Inc.
460 Point San Bruno Blvd.
South San Francisco, CA 94080

William R. Greco
Roswell Park Memorial Institute
Grace Cancer Drug Center
New York State Dept. of Health
Buffalo, NY 14263

Jean-Michel Gries
UCSF-DSU
1318 7th Ave.
San Francisco, CA 94122

L. B. Grochow
Johns Hopkins Oncology 1-109
600 N. Wolfe Street
Baltimore, MD 21287-8934

Suneel Gupta
950 Page Mill Road
P.O. Box 10950
Palo Alto, CA 94303-0802

Andrew Hannaman
University of California, Los Angeles
515 Kelton Ave., #M-10
Los Angeles, CA 90024

Anne Heatherington
University of Washington
Center for Bioengineering, FL-2
Seattle, WA 98195

Thomas Henthorn
Northwestern University
Medical School
Ward Bldg. 12-189
Chicago, IL 60611

Gilberto Castaneda-Hernandez
Centro de Investigacion y De
Estudios Avanzados del Instituto
Politecnico Nacional
Apartdo Postal 22026
14000 Mexico DF
MEXICO

Phillip Hong
Watson Labs., Inc.
311 Bonnie Circle
Corona, CA 91720

C. Anthony Hunt
University of California, San Francisco
Program in Bioengineering and
Dept. of Pharmaceutical Chemistry and
Pharmacy
San Francisco, CA 94143

Agenta Hurst
University of Southern California
1985 Zonal Ave., PSC 602
Los Angeles, CA 90033

Paul R. Hutson
University of Wisconsin
School of Pharmacy
425 N. Charter St.
Madison, WI 53706

Roger Jelliffe
University of Southern California
School of Medicine
CSC-134-B
2250 Alcazar St.
Los Angeles, CA 90033

Donald Jung
SYNTEX
3401 Hillview Ave.
A3-288
Palo Alto, CA 94304-1320

Atsunori Kaibara
University of California, San Francisco
Dept. of Laboratory Medicine
Room c255 Box 0626
San Francisco, CA 94143

Christine Kearns
University of Maryland
Cancer Center
BRB 9-015
655 West Baltimore St.
Baltimore, MD 21201

Saraswati R. Kenkare
University of California, San Francisco
Box 0626 Room C-255
San Francisco, CA 94143

Hui C. Ko
State University of New York at Buffalo
School of Pharmacy
Dept. of Pharmaceutics
Buffalo, NY 14260

Ken Kobayashi
University of Chicago Medical Ctr.
Dept. Hematology and Oncology
MC 2115
5841 S. Maryland Ave.
Chicago, IL 60637

Thomas Kramer
University of Pennsylvania
Department of Anesthesia
3400 Spruce Street
776 Dulles Bldg./HUP
Philadelphia, PA 19104-4283

Motria Krawczeniuk
Philadelphia College of Pharmacy
and Science
600 South 43rd St.
Philadelphia, PA 19104-4495

Elliot M. Landaw
University of California, Los Angeles
School of Medicine
Dept. of Biomathematics
Box 951766
Los Angeles, CA 90095-1766

Paul Laub
Fox Chase Cancer Center
Institute for Cancer Research
7701 Burholme Avenue
Philadelphia, PA 19111

Stephane Lecoq
University of Southern California
School of Medicine
2250 Alcazar Street, CSC 134-B
Los Angeles, CA 90033

Angela Lopez
University of California, Los Angeles
3767 Mentone Ave. #116
Los Angeles, CA 90034

Bert L. Lum
P.O. Box 37-1005
Montara, CA 94037

Richard Lush
National Cancer Institute
Clinical Pharmacology Branch
Bldg. 10, Rm. 5A01
9000 Rockville Pike
Bethesda, MD 20892

Timothy Madden
Anderson Cancer Center (Box 90)
1515 Holcombe Blvd.
Houston, TX 77030

Pascal Maire
University of Southern California
School of Medicine
2250 Alcazar Street, CSC 134-B
Los Angeles, CA 90033

Jaap W. Mandema
Stanford University
Medical Center
Department of Anesthesia
300 Pasteur Drive
Stanford, CA 94305-5115

Daniel C. Maneval
Canji, Inc.
3030 Science Park Road
San Diego, CA 92121

Steven W. Martin
University of Washington
Dept. of Pharmaceutics
School of Pharmacy BG-20
H259 Health Science Building
Seattle, WA 98195

Tamara Maryon
City of Hope National Medical
1500 E. Duarte Rd.
Duarte, CA 91010

Eric Masson
St. Jude's Children's Hospital
Pharmacokinetics Department
332 N. Lauderdale
P.O. Box 318
Memphis, TN 38101

Howard S. Mehler
6399 Wilshire Blvd.
Suite 310
Los Angeles, CA 90048

Hironobu Minami
University of Chicago
Medical Center
5841 S. Maryland Ave., MC 2115
Chicago, IL 60637-1470

Nishit B. Modi
Genentech, Inc.
460 Pt. San Bruno Blvd.
S. San Francisco, CA 94080

DJ Murray
Texas Children's Hospital
Depts. Hematology - Oncology
6621 Fannin Street
mc B-3320
Houston, TX 77030

Francisco J. Flores-Murrieta
Apartado Postal 22026
14000 Mexico, D.F.
MEXICO

Jerry R. Nedelman
Sandoz Pharmaceuticals
59 Route 10
East Hanover, NJ 07936

Edward M. Newman
City of Hope Medical Center
Division of Pediatrics
1500 East Duarte Road
Duarte, CA 91010-3000

Thuvan Nguyen
University of California, Los Angeles
Computer Science Dept.
4531 Boelter Hall
Los Angeles, CA 90024-1596

Steve Olson
Parke-Davis Pharm. Res.
2800 Plymouth Road
Ann Arbor, MI 48105-1047

George Papandonatos
SUNY at Buffalo
School of Medicine
Dept. of Statistics
242 Farber Hall
3435 Main Street
Buffalo, NY 14214-3000

Kyungsoo Park
420 7th Avenue, #203
San Francisco, CA 94118

Charles Peloquin
National Jewish Center
Room 212
1400 Jackson St.
Denver, CO 80206

Antonia Periclou
Children's Hospital Los Angeles
4650 Sunset Blvd.
Mail Stop #57
Los Angeles, CA 90027

William P. Petros
Duke University Medical Center
Bone Marrow Transplant Prog.
Box 3961 (DUMC)
Durham, NC 27710

Jose Pinheiro
University of Wisconsin
Medical Science Center
Dept. of Biostatistics
1300 University Avenue
Madison, WI 53706-1693

Jerry Radzuik
Ottawa Civic Hospital
Director, Clin. Invest. Unit
Diabetes & Metabolism Res. Unit
1053 Carling Ave.
Ottawa, Ontario K1Y 4E9
CANADA

Karyn Redkopp
University of Southern California
Dept. Biomedical Engineering
OHE 500
Los Angeles, CA 90089-1451

James Reimann
Genentech Inc.
Biostatistics - MS 66
460 Point San Bruno Blvd.
South San Francisco, CA 94080

John Rodman
St. Jude Children's Research Hospital
332 N. Lauderdale
Memphis, TN 38101

Keith A. Rodvold
University of Illinois
College of Pharmacy Rm. 164
MC 886
833 S. Wood St.
Chicago, IL 60612

Gary Rosner
Duke University
Medical Center
Comprehensice Cancer Center
Biostatistic, Computing & Data
Management
P.O. Box 3958
Durham, NC 27710

Hideo Saka
Nagoya University
School of Medicine
First Dept. of Internal Medicine
65 Tsurumai-cho, Showa-ku
Nagoya 466
JAPAN

Mark Sale
Georgetown University
Medical Center
Center for Drug Development Science
3900 Reservoir Road, NW
Med-Dent Building, NE 405
Washington DC 20007

Alfredo R. Sancho
University of Southern California
Radiopharmacy
1985 Zonal Ave. #610
Los Angeles, CA 90033

Alan Schumitzky
University of Southern California
Dept. of Mathematics
Los Angeles, CA 90089

Shane D. Scott
University of Iowa
College of Pharmacy
2280 Quad
Iowa City, IA 52242

Jack Segal
PRIN
VA Medical Center Res. 151
5901 E. 7th St.
Long Beach, CA 90822

Steven Shafer
Veteran's Administration Medical Center
Anesthesia Service 112A
3801 Miranda Avenue
Palo Alto, CA 94304

Jaymin Shah
2400 Hanover Street
P.O. Box 10950
Palo Alto, CA 94303

Lewis B. Sheiner
University of California, San Francisco
School of Medicine & Pharmacy
Depts. of Lat. Medicine & Medicine
San Francisco, CA 94143

Bhasker V. Shetty
Agouron Pharmaceuticals Inc.
3565 General Atomics Court
San Diego, CA 92121

Tetsu Shinkai
National Cancer Center Hospital
Tsukiji 5-1-1
Chuo-ku, Tokyo 104
JAPAN

Robert M. Shore
Millard Fillmore Hospital
Clinical Pharmacokinetics Lab.
3 Gates Circle
Buffalo, NY 14209

David R. Spriggs
Memorial Sloane Kettering
Cancer Center
1275 York Ave.
New York, NY 10021

Grazia Stagni
UTHSC San Antonio
Department of Pharmacology
Clinical Pharmacology
7703 Floyd Curl Drive
McDermott Building
San Antonio, TX 78284-6205

Jean-Louis Steimer
Sandoz Pharma Ltd.
Pharmacometry
WSP/LTG, 386/1336
CH-4002 Basel
Switzerland

Yu-Nein Sun
State University of NY at Buffalo
548 Hochstetter Hall
Buffalo, NY 14260

Timothy W. Synold
City of Hope Medical Center
Medical Oncology
1500 East Duarte Road
Duarte, CA 91016

Istvan Szinai
IDEC Pharmaceuticals Co.
11011 Torreyana Road
San Diego, CA 92121

Frank-Peter Thiel
Hoffman-la-Roche AG
Grenzacher Str. Bldg. 69115a
CH-4002 Basel
SWITZERLAND

Jake J. Thiessen
University of Toronto
Faculty of Pharmacy
19 Russell St.
Toronto M5S 2S2
CANADA

Margaret Tonda
St. Jude Children's Research Hospital
Pharmaceutical Division
332 N. Lauderdale
Memphis, TN 38105

Jerome Torresyap
University of Southern California
Dept. Biomedical Engineering
OHE 500
Los Angeles, CA 90089-1451

David G. Udo
Food and Drug Administration
Division of Biopharmaceutics
Room 13B-06, HFD-426
5600 Fishers Lane
Rockville, MD 20857

Peter Veng-Pedersen
University of Iowa
College of Pharmacy
118 Pharmacy
Iowa City, Iowa 52242

Davide Verotta
University of California, San Francisco
Pharm. & Pharmaceutical Chemistry
Epidemiology & Biostatistics
523 Parnassus
San Francisco, CA 94143-0446

Russell Wada
Stanford University
School of Medicine
Dept. of Anesthesia
300 Pasteur Dr.
Stanford, CA 94305-5117

Jon Wakefield
Imperial College of Science & Technology
Dept. of Mathematics
Exhibition Road
London, SW7 2AZ
United Kingdom

Yanfeng Wang
PDM, Parke-Davis Res. Div.
Warner-Lambert Co.
2800 Plymouth Road
Ann Arbor, MI 48105

Michael M. Weiner
2058 Lindengrove St.
Westlake Village, CA 91361

Luman R. Wing
3050 Science Park Road
San Diego, CA 92121

Matthew B. Wolf
University of South Carolina
School of Medicine
Dept. of Physiology
Columbia, SC 29208

Walter Wolf
University of Southern California
School of Pharmacy
1985 Zonal Ave.
Los Angeles, CA 90033

James R. Woodworth
Wishard Memorial Hospital
Lilly Laboratory for Clinical Research
1001 W. 10th Street
Indianapolis, IN 46202

Yuri Yanishevski
St. Jude Children's Research Hospital
Pharmacokinetics Dept.
332 N. Lauderdale
P.O. Box 318
Memphis, TN 38101

Zhilling Yu
950 Page Mill Road
P.O. Box 10950
Palo Alto, CA 94303-0802

Ruiwen Zhang
University of Alabama at Birmingham
Volker Hall 101
Box 600
Birmingham, AL 35294-0019

Joan Zuckerman
ISIS Pharmaceuticals
2292 Faraday Ave.
Carlsbad, CA 92008