ROGER W. JELLIFFE, M.D.

CURRICULUM VITAE AUGUST 5, 2010

A. Personal Information:

	Name	Roger Jelliffe W, MD,
	Business Address	2250 Alcazar St, room 134-B 1
		Los Angeles CA 90033
	Business Phone	(323) 442-1300
	Business Fax	(323) 442-91302
	Home Address	825 South Madison Avenue.
		Pasadena CA 91106
	Home Phone	626-792-3220, cell 626-484-5313
	Place of Birth	Cleveland, Ohio
	Date of Birth	February 18, 1929
	Citizenship	USA
	E-Mail Addresses	jelliffe@usc.edu
	Languages	English, Spanish, French
	Gender	Male
	Marital Status	Married (Wife = Joyce Miller Jelliffe)
	Number of Children	Four (Susan Meloy, Amy Johnson, Elizabeth
		Messinger, Peter Jelliffe)
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В.	Education:	
	High School	University School, Shaker Heights, Ohio, 1946
	College or University	Harvard College, Cambridge MA, BA 1950, Social Relations
	Medical School	Columbia University College of Physicians and Surgeons, New York, NY, M.D.,1954
	Internship	University Hospitals of Cleveland, Ohio, 1954-55
	Residency	Junior Assistant Resident in Medicine, University Hospitals of Cleveland, Ohio, 1955,56
	Fellowships	National Foundation for Infantile Paralysis Fellow in Experimentsl Medicine, Western Reserve University School of Medicine, 1956-58 Research Fellow, Los Angeles County Heart Association, 1961-1964.
	Honors and Awards	 Who's Who in America 1990, 1994 - 2010 Who's Who in Science and Engineering 1990 -

3. Thesis Advisory Committee, Teresa Iglesias, Ph. D., Faculty of Pharmacy, University of Salamanca, Spain, 1984.

4. Conseiller, ADCAPT (Association pour le Developpement du Controle Adaptatif en Pharmacocinetique et en Therapie), Hopital Antoine Charial, Hospices Civils de Lyon, France, 1987-5. Merck, Sharp and Dohme Visiting Professor of Clinical Pharmacology, Christchurch Hospital, University of Otago, Christchurch, New Zealand, September 10-28, 1991.

- 6. Nominated for the Therapeutic Frontiers Lectureship for the American College of Clinical Pharmacy, March, 1992.
- Session Chairman, Adaptive Control of Clinical Trials - Dosing to Effect or Concentration Endpoints.
 28th Annual Meeting of the Drug Information Association, San Diego CA, June 8-11, 1992.

8. Consultant, Foundation for Research

Development, Government of South Africa, 1994 -

9. Consultant, Research Grants Council, University Grants Committee, Chinese University of Hong Kong, 1994 -

10. Member, Scientific Program Committee, 8th World Congress on Medical Informatics, July 23 - 27, 1995, Vancouver, BC.

11. Member, Research Advisory Panel, State of California, 1995 - 1997.

12. Thesis Advisory Committee, Alain Laffont, Pharm.D., School of Pharmacy, Claude Bernard University Lyon 1, Lyon, France, 1995.

13. Chairman, Pharmacometrics Section, American Society for Clinical Pharmacology and Therapeutics, 1995 - 1998.

14. Thesis Advisory Committee, Alexander Vinks,

Ph.D., University of Leiden, Holland, November, 1996. 15. Consultant, Medical Research Council of Canada, 1996.

16. Co-Chairman, Advisory Committee, Chair of Population Kinetics, Faculty of Pharmacy, University of Montreal, Canada, 1997 – 2004.

17. Member, Clinical Pharmacokinetics Committee, International Association of Therapeutic Drug

Monitoring and Clinical Toxicology, 1997-

18. Award for Research Achievement in Clinical

Medicine, American Association of Pharmaceutical Sciences, November, 1997.

19. Member, Bionome Project, San Diego Supercomputer Center, 1998 - 20. Member, Executive Committee, Center for Applied Mathematical Sciences, University of Southern California, 1998 -

21. Executive Board, USC Medical Faculty Association, 1998-99

22. Member, USC Academic Senate, 1998-99

23. Thesis Advisory Committee, Pascal Maire, Ph.D., University of Lyon 1, France, November, 1998.

Member of his jury, December 11, 1998.

24. External promotions evaluator, National University of Singapore, 1998 –

25. External Examiner, School of Pharmacy, Universiti Sains Malaysia, Kelantan, Malaysia, 2001 – 2003. 26...Master's thesis advisor and mentor, Annebjoerg Eide, University of Oslo School of Pharmacy, 2001-2002.

27.Listed in Consumers' Research Council Guide to America's Top Physicians, 2003.

28. Thesis Advisory Committee and external examiner, Georgi Yaralov, Ph.D., Center for Applied Mathematical Sciences, University of Southern

California, April 2002.

29.Education Committee, American Society for Clinical Pharmacology and Therapeutics, 2002 –

30.External Examiner, School of Pharmacy, University of Montreal, Canada, 2003.

31.Honorary Member, Bulgarian League of Hypertension, Sofia, Bulgaria, 2003.

32.Scientific Program Committee, International

Conference on Health Sciences Simulation, Western Multiconference, January 18-22, 2004, San Diego CA. 33.Member, Board of Directors, Center for the

Prevention of Medication Side Effects, San Diego CA, 2003.

34.Ph.D Thesis Advisory Committee and mentor, Sylvain Goutelle, University of Lyon 1, France, Nov 2007 – May 2008.

35. Member, External Advisory Board, Pediatric Knowledgebase (PKB) KMAS (Kinetic Modeling & Simulation), Institute for Translational Medicine University of Pennsylvania, Jeffrey Barrett, PI, 2008 -

Medical Licensure	CA, G-6552, active, Ohio, inactive
Board Certification	Internal Medicine, 1962, CV Disease, 1965
Other	Staff Physician in Medicine, VA Hospital Cleveland Ohio, 1956-1958
	Resident in Medi cine, VA Hospital Cleveland Ohio,
	1958-1960
	DEA number = AJ8415451

C. Professional Background:

Academic Appointments

Instructor in Medicine, University of Southern California School of Medicine, 1961-1963. Assistant Professor of Medicine, 1963 -1967.

Associate Professor of Medicine, 1967 -1976.

Professor of Medicine, 1976 -

Professor of Medicine and Pathology, 1993 -

"Associated" Professor, Faculty of Pharmacy, University of Montreal, 2000 - 2004 Professor of Pharmaceutical Sciences, USC School of Pharmacy, July, 2001 -

Clinical Administrative Appointments

Attending Physician, Los Angeles County/University of Southern California Medical Center, 1961-2003

Visiting Instructor in Biochemistry, Baylor University School of Medicine, Houston, Texas, June 1963.

Medical Director of Postgraduate Course "Medicine and Physical Diagnosis for Dentists", USC School of Dentistry, 1963 - 1977.

Consultant in Medicine, Metropolitan State Hospital, Norwalk, Calif., 1964 - 69.

Consultant in Cardiology, Rancho Los Amigos Hospital, Downey, California, 1967 –1980

Specific Teaching Responsibilities

Lecturer, Survey of Cardiiovascular Disease, 1961-65 Member, Year 1 and 2 Cardiovascular Committees, 1968 -1973. Co-Chairman, Year 2 Cardiovascular Committee, 1971. Preceptor, 2nd Year Course in Physical Diagnosis, 1961-1967. Preceptor, 3rd Year Clinical Clerkship in Medicine, 1967 - 1992. Lectures in Cardiology and Clinical Pharmacology for House Staff, 1974 -Cardiology Clinic, 1 afternoon per week 1974 -78 Elective Course in Pharmacokinetics, Therapeutics, and Individualizing Drug Therapy, 3rd and 4th year students, 1977 - 1995 EKG teaching to house staff 4-6 times weekly, 1980 - 1992. Cardiology Workshop on valve lesions, 2nd year students, 1980 - 1990 Lectures to 4th year Pharmacy students, approximately 1 per month, 1984 – 1995. Elective Course in Electrocardiography, 3rd and 4th year students, 1963-1968, 1986 -1993 Weekly Pharmacokinetic Conference, LAC/USC Medical Center, 1994 - 1997 Seminars with Residents in Geriatric Medicine, USC University Hospital, 1997 – 2003 Lecturer, Course in Therapeutics and Pharmacokinetics, USC School of Pharmacv. 2003, 2004.

Course Coordinator, Advanced Pharmacokinetics, USC School of Pharmacy, 2009.

Specific Administrative Responsibilities

Student Summer Research Committee, 1964 -76. Vivarium Committee, 1970.

University Committee on Patents, 1971-

Chairman 1974-1981, Co-Chairman, 1983 - 84. University Subcommittee on Software, 1983 - 1990, Chairman 1983. Developer and Director, USC Laboratory of Applied Pharmacokinetics, 1973 -Faculty Appointments and Promotions Committee, 1978 - 89, 93 – 96. University Academic Policy and Procedures Committee, 1982 - 84. Faculty Senate Committee on Academic Integrity, 1985 - 89 Instructional Computing Committee for USC Project Socrates, 1985 - 88 Committee on Computers and Telecommunications, 1985 - 88 Faculty Senate, 1985-89 Executive Committee 1986-88 Medical Faculty Association Health Science Caucus, 1986 - , President 1987-88 Faculty Senate Committee on Faculty Environment, 1988-89 Member, Quality Assessment Committee, LAC/USC Medical Center, 1995-Member, USC Library and Learning Resources Committee, 1996-University High Performance Computing and Communication Advisory Council, 2000-

Military Service

None

Other

- 1. Attending Physician, Los Angeles County/University of Southern California Medical Center, 1961-2003
- 2. Visiting Instructor in Biochemistry, Baylor University School of Medicine, Houston, Texas, June 1963.
- 3. Medical Director of Postgraduate Course "Medicine and Physical Diagnosis for Dentists", USC School of Dentistry, 1963 1977.
- 4. Consultant in Medicine, Metropolitan State Hospital, Norwalk, Calif., 1964 69.
- 5. Attended "Basic Research Course in Radioisotopes", Oak Ridge Institute of Nuclear Studies, Oak Ridge, Tennessee, June July 1966.
- 6. Consultant in Cardiology, Rancho Los Amigos Hospital, Downey, California, 1967 1977.
- 7. Member, Program Committee, Los Angeles County Heart Association Spring Symposium, 1967, 1968, 1973: Chairman 1969.
- 8. Member, Program Committee, Los Angeles County Heart Association Fall Symposium 1973; Chairman 1974.
- 9. Member, Fellowship Study Section, Los Angeles County Heart Association, 1969; Chairman 1970.
- 10. Member, Griffith Lectureship Committee, Los Angeles County Heart Association, 1974.
- 11. Supervisor, Drug Therapy Pharmacokinetic Consulting Service, Los Angeles County-University of Southern California Medical Center, 1978 -
- 12. Primary author and developer (since 1967) of the USC*PACK collection of medically oriented computer programs for community and teaching hospitals. This collection was a Network Software Service of the General Electric Mark III Timesharing System

from 1973 to 1985, and of Comshare, Inc., from 1977 to 1989. The library of available programs has included:

- (A) Computer Programs for Clinical Pharmacology and Therapeutics.
- 1. Evaluation of creatinine clearance in adults without a urine specimen, for stable or changing serum creatinine values.
- 2. Dosage regimens of digitoxin, digoxin, lanatoside C, or digitalis leaf, adjusted to body weight (or approximate lean body weight) and renal function.
- Adaptive control of dosage regimens of aminoglycoside antibiotics, adjusted to body weight, renal function, and serum levels, using both 1 and 2 compartment models. IV infusion regimens also calculated proper pump settings, and downloaded the regimen into a "smart" infusion pump for automated, reliable delivery.
- 4. Adaptive control of dosage regimens of oral or IV procainamide, adjusted to body weight, renal function, and serum levels.
- 5. Adaptive control of dosage regimens of oral quinidine.
- 6. Adaptive control of infusion regimens of lidocaine, adjusted to body weight, measured or estimated cardiac output, and serum levels, with calculation of pump settings, and with downloading of the regimen into a smart infusion device.
- 7. Dosage regimens of cephaloridine, adjusted to body weight and renal function.
- 8. Estimation of creatinine clearance in newborns.
- 9. Adaptive control of gentamicin regimens in newborns.
- 10. Adaptive control of dosage regimens of digitoxin and digoxin, using a 2 compartment model of each drug, in which the dosage regimen is designed to control the peak total body glycoside concentration in the peripheral compartment.
 - (B) Computer Programs for Cardiology (with Donald W. Crawford, M.D.)
- 1. Computations for the Cardiac Catheter Laboratory. Calculation of ventricular volumes, contractility indices, valve areas, and cardiac outputs when one touches off ventricular outlines, pressure traces, and dye curves on an X-Y digitizer. Calculation of shunt flows and vascular resistances.
- 2. Analysis of Echocardiographic Data when it is touched off on an X-Y digitizer or entered manually.
- 3. Analysis of Systolic Time Intervals when entered on an X-Y digitizer or entered manually.
- (C) Computer Pulmonary Function Programs (with John Mohler, M.D.).

Analysis and interpretation of data of

- 1. Blood Gases
- 2. Spirometry
- 3. Lung Volumes
- 4. Diffusing Capacity

The USC*PACK collection of programs has been owned, copyrighted, and licensed for use by the University of Southern California to over 30 institutions through:

Comshare, Inc.

3325 Wilshire Boulevard, Suite 500 Los Angeles, California 90010 Phone (213) 387-1171

General Electric Information Services Company 401 N. Washington Street Rockville, Maryland 10850

Primary author and developer, since 1982, of the USC PC-PACK collection of computer programs for the IBM PC and compatible machines.

The programs run on 640K machines with a math coprocessor. They include specific programs for Amikacin, Gentamicin, Netilmicin, and Tobramycin, and 2 General Modeling programs, one using Bayesian fitting and one using weighted nonlinear least squares fitting. The Bayesian program has population models to guide therapy with lidocaine, digitoxin, digoxin, digoxin with quinidine, vancomycin, theophylline, procainamide, quinidine, gentamicin in newborns, and trimethoprim.

As of 12/9/94, these programs have been ordered by and distributed to 622 domestic and 412 foreign researchers (total = 1034).

Primary author and developer:

- a) A nomogram for digoxin dosage
- b) A nomogram for kanamycin dosage
- c) A nomogram for gentamicin dosage

These nomograms are owned, copyrighted, and produced by the University of Southern California. They may be obtained as plastic cards for the wallet from:

Nomograms - Business Office University of Southern California School of Medicine 2025 Zonal Avenue Los Angeles, California 90033

D. Society Memberships:

Distinguished

American Federation for Clinical Research, 1965 - 1992
Fellow, Council on Clinical Cardiology, American Heart Association, 1967- 82, 1992 - Fellow, American College of Cardiology, 1967 -1978.
Fellow, American College of Physicians, 1966 - 2007
Western Society for Clinical Research, 1967 – 1999
American Society for Clinical Pharmacology and Therapeutics, 1980 - 2006

Abstract grader, 1988 Chairman, Pharmacometrics Section, 1995-1997
Education Committee 2002

American College of Clinical Pharmacology, 1981-1985, Fellow 1995 –
Fellow, American Academy for Veterinary Pharmacology and Therapeutics, 2007 -

Professional

American Association for Clinical Chemistry, 2006,-American Society for Pharmacology and Experimental Therapeutics, 1980 – 82 Association for the Advancement of Medical Instrumentation, 1982 - 1992 European Society of Clinical Pharmacy, 1984 - 1999 Fellow, American College of Medical Informatics, 1985 -American Medical Informatics Association, 1990 - 2002 American Association of University Professors, 1992-American Society for Microbiology, 1994 – International Association for Therapeutic Drug Monitoring and Clinical Toxicology, 1995 – Clinical Pharmacokinetics Committee, 2003 -

Associate Member, Society of Infectious Disease Pharmacists, 1998 -

E. <u>Service</u>:

Professional Organizations

National/International

American Society for Clinical Pharmacology and Therapeutics, 1980 - 2006 Abstract grader, 1988 -Chairman, Pharmacometrics Section, 1995-1997

Education Committee 2002-

International Association for Therapeutic Drug Monitoring and Clinical Toxicology, 1995 –

Clinical Pharmacokinetics Committee, 2003 -

Local

None

University/Other Committees

Faculty Appointments and Promotions Committee, 1978 - 89, 93 – 96. University Academic Policy and Procedures Committee, 1982 - 84. Faculty Senate Committee on Academic Integrity, 1985 - 89 Instructional Computing Committee for USC Project Socrates, 1985 - 88 Committee on Computers and Telecommunications, 1985 - 88 Faculty Senate, 1985-89 Executive Committee 1986-88 Medical Faculty Association Health Science Caucus, 1986 - , President 1987-88 Faculty Senate Committee on Faculty Environment, 1988-89 Member, Quality Assessment Committee, LAC/USC Medical Center, 1995-Member, USC Library and Learning Resources Committee, 1996-University High Performance Computing and Communication Advisory Council, 2000-

Government Activities

None

NIH Study Section

NIGMS Study Section on New Mathematical Methods in Biomedicine, about 2004

Grant reviewer and site visitor, NIH-NCRR, SBIR, NSF

Editorships

- Guest Editor, with Chizeck H, and Cheung P, of a special issue of IEEE Transactions on Biomedical Engineering, BME-34, Volume 8, 1987.
- Guest Editor, with Pascal Maire, Pharm.D., and Alan Schumitzky, Ph.D., of a special issue of the International Journal of Bio-Medical Computing, Elsevier, Holland, on "Estimation and Control of Patient Variability for Individualized Antibiotic Therapy", Volume 36, No 1,2, June 1994.
- Guest Editor, with Pascal Maire, Ph.D., of a special issue of Computers in Biology and Medicine, on Goal-Oriented, Model-Based Drug Regimens, Volume 31, Number 3, May 2001.

Editorial Boards

American Journal of Medicine, 1970 – 78
Current Prescribing 1975 - 78.
Modeling Methodology Forum, American Journals of Physiology, Applied Physiology, and Neurophysiology, 1984 – 1991
Computers in Biology and Medicine, 1993 -Therapeutic Drug Monitoring, 1995 –
Clinical Pharmacokinetics, 2001 –
"Klinicheskaja Farmakokinetika" (Moscow, Russia) 2003 – 2009
Journal of Clinical Medicine, Sofia, Bulgaria, 2008 -

Journal Reviews

American Journal of Hospital Pharmacy American Journal of Medicine American Journal of Nephrology Annals of Internal Medicine Archives of Internal Medicine British Journal of Clinical Pharmacology Chest **Clinical Therapeutics** Computers and Biomedical Research Computers in Biology and Medicine East European Medical Journal European Journal of Clinical Investigation Fundamental and Clinical Pharmacology IEEE Transactions on Biomedical Engineering International Journal of Bio-Medical Computing International Journal of Cardiology International Journal of Medical Informatics Journal of the American Medical Association Journal of Toxicology - Clinical Toxicology Nephrology Pharmaceutical Research Pharmacotherapy

Grant Reviews

NIGMS NIBIB

Community Service

None

Other

Symposia

Member, Program Committee, Los Angeles County Heart Association Spring Symposium, 1967, 1968, 1973: Chairman 1969.

Member, Program Committee, Los Angeles County Heart Association Fall Symposium 1973; Chairman 1974.

Sessions Chaired

Consultantships

- 1. Guest Examiner, Cardiovascular Subspecialty Board Examinations, 1970-72.
- 2. Consultant, Belcron Laboratories, Montrose, California, 1975 1977.
- 3. Consultant, Turpin Systems Company, Sepulveda, California, 1977.
- 4. Consultant, Dynamic Sciences International, Inc., Van Nuys, California, 1977 1997
- 5. Consultant, SIMES, s.p.a., 20161 Milan, Italy, 1979 1994
- 6. Consultant, IVAC Corporation, San Diego, California, 1983 1988
- 7. Consultant, Bionica Pty., Sydney, Australia, 1990 1995
- 8. Grant reviewer and site visitor, NIH-NCRR, SBIR, NSF
- 9. Consultant, Amgen Corp., Thousand Oaks CA, 2001 2003

F. <u>Research Activities</u>:

Major Areas of Research Interest

- 1. Measurements of digitalis levels in urine, myocardium, and blood. Application of pharmacokinetics to digitalis therapy. Development of computer programs and nomograms to manage digitalis dosage regimens optimally.
- 2. General methods (usually computer software) to provide structure for optimal adaptive control of drug therapy, especially for therapy with digitalis glycosides, aminoglycoside antibiotics, lidocaine, procainamide, quinidine, theophylline, and drugs for cancer chemotherapy, transplant therapy, and AIDS.
- 3. Automatic control of "smart" infusion apparatus to deliver such regimens.

Research in Progress

NIGMS Grant 1-RO1-GM68968, Population Pharmacokinetic Modeling and Optimal Control, 6/15/03-7/31/11, \$1,838,000 total.

NIBIB Grant 1-RO1-EB005803, Optimizing Coordinated Combination Drug Therapy, 7/1/06 - 4/30/10, \$2,421,899 total.

Research Grants

1.National Foundation for Infantile Paralysis (NFIP), 1956-1958

2.Los Angeles County Heart Association Awards #345, 346,

347, 1964-1965, Award #371, 1965-1966. Emergency Request 1965, LACHA Award #391, 1966-1967, LACHA Emergency Request 1970, American Heart Association #70-689, 1970-1973. 3.USPHS Grant H 7197, 1961-1968. 4.USPHS Grant HL 09428, 1965-1974. 5.USPHS Grant HL 11475, 1967-1973. 6.Health Foundation of the Arrowhead Area, 1964. 7.Lloyd Brothers, Incorporated, 1964. 8.Eli Lilly Company - A Computer Program for Loridine Dosage Regimens, 1973-1974. 9.Eli Lilly Company - A Study of Digitoxin Bioavailability, 1974-1975. 10. DHEW: Bureau of Health Resources Grant MB00146. USC Health Sciences Computer Laboratory, 1974-1978. 11.Eli Lilly Company - A Computer Program for Tobramycin Dosage Regimens, 1975-1981. 12.NIH: National Institute of General Medical Sciences Grant GM23826. Laboratory of Applied Pharmacokinetics, 1977-1980. 13.Arnar-Stone Laboratories, Inc., Chronic NAPA Phase III Study, 1980-1981. 14.Schering-Plough Corporation, Four-Way Comparative Study of Netilmicin and Gentamicin in Patients with Serious Systemic Infections: Pharmacokinetic Dosing (Blind Evaluator Protocol), 1980-1982. 15.NIH: Division of Research Resources Grant RR01629 01-03. Computer Systems for Optimal Adaptive Control of Drug Dosage Regimens, 1982-1985. 16.IVAC Corporation, Microcomputer Software for Adaptive Control of Drug Dosage Regimens, 1983-1985. 17.NIH: Division of Research Resources Grant RR01629. Optimal Study and Control of Pharmacokinetic Systems, 1985 - 92, \$4,307,692 total. 18.NIH: National Library of Medicine, Grant 1 RO1 LM05401, 01-03. New Decision Supports and Databases for Drug Dosage, 1/1/1992 - 12/31/1994, \$1,135,015 total. 19.NIH: National Library of Medicine, Grant 1 RO1 LM05401, 04-06. New Decision Supports and Databases for Drug Dosage, 1/1/1995 - 12/31/1997, \$1,475,349 total. 20.NIH: National Center for Research Resources, Grant 1 RO1 RR11526. Population Pharmacokinetic Modeling on a Supercomputer. 8/1/96 - 7/31/99, \$790,617 total. 21.NIH: National Library of Medicine, Grant 1 RO1 LM05401, 07-09. New Decision Supports and Databases for Drug Dosage, 5/1/1998 - 4/30/01, \$1,471,104 total. 22.NIH National Institute for General Medical Sciences, Grant 9 RO1 GM65619 New Decision Supports and Databases for Drug Dosage 9/30/01 - 8/31/03, \$942,672

total.

23.NIH: National Institute for General Medical Studies, Grant 1-RO1-GM68968, Population Pharmacokinetic Modeling and Optimal Control, 6/15/03-7/31/11, \$1,838,000 total. 24.NIH Institute for Biomedical Imaging and Bioengineering, Grant 1-RO1-EB005803, Optimizing Coordinated Combination Drug Therapy, 7/1/06 – 4/30/10, \$2,421,899 total.

Inventions PATENTS

- 1. #4,308,866: Infusion Controlling Apparatus and Method. Filed November 2, 1978, Issued January 5, 1982.
- 2. #6,896,660 B2: Therapeutic Decisions Systems and Method using Stochastic Techniques. Filed June 19, 2002, Issued May 24. 2005.
- 3. #7,351,203 B2: Therapeutic Decisions Systems and Method using Stochastic Techniques. Filed January 18, 2005, Issued April 1. 2008.

G. <u>Invited Lectures</u> since 1985, Distinguished Invited Lectureships

- 1. Drug Receptor Relationships, Selection of Therapeutic Goals, and Adaptive Control of Pharmacokinetic Systems. FASEB Symposium on Strides in the Technology of Systems Physiology and the Art of Testing Complex Hypotheses, St. Louis, Mo., April 13-18, 1986.
- Factors Affecting Precise Control of Serum Drug Levels in Patients. First Symposium on Modelling and Control in Biomedical Systems, Venice, Italy, April 4-8, 1988.
- 3. "The Evaluation of Priors." Seminar, US Food and Drug Administration, Rockville, MD, November 20, 1988.
- 4. "Quantitative Approaches to Drug Dosage Adjustment" Annual Meetings, Student AAMC, Chicago, Ill., November 12, 1988.
- 5. "Pharmacology and Informatics". Meet the Experts Session, Seventh World Congress on Medical Informatics, Geneva, September 9, 1992.
- 6. "Adaptive Control in Drug Delivery". 2nd International Workshop on Pharmacodynamics of Anticancer Agents, Eze, France, September 17-19, 1992.
- 7. Speedie S, **Jelliffe RW**, Zegher I, Everberg S, and Evans S: Pharmaco Informatics: Drug - Related Aspects of Medical Informatics. An evening workshop at the 17th

Annual Symposium on Computer Applications in Medical Care, Washington DC, October 30 - November 3, 1993.

- Lenert L, Rutledge S, and Jelliffe RW: Mathematical Modeling in Clinical Decision Support: Evolution of the Paradigm. A Panel Discussion at the 17th Annual Symposium on Computer Applications in Medical Care, Washington DC, October 30 - November 3, 1993.
- "Therapeutic Drug Monitoring, Population and Patient-Specific Pharmacokinetic and Dynamic Modeling, and Individualization of Drug Dosage for Patient Care", Committee on Clinical Pharmacology, the University of Chicago, Pritzker School of Medicine, December 2, 1993.
- 10 Keynote Speaker "An Overview of Modeling and Simulation for "Goal-Oriented Drug Therapy", Society for Computer Simulation Western Multiconference, La Jolla CA, January 14 - 17, 1996.
- 11. "Clinical Pharmacokinetics and Adaptive Control", in Advanced Pharmacokinetics, a course under the coordination of Dr. Walter Wolf, USC School of Pharmacy, February 15, 1996.
- 12. "Logiciels d'Adaptation de Posologie et Decision Therapeutique", May 26, 1998, at a satellite workshop of the 46th Congres National des Pharmaciens des Hopitaux, Lyon, France, May 27-29, 1998.
- 13. "Theoretical Basis for Population Drug Modeling and Bayesian Adaptive Control of Drug Regimens" 46th Congres National des Pharmaciens des Hopitaux, Lyon, France, May 27-29, 1998.
- 14. "Parametric and Nonparametric Population Modeling: Strengths, Weaknesses, and Applications", US FDA, Rockville Md, Nov 4, 1998.
- 15. "Clinical Applications of Pharmacokinetics and Pharmacodynamics: What the Models are supposed to do in the Real World" US FDA, Rockville Md, Nov 4, 1998.
- 16. "Population PK/PD Modeling" Seminar with the Pharmacometrics group, US FDA, Rockville Md, Nov 5, 1998.
- 17. "Using Pharmacokinetic Models to Design Individualized Optimal Digoxin Therapy: A Kinetics Case Study with Human Interest", Biomedical Kinetics Workshop, American Heart Association Meetings, Dallas TX, Nov 7, 1998.
- 18. "Population PK/PD Modeling: Its Relationship to Optimal Dosage Regimens", Symposium on Pharmacokinetic/Pharmacodynamic Drug Development, Arlington Hilton, Arlington VA, March 26, 1999.

- "Population PK/PD Modeling Parametric Approaches" Advanced Pharmacokinetics, USC School of Pharmacy, Walter Wolf, Ph.D, Course coordinator, November 22, 1999.
- 20. Population PK/PD Modeling Nonparametric Approaches" Advanced Pharmacokinetics, USC School of Pharmacy, Walter Wolf, Ph.D, Course coordinator, November 29, 1999.
- 21. Plenary speech, "Individualized Therapeutics from the Bedside to the Bench and Back" at the 15th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology, Kota Bahru, Malaysia, May 9, 2000.
- "Using Models and Software to Understand and Optimize Clinical Therapy with Digitalis Glycosides". Session on Vascular Effects of Cardiac Glycosides, 29th Annual Meeting of the American College of Clinical Pharmacology, Chicago IL, September 18, 2000.
- 23. "New Advances in PK/PD Modeling and Optimal Drug Dosage", Third International Congress on "New Trends in Cancer Therapy", International Cancer Center, Rovigo, Italy, December 4, 2002.
- 24. "New Advances in PK/PD Modeling and Optimal Drug Dosage", a half-day seminar, School of Pharmacy, University of Turin, Italy, December 6, 2002.
- 25. A convener, with George Drusano, M.D., of a Symposium on The Use of Population Pharmacokinetics in Drug Development and Clinical Practice, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, September 17, 2003.
- Population PK/PD Modeling and Bayesian dosage individualization New Developments in Both. Symposium on The Use of Population Pharmacokinetics in Drug Development and Clinical Practice, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, September 17, 2003.
- 27. "Therapeutic Drug Management of Digoxin Therapy", in a workshop on "Interpreting Drug Assay Results and Advising on Dosage Alterations using Clinical Pharmacokinetic Software" at the Annual Meeting of the International Association for Therapeutic Drug Monitoring and Clinical Toxicology, Louisville KY, April 24, 2005, Daan Touw, Course Coordinator.
- 28. Course Coordinator, with Sander Vinks, Ph.D., and Michael Neely, M.D., of a Postcongress Two Day Workshop on "New Advances in Therapeutic Drug Monitoring and Individualized Drug Therapy", at the Annual Meeting of the International Association for Therapeutic Drug Monitoring and Clinical Toxicology, Louisville KY, April 29-30, 2005,
- 29. Plenary Lecture 1 "An Introduction to New Developments in PopulationPK/PD Modeling", First North-South Conference and Workshops on Pharmacogenetics,

Faculty of Pharmacy, Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor, Malaysia, December 12, 2005.

- Plenary Lecture 6 "Multiple Model Dosage Design and New Methods of Bayesian Updating of Individual PK/PD Models", First North-South Conference and Workshops on Pharmacogenetics, Faculty of Pharmacy, Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor, Malaysia, December 13, 2005.
- 31. "Multiple Model Bayesian Adaptive Control of Drug Dosage Regimens for Patient Care". 12th Annual Workshop on Advanced Methods of PK/PD Systems Analysis, Marina Del Rey, CA, June 15-16, 2007.
- 32. "Assay and Error Issues in Population Modeling and Therapeutic Drug Monitoring": Conference on Assay Errors and Validation, AAPS National Biotechnology Conference, San Diego CA, June 27, 2007.
- 33. "Maximally Precise Individualized Dosage Regimens fpor Optimal Patient Care" American College of Clinical Pharmacology, San Antonio. TX, October 13-15, 2009.
- 34. "Describing and Minimizing Patient Variability, Describing and Minimizing Intraindividual Variability, and Improving the Reporting of Laboratory Assay Results". Joint AAVPT/ECVPT/EAVPT Workshop on Bioequivalence Issues in Veterinary Medicine, Bolger Center, Potomac MD, June 27-30, 2010.
- 35. "Individualizing Drug Dosage Regimens for Patients". Summer Program on Semiparametric Bayesian Inference: Applications in Pharmacokinetics and Pharmacodynamics, Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, NC, 27709, July 15, 2010.

International Invited Lectureships

- 1. Computer Programs for Drug Dosing. Presented at the 3rd Annual Therapeutic Drug Monitoring Symposium, St. Vincent's Hospital, Sydney, Australia, October 1, 1985.
- 2. Managing Lidocaine Therapy. Presented at the course on Therapeutic Drug Monitoring, University of Salamanca School of Pharmacy, Salamanca, Spain, October 31, 1985.
- 3. Computer Assisted Drug Therapy, Anzhen Hospital, Beijing, PRC, September 10, 1986.
- 4. Computer Assisted Drug Therapy, Bethune Medical Center, Shijiazhuang, PRC, September 16, 1986.
- 5. Computer Assisted Drug Therapy. Union Hospital, Wuhan, PRC, September 18, 1986.
- 6. Computer Assisted Lidocaine Therapy. Guangzhou, PRC. September 22, 1986.

- 7. Optimizing Drug Therapy. Prince of Wales Hospital, Hong Kong, September 25, 1986.
- 8. PC Software for Study and Control of Pharmacokinetic Systems. Presented at the IUPHAR Meetings, Sydney, Australia, August 23-28, 1987.
- 9. Individualizing Drug Dosage Regimens for Patient Care. A seminar for the Department of Pharmacology at the National University Hospital, Singapore, August 31, 1987.
- 10. Individualizing Drug Dosage Regimens for Patient Care. A seminar at the School of Pharmacy, Universiti Sains Malaysia, Penang, Malaysia, September 2, 1987.
- 11. "Optimizing Digitalis and Lidocaine Therapy". Cardiology Department, Prince Alfred Hospital, Sydney, Australia, November 8, 1990.
- 12. "Modeling the Dynamic Behavior of Drugs" Department of Nuclear Medicine, Prince Alfred Hospital, Sydney, Australia, November 9, 1990.
- 13. "Planning, Monitoring, Adjusting, and Delivering Drug Dosage Regimens: Ist Pan-Pacific Asian Congress on Clinical Pharmacy, Penang, Malaysia, November 23-26, 1990.
- 14. "Therapeutic Drug Monitoring and the Individualization of Drug Dosage Regimens", Kuala Trengganu, Malaysia, October 2, 1991.
- 15. "Therapeutic Drug Monitoring and the Individualization of Drug Dosage Regimens", Kuantan, Malaysia, October 3, 1991.
- 16. "Therapeutic Drug Monitoring and the Individualization of Drug Dosage Regimens", Kuala Lumpur, Malaysia, October 4, 1991.
- 17. "Therapeutic Drug Monitoring and the Individualization of Drug Dosage Regimens", Johore Bharu, Malaysia, October 6, 1991.
- 18. "Adaptive Control of Drug Dosage Regimens", Faculty of Medicine, Jakarta, Indonesia, October 9, 1991.
- 19. "Computer Tools to Supplement Therapeutic Drug Monitoring". A 1/2 day seminar at the School of Medicine, Universitas Brawijaya, Malang, Indonesia, September 28, 1992.
- 20. "Therapeutic Drug Monitoring". A 1/2 day seminar at the Hospital Umum Daerah Dr. Soetomo, Surabaya, Indonesia, September 29, 1992.
- 21. "Optimizing Digitalis Therapy". A Seminar at the Bagian Kardiologi, Facultas Kedokteran, Universitas Indonesia, Jakarta, Indonesia, September 30, 1992.

- 22. "Individualizing Drug Dosage Regimens for Patients". Hospital Besar, Malacca, Malaysia, October 3, 1992.
- 23. "Individualizing Drug Dosage Regimens for Patients". Penang General Hospital, Penang, Malaysia, October 9, 1992.
- 24. "Computer Guides to Individualize Drug Dosage Regimens". Hospital Besar, Alor Setar, Malaysia, October 10, 1992.
- 25. "Effect of Assay Error Pattern on the Results of a Kinetic Analysis", Veterinary Drug Bioequivalence Workshop, Rockville MD, March 29-31, 1993.
- 26. "La Computadora como Apoyo en los Tratamientos Farmacologicos", Congreso Nacional de Aplicaciones de Informatica y Computacion en Medicina, "Infomedica 93", March 31 - April 3, 1993, Guadalajara, Mexico.
- 27. "Therapeutic Drug Monitoring", Penang General Hospital, Penang, Malaysia, September 21, 1993
- 28. "Therapeutic Drug Monitoring", Ipoh General Hospital, Ipoh, Malaysia, September 23, 1993.
- 29. "Therapeutic Drug Monitoring", Malacca General Hospital, Malacca, Malaysia, September 25, 1993.
- 30. "Therapeutic Drug Monitoring", Hospital Sultanah Aminah, Johore Bahru, Malaysia, September 26, 1993.
- 31. "Therapeutic Drug Monitoring", Queen Elizabeth Hospital, Kota Kinabalu, Malaysia, September 27, 1993.
- 32. "Pharmacokinetics and Optimal Drug Therapy in the Intensive Care Unit". Presented at the Stichting Symposium on Topics in Intensive Care, Amsterdam, The Netherlands, November 8-10, 1993.
- "Drug Monitoring to Optimize Therapy", September 7-8. 2004. World Conference on Magic Bullets (CELEBRATING PAUL EHRLICH'S 150th BIRTHDAY), September 9-11, 2004, Nürnberg, Germany.
- "Therapy of Endocarditis: Getting the Drug into the Vegetation" to the Cardiology Department, Medisch Spectrum Twente, Enschede, The Netherlands, December 6, 1994.
- 35. "Individualizing Drug Therapy for Patients: An Overview", Workshop on Applied Pharmacokinetics and Individualized Drug Therapy, Stichting Post Universitair Onderwijs Ziekenhuisfarmacie, Enschede, The Netherlands, December 7, 1994.
- 36. "Population Pharmacokinetic Modeling: Theory and Applications", Workshop on Applied Pharmacokinetics and Individualized Drug Therapy, Stichting Post

Universitair Onderwijs Ziekenhuisfarmacie, Enschede, The Netherlands, December 8, 1994.

- 37. "Modelo Poblacional Farmacokinetico" 2nd Congreso de Aplicaciones de Computacion e Informatica en Medicina, Guadalajara, Mexico, January 26, 1995.
- 38. "Individualizando Regimenes de Dosificacion de Medicamentos para Optimizar el Cuidado del Paciente", 2nd Congreso de Aplicaciones de Computacion e Informatica en Medicina, Guadalajara, Mexico, January 27, 1995.
- "Clinical and Laboratory Issues in Therapeutic Drug Monitoring, an Overview". Workshop on Applied Pharmacokinetics and Individualized Drug Therapy, Stichting Post Universitair Onderwijs Ziekenhuisfarmacie, Enschede, The Netherlands, September 13, 1995.
- 40. "Population Pharmacokinetic Modeling". Workshop on Applied Pharmacokinetics and Individualized Drug Therapy, Stichting Post Universitair Onderwijs Ziekenhuisfarmacie, Enschede, The Netherlands, September 14, 1995.
- 41. "Population Pharmacokinetic Models, Models of Bacterial Growth and Killing, and Multiple Model Design of Drug Dosage Regimens". Memorial Hospital - Child Health Center, Warsaw, Poland, September 18, 1995.
- 42. "Population Pharmacokinetic Models, Models of Bacterial Growth and Killing, and Multiple Model Design of Drug Dosage Regimens". Department of Clinical Pharmacology, Silesian University School of Medicine, Katowice, Poland, September 21, 1995.
- 43. "Model-Based, Goal-Oriented, Individualized Drug Dosage Regimens" University of Oslo School of Pharmacy, Oslo, Norway, June 17, 1996.
- 44. "Model-Based, Goal-Oriented, Individualized Drug Dosage Regimens" University of Tromso School of Medicine, Tromso, Norway, June 18, 1996.
- 45. "Model-Based, Goal-Oriented Individualized Drug Therapy" Haukeland Hospital, Bergen, Norway, November 11, 1996.
- 46. "Multiple Model Design of Individualized Drug Dosage Regimens" ADCAPT, La Passerelle, Lyon, France, May 25, 1998.
- 47. "Research Contributions to Clinical Pharmacy: Population PK/PD Modeling and Multiple Model Dosage Design", International Meeting on Clinical Pharmacy and Pharmaceutical Care, Barcelona, Spain, June 4-6, 1998.
- 48. "Optimal Methods for Studying Drug Behavior and Developing Individualized Dosage Regimens", in Die Zeit - eine Schlusselvariable in der Klinische Chemie, a Symposium of the Osterreichische Gesellschaft fur Klinische Chemie and the Medizinisch-Chemisches Institut und Preg-Laboratorium, Karl-Franzens-Universitat, Graz, Austria, June 9-10, 1998.

- 49. "Nonparametric Population PK/PD Modeling: Relationship to Optimal Drug Dosage Regimens," European Centre for Pharmaceutical Information workshop on Optimising the Role of Population Pharmacokinetics in Drug Development, St. James Court Hotel, London, UK, October 1, 1998.
- 50. "Relationship of Nonparametric Population PK/PD Modeling to Optimally Precise Design of Drug Dosage Regimens," ADCAPT workshop, Hospital Antoine Charial, Francheville, France, October 2, 1998.
- 51. "Relationship between Population Modeling and Optimal Drug Dosage for Patients", Fifth International Symposium on Drug Development, Faculty of Pharmacy, University of Montreal, Montreal Canada, October 21-22, 1998.
- 52. "Building Blocks for Pharmacokinetic and Dynamic Studies", Lyon Christmas School '98 - La Pharmacocinetique Clinique, Aide a la Therapeutique, given December 8 1998, at Hopital de la Croix Rousse, December 9 at Hopital Debrousse, and December 10, 1998, at the Hopital Geriatrique Antoine Charial, Lyon, France.
- 53. "Methods of Parametric and Nonparametric Population PK/PD Modeling", Lyon -Christmas School '98 - La Pharmacocinetique Clinique, Aide a la Therapeutique, given December 8 1998, at Hopital de la Croix Rousse, December 9 at Hopital Debrousse, and December 10, 1998, at the Hopital Geriatrique Antoine Charial, Lyon, France.
- 54. "Clinical Applications of PK/PD Methods in Dosage Planning and Adjustment", Lyon -Christmas School '98 - La Pharmacocinetique Clinique, Aide a la Therapeutique, given December 8 1998, at Hopital de la Croix Rousse, December 9 at Hopital Debrousse, and December 10, 1998, at the Hopital Geriatrique Antoine Charial, Lyon, France.
- 55. "Multiple Model Dosage Design for Optimal Precision in Therapy" Lyon Christmas School '98 - La Pharmacocinetique Clinique, Aide a la Therapeutique, given December 8 1998, at Hopital de la Croix Rousse, December 9 at Hopital Debrousse, and December 10, 1998, at the Hopital Geriatrique Antoine Charial, Lyon, France.
- 56. "Parametric and Nonparametric Population Modeling: both methods are needed to Develop Optimal Dosage Regimens" Novo Nordisk, Copenhagen, Denmark, June 25, 1999.
- 57. "Parametric and Nonparametric Population Models: Relationship to Optimal Dosage Regimens". PAWS-Population Analysis Group for Australia and New Zealand, School of Pharmacy, University of Queensland, Brisbane, Australia, January 31, 2000.
- 58. "Individualizing Drug Dosage Regimens" a seminar at the Faculty of Pharmacy, University of Ljubljana, Ljubljana, Slovenia, February 7, 2000.

- 59. "Population Modeling of Drug Behavior" a seminar at the Faculty of Electrical Engineering, University of Ljubljana, Ljubljana, Slovenia, February 7, 2000.
- 60. "Population PK/PD Modeling Optimal Procedures and Sequences of Software for Optimal Models". Division of Clinical Pharmacy, School of Pharmacy, University of Uppsala, Sweden, June 29, 2000.
- 61. "Optimal Techniques and Sequences in Population Modeling and in Patient Care", in the colloquium on "Variability in Drug Therapy: Prediction and Control through Effective Description and Estimation". Trezieme Rencontres des Entretiens Jacques Cartier, Universite de Montreal, Montreal, Canada, October 4-6, 2000.
- 62. "Clinical Applications of PK/PD: What TDM plus Modeling and Software, can do for you at the Bedside". Malaysian Society of Hospital Pharmacists, Penang, Malaysia, October 19, 2000.
- 63. "Optimizing Individual Drug Dosage" Division of Hematology Oncology, School of Medicine, National University of Singapore, Singapore, March 20, 2001.
- 64. "Population PK/PD Modeling" Division of Pediatrics, School of Medicine, National University of Singapore, Singapore, March 21, 2001.
- 65. "PK/PD Modeling and Applications to Individualized Drug Dosage Regimens" Centre for Drug Evaluation, Singapore, March 21, 2001.
- 66. "Introduction to Bayesian Individualization of Drug Dosage for Patient Care" Biomedical Students, National University of Singapore, Singapore, March 22, 2001.
- 67. "Nonparametric PK/PD Population Modeling: Applications to Optimal Drug Development", Pharmacia Development Centre, Singapore, March 22, 2001.
- 68. "Planning Protocols for Optimal Population PK/PD Analysis", Defence Medical Research Institute, Singapore, March 23, 2001.
- 69. "Managing PK/PD Variability and Individualizing Drug Therapy", Department of Pharmacology, School of Medicine, National University of Singapore, Singapore, March 23, 2001.
- 70. "Individualized Drug Therapy: What it means, How to do it, and what it has done". School of Pharmacy, University of Turin, Italy, June 5, 2001.
- 71. "Population PK/PD Modeling and Dosage Individualization in 2001", EPHAR 2001 Meeting of the Federation of the European Pharmacological Societies, Lyon, France, July 7, 2001.
- 72. "Iterative 2 stage Bayesian Population Modeling" Population Pharmacokinetic Week at the University of Torino, Italian Society of Pharmacology, Torino, Italy, March 19, 2002.

- 73. "The Mathematical Structure and Logical Foundations for Optimal Planning, Monitoring, and Adjustment on Individualized, Precise, Drug Dosage Regimens". Center for Evidence-Based Medicine, Aston University, Birmingham, UK, April 5, 2002.
- 74. "New Methods to Evaluate drug Bioavailability" Ninth Russian Scientific Congress on "Man and Drugs", Moscow, Russia, April 12, 2002.
- 75. "Modeling Drug Behavior in Forensic Applications" Division of Forensic Medicine and Toxicology, University of Oslo, Norway, June 11, 2002.
- 76. "Laboratory Drug Analysis and Assay Sensitivity" Division of Laboratory Medicine, Ullevaal Hospital, Oslo, Norway, June 13, 2002.
- 77. "Drug Dosing in Oncology Can we do it better?" Oncology Journal Club, Guy's Hospital, London, UK, December 10, 2002.
- 78. "New Advances in PK/PD Modeling and Optimal Drug Dosage", Department of Pharmacy, St. Thomas' Hospital, London, UK, December 10, 2002.
- 79. "Optimal Individualized Drug Therapy: What it means, How to do it, What it has done, What it will do". Society for Modeling and Simulation of Slovenia, Department of Electrical Engineering, School of Engineering, University of Ljubljana, Slovenia, February 10, 2003.
- Jelliffe R and Bondareva I: "Individualizatsia Rezhimov Dosirovania Lekarstvenni Preparatov s Uzkim Terapevticheskim Diapazonom". Session on "Farmakokineticheskoe i Biofarmatzevticheskie Issledovanya v Sozdanii, Sovertschenstvovanii I Primenenii Lekarstvenni Srelstv" Moscow Institute of Pharmacology, NIIF RAMN, April 10, 2003.
- 81. "Parametric and Nonparametric Population Modeling Approaches Their Relationship to Bioavailability Studies and to Optimal Dosage Regimens for Clinical Trials" Drug Information Association of Eastern Europe, Sofia, Bulgaria, May 5, 2003.
- 82. Seminar on Nonparametric Population Modeling and Multiple Model Dosage Design, Hospital Antoine Charial, Lyon, France, September 1, 2003.
- 83. "Therapeutic Drug Monitoring of Aminoglycoside Antibiotics", Faculty of Pharmacy, University of Kuwait, Bubyan Hall, Radisson SAS Hotel, Kuwait City, Kuwait, December 9, 2003.
- 84. "Therapeutic Drug Monitoring of Vancomycin", Faculty of Pharmacy, University of Kuwait, Bubyan Hall, Radisson SAS Hotel, Kuwait City, Kuwait, December 9, 2003
- 85. "Population Pharmacokinetic Modeling". A seminar at the Department of Pharmacy, Hospital Geriatrique Antoine Charial, Lyon, France, March 8, 2004

- 86. "Individual Dose Optimization: Why and How". Workshop on Population Pharmacokinetics and Individual Dose Optimization, German Cancer Research Center, University of Heidelberg, Germany, September 5, 2003. Published as an extended abstract in the International Journal of Clinical Pharmacology and Therapeutics, 42;(3), March 2004, pp.183-184.
- 87. "Multiple Model Dosage Design and its Clinical Applications", A seminar at the Department of Pharmacy, Hospital Geriatrique Antoine Charial, Lyon, France, March 9, 2004.
- 88. "New Developments in Parametric and Nonparametric Population Modeling", session on Statistics and Data Management, Drug Information Euromeeting, Prague, Czech Republic, March 12, 2004.
- 89. "The Multiple Model Method of Maximally Precise Individualized Dosage Regimens, in the MM-USCPACK Clinical Collection of Computer Programs", Pharmacokinetics Section, XI Annual Meeting of "Chelovek i Lekarstvo" (Man and Drugs), Moscow, Russia, April 20, 2004.
- 90. "New Developments in Population PK/PD Modeling" PK/PD Modeling Seminar, Annual Meeting of Chelovek and Lekarstvo, Moscow, Russia, April 20, 2005.
- 91. "Nonlinear Pharmacodynamic Models" PK/PD Modeling Seminar, Annual Meeting of Chelovek and Lekarstvo, Moscow, Russia, April 20, 2005.
- 92. Seminar on "New Developments in Population Modeling." Bayer Corp, Wuppertal, Germany, October 31, 2005.
- 93. Seminar on "Clinical applications of Multiple Model Dosage Design," Bayer Corp, Wuppertal, Germany, November 2, 2005.
- 94. "Discussion générale Contrôle adaptatif optimal / applications cliniques" with Pascal Maire, Ph.D., Hospices Civils de Lyon, in the Conference on Modéliser la complexité bioclinique pour contrôler la thérapeutique, Universite Lyon-Sud, Lyon, France, November 3, 2005.
- 95. "Model-Based, Goal-Oriented Optimal Individualized Drug Therapy", in the Conference on "Modéliser la complexité bioclinique pour contrôler la thérapeutique", Universite Lyon-Sud, Lyon, France, November 3, 2005.
- 96. "Population pharmacokinetic /dynamic modeling: basic concepts," Department of Clinical Chemistry, University Hospital, Goettingen, Germany, November 8, 2005.
- 97. "Optimal individualized drug therapy with antiinfectives," Department of Clinical Chemistry, University Hospital, Goettingen, Germany, November 9, 2005.
- 98. "Drug dosing in oncology can we do it better?", Department of Clinical Chemistry, University Hospital, Goettingen, Germany, November 10, 2005.
- 99. "New Developments in Population Modeling and Dosage Individualization". A seminar at the Hospital Antoine Charial, Lyon, France, May 29, 2006.

- 100. "New Developments in Population PK/PD Modeling, Multiple Model dosage design, and new methods of BAYESIAN updating of individual PK/PD models – Application to Clinical TDM". A plenary lecture at the 1st Kuwait Pharmaceutical Sciences Conference & 10th Conference of Scientific Society of Colleges of Pharmacy in the Arab World, December 11-13, 2006.
- 101. "Techniques for Planning and Optimizing Antifungal Therapy" a seminar with William Hope, MD, University of Manchester, England, June 8, 2007.
- 102. "Planning Methods for Optimizing the Prediction (and Control) of Serum Concentrations of Aminoglycosides and Vancomycin", a seminar with Alison Thomson, Ph.D., University of Strathclyde, Glasgow, Scotland, June 11, 2007.
- 103. "Optimizing Adaptive Management of Aminoglycoside and Vancomycin Therapy", a seminar at St. Boniface Hospital, University of Winnipeg, Canada, July 20, 2007.
- 104. "Pharmacometric Tools to Optimize Precise Drug Therapy", a seminar at Centre Hospitalier Cantonal Vaudois, Lausanne, Switzerland, Sept 30, 2008.
- 105. "Introduction and Overview into PK/PD for Patients", Ehrlich II meeting, Nuremberg, Germany, Oct 3, 2008.
- 106. "Overview and Comparison of Parametric and Nonparametric Estimation Techniques", Ehrlich II meeting, Nuremberg, Germany, Oct 3, 2008.
- 107. "Clinical Problems Solving them using PK/PD Adaptive Control", Ehrlich II meeting, Nuremberg, Germany, Oct 3, 2008.
- 108. "Optimizing Cardiovascular Therapy", Ehrlich II meeting, Nuremberg, Germany, Oct 3, 2008.
- 109. "Therapeutics Optimizing Learnoing about the Patient while Treating Him.Her at the Same Time", Ehrlich II meeting, Nuremberg, Germany, Oct 3, 2008.
- 110. "Nonparametric Population PK/PD Tools for Estimation and Patient Care", Ehrlich II meeting, Nuremberg, Germany, Oct 3, 2008.
- 111. "Pharmacometric Tools to Optimize Precise Drug Therapy", Ehrlich II meeting, Nuremberg, Germany, Oct 3, 2008.
- 112. "New Protocols for Continuous Intravenous Vancomycin Therapy", Ehrlich II meeting, Nuremberg, Germany, Oct 3, 2008.
- 113. "A Review of Pharmacokinetics and their Application to Optimize Patient Therapy". A seminar to pharmaco syudents and residents at the Hospital Antoine Charial, Francheville, France, October 6, 2008.
- 114. "Pharmacometric Tools to Control PK/PD Models and Optimize Patient Care". A seminar to CERN, Universite Lyon Sud, October 7, 2008.

- 115. "A Library of Tools for Maximally Precise Drug Therapy" Hospital Infantil de Mexico, Mexico City, DF, Mexico, November 20, 2008.
- 116. "Maximally Precise Design of Dosage Regimens of Toxic Drugs", Innstituto Nacional de Enfernedades Respiratorias, Mexico City, DF, Mexico, November 21, 2008.
- 117. "Pharmacometric Tools to Optimize the Management of Individualized Drug Therapy", Meeting on Therapeutic Drug Monitoring and Clinical Toxicology, Kuwait University, Kuwait, Feb 15-18, 2009.
- 118. "Clinical Applications and Case Studies in Optimal Individsualized Drug Therapy", Meeting on Therapeutic Drug Monitoring and Clinical Toxicology, Kuwait University, Kuwait, Feb 15-18, 2009.
- 119. "Optimizing the Precision of Drug Therapy", two seminars at the Department of Phamacy, Hospital Antoine Charial, Francheville, France, June 17-18, 2009.
- 120. "Optimizing Individualized Drug Dosage Regimens for Patient Care" International Associationfor Therapeutic Drug Monitoring and Clinical Toxicology, Montreal, QE, October 5, 2009.
- 121. "Clinical Pharmacology at the Bedside with a Laptop Computer" a roundtable discussion at the International Association for Therapeutic Drug Monitoring and Clinical Toxicology, Montreal, QE, October 5, 2009.
- 122. "Pharmacometric Tools to Optimize Control of PK/PD Models for Maximally Precise Drug Therapy and Patient Care". Plataforma de Oncología, USP Hospital San Jaime SAU, Torrevieja (Alicante) Spain, November 17, 2009.
- 123. "Introduction to the Nonparametric Approach", an open meeting at the Simcyp Co, Sheffield, UK, November 19, 2009.
- 124. "Application of Bayesian approaches in Patient Care and TDM", an open meeting at the Simcyp Co, Sheffield, UK, November 19, 2009.
- 125. "Optimizing Individualized Drug Dosage Regimens for Patient Care", Catalan Society of Hospital Pharmacists, Barcelona, Spain, November 24, 2009.
- 126. "Modeling, Simulation, and Control in Practical Patient Care", III Jornadas de Modelizacion y Simulation en Biomedicina, Barcelona, Spain, November 27, 2009.
- 129. "Individualizing Drug Dosage Regimens". Newborn ICU, Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland, June 16, 2010.
- "Tools for use in Individualizing Drug Dosage Regimens in Newborns". Newborn ICU, Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland, June 17, 2010.

131. "Individualizing Dosage Regimens of Potentially Toxic Drugs", Department of Hematology and Oncology, Jagellonian University of Krakow, Poland, June 22, 2010.

Other Invited Lectureships

- 1. Optimizing Drug Therapy with Computer Software. HealthCom '86, Las Vegas, Nevada, January 30 February 2, 1986.
- 2. Application of Adaptive Control in Clinical Settings. Tenth Annual Symposium on Computer Applications in Medical Care, Washington, D.C., October 25-26, 1986, in the Proceedings of the Conference, pp 61-62.
- 3. "Computer Assistance for Drug Dosage Regimens" Basic Science Sessions, National Medical Association Annual Meeting, Los Angeles, CA, July 31, 1988.
- 4. "Planning, Monitoring, and Adjusting Drug Dosage Regimens" Medical Grand Rounds, Rancho Los Amigos Hospital, Downey, CA., September 29, 1988.
- 5. "Planning, Monitoring, and Adjusting Drug Dosage Regimens" Medical Grand Rounds, Hahnemann University School of Medicine, Philadelphia, PA., November 9,1988.
- 6. "Adaptive Control of Drug Therapy" University of Maryland School of Medicine, Baltimore, MD, November 10, 1988.
- 7. "Smart Infusion Apparatus" IVAC Corp, San Diego, CA. March 7, 1989.
- 8. Digitalis and Lidocaine Therapy" Seminar, St. Vincent's Hospital, Los Angeles, CA, April 7, 1989.
- 9. "Management of Digitalis Toxicity" Seminar, Marriott Hotel, San Diego, CA, May 17, 1989.
- 10. "Computer Assistance for Drug Dosage" Grand Rounds, St. Vincent's Hospital, Los Angeles, CA, June 6, 1989.
- 11. "PC Software for Guidance in Managing Drug Dosage Regimens" Software Fair, California Society of Hospital Pharmacists Annual Meeting, Anaheim, CA. October, 27, 1989.
- 12. "Non Pharmacokinetic Factors in the Clinical Environment and their Effect on Control of Serum Drug Levels" California Society of Hospital Pharmacists Annual Meeting, Anaheim, CA, October 28, 1989.
- 13. "Managing Dosage Regimens of Aminoglycosides and Other Drugs, Medical Grand Rounds, Harbor General Hospital, Torrance, CA, March 2, 1990.
- 14. "Individualizing Drug Therapy an Overview". Cleveland Clinic, Cleveland, Ohio, March 19, 1990.

- 15. "Individualizing Drug Therapy Application to Digitalis and Lidocaine". Santa Clara Medical Center, San Jose, CA., March 22, 1990.
- 16. "Individualizing Drug Dosage Regimens Part 1" Cleveland Clinic, Cleveland, Ohio, February 21, 1991.
- 17. "Individualizing Drug Dosage Regimens Part 2" Cleveland Clinic, Cleveland, Ohio, March 21, 1991.
- "Setting Up a Pharmacokinetic Drug Therapy Consulting Service", H. Lee Moffitt Cancer Center, University of South Florida School of Medicine, Tampa, Florida, April 18, 1991.
- 19. "Pharmacokinetic Modeling", Department of Pharmacology, University of South Florida School of Medicine, Tampa Florida, April 18, 1991.
- "Individualizing Drug Dosage Regimens: Applications to Cancer Chemotherapy and Bone Marrow Transplantation". Grand Rounds, Bone Marrow Transplant Service, H. Lee Moffitt Cancer Center, University of South Florida School of Medicine, Tampa Florida, April 19, 1991.
- "Individualizing Drug Dosage Regimens: Application to Pediatric Therapeutics". Medical Grand Rounds, Texas Tech School of Medicine, Amarillo, Texas, June 12, 1991.
- 22. "Optimizing Individualized Drug Therapy: Application to Cardiovascular Drugs, Antibiotics, Cancer, and AIDS". Medical Grand Rounds, University of New Mexico School of Medicine, Albuquerque, NM, June 13, 1991.
- 23. "Individualizing Dosage Regimens of Drugs", Medical Grand Rounds, Tulane University School of Medicine, New Orleans, LA, October 23, 1991.
- 24. "Population Pharmacokinetic Modeling", a seminar to the Department of Pharmacology, Tulane University School of Medicine, New Orleans, LA, October 23, 1991.
- 25. "Adaptive Control of Drug Dosage Regimens", Xavier University School of Pharmacy, New Orleans, LA, October 24, 1991.
- 26. "Antiarrhythmic Drugs: Digoxin and Lidocaine". Clinical Cardiology Conference, University of Texas Medical Branch, Galveston, TX, October 28, 1991.
- 27. "Individualizing Aminoglycoside and Vancomycin Therapy", Infectious Diseases Special Case Conference, University of Texas Medical Branch, Galveston, TX, October 29, 1991.

- 28. "Patient Examples of Adaptive Control of Therapy for Commonly Used Drugs", Medical Residents' Conference, University of Texas Medical Branch, Galveston, TX, October 29, 1991.
- 29. "The History of Pharmacokinetics", a seminar to the Department of Pharmacy, University of Texas Medical Branch, Galveston, TX, October 29, 1991.
- 30. "Modeling Drug Effects Upon Cells", Pediatric Grand Rounds, University of Texas Medical Branch, Galveston, TX, October 30, 1991.
- 31. "Planning, Monitoring, and Adjusting Dosage Regimens of Digoxin for Patients", a five hour seminar for graduate students at the School of Pharmacy, University of Pittsburgh, PA, April 6, 1993.
- 32. "A Case of High Serum Digoxin Levels", a CPC for the Department of General Internal Medicine, LAC-USC Medical Center, August 24, 1993.
- 33. "Therapeutic Drug Monitoring", Medical Grand Rounds, Los Angeles County USC Medical Center, Los Angeles, California, October 13, 1993.
- 34. "Drug Dosage in Renal Failure" Renal Grand Rounds, LAC/USC Medical Center, July 7, 1994.
- 35. "Individualizing Drug Therapy in Geriatric Patients" Geriatrics Seminar, USC University Hospital, December 12, 1994.
- 36. "Long Term Antibiotic Therapy in Renal Patients", Renal Grand Rounds, LAC/USC Medical Center, December 15, 1994.
- 37. Internal Medicine Board Review Talk: Clinical Pharmacology. LAC/USC Medical Center, February 16, 1995.
- 38. "New Directions in Therapeutic Drug Monitoring" Pathology Grand Rounds, Long Beach VA Hospital, March 20, 1995.
- 39. "New Directions in Therapeutic Drug Monitoring" Medical Grand Rounds, Rancho Los Amigos Hospital, Downey, California, July 13, 1995.
- 40. "Individualizing Drug Therapy in the Elderly". Medical Grand Rounds, LAC/USC Medical Center, February 14, 1996.
- 41. "Optimizing Digoxin Therapy" Long Beach Community Hospital, Long Beach CA, June 19, 1997.
- 42. "Individualizing Drug Therapy for Elderly Patients". Geriatric Medicine Seminar, USC University Hospital, July 10, 1997.
- 43. "Individualizing Drug Therapy in the Elderly" Arcadia Methodist Hospital, Arcadia CA, October 23, 1997.

- 44. "New Developments in Optimizing Drug Dosage Regimens", Symposium on Pharmacokinetic/Pharmacodynamic Drug Development, Arlington Hilton, Arlington VA, March 26, 1999.
- 45. "Target-Oriented, Model-Based approaches to Optimal Drug Dosage Regimens", USC School of Pharmacy, April 22, 1999.
- 46. "Digitalis Therapy Patients with Sinus Rhythm" Therapeutics VI, USC School of Pharmacy, with Agneta Hurst, Pharm. D., Course coordinator, January 13, 2000.
- 47. "Digitalis Therapy Patients with Atrial Fibrillation" Therapeutics VI, USC School of Pharmacy, with Agneta Hurst, Pharm. D., Course coordinator, February 22, 2000.
- 48. "Optimal Methods and Sequences in Population Pharmacokinetic and Dynamic Modeling" Amgen Corp., Thousand Oaks CA, December 6, 2000.
- 49. "Digitalis Therapy in Congestive Heart Failure": USC School of Pharmacy, January 23, 2001.
- 50. "Drug Dosage in Renal Insufficiency and Failure" Renal Grand Rounds, LA County-USC Medical Center, February 8, 2001.
- 51. "Digitalis Therapy in Atrial Fibrillation": USC School of Pharmacy, February 15, 2001.
- 52. "Optimal Techniques and Sequences for Population Modeling of Bioavailability", Conference on Bioavailability and Bioequivalence, February 27 & 28, 2001, Washington, DC.
- 53. "Individualizing Dosage Regimens of Toxic Drugs": Surgical Grand Rounds, LA County-USC Medical Center, March 2, 2001.
- 54. "Individualizing Drug Dosage Regimens for Patients" USC Association of Students in Biomedical Engineering, USC Main Campus, March 26, 2001.
- 55. "PK/PD Modeling: Applications at the Bedside" Research seminar, Research Statistics Unit, Glaxo-Smith-Kline Company, Collegeville PA, March 29, 2001.
- 56. "Optimizing the Design of Individualized Drug Dosage Regimens for Maximal Precision". March 30, 2001, at the Institute for International Research conference on Clinical PK/PD for Drug Development, March 29 and 30, 2001, Park Hyatt Hotel, Philadelphia PA.
- 57. A Lunch Roundtable on "Population PK/PD Modeling: Optimal Methods and Clinical Applications." Seventh International Congress of Therapeutic Drug Monitoring and Clinical Toxicology, Washington, DC, September 5, 2001.
- 58. "Population PK/PD Modeling Parametric Approaches", in Pharmaceutical Sciences 662 Advanced Pharmacokinetics, USC School of Pharmacy, October 16, 2001.

- "Population PK/PD Modeling Nonparametric Approaches", in Pharmaceutical Sciences 662 – Advanced Pharmacokinetics, USC School of Pharmacy, October 23, 2001.
- 60. "Individualizing Drug Dosage in Renal Disease", Renal Grand Rounds, LAC-USC Medical Center, October 25, 2001.
- 61. "New Techniques for Optimal Individualization of Drug Dosage Regimens" Department of Pharmacology, Undergraduate Pharmacology Curriculum, SUNY Stony Brook, January 29, 2002.
- 62. "Strengths and Weaknesses of Parametric and Nonparametric Population Modeling, and their Clinical Applications", a joint seminar with the Departments of Pharmaceutical Sciences and the Department of Pharmacy Practice, SUNY Buffalo, New York, December 12, 2002.
- 63. "Parametric and Nonparametric Population Modeling Approaches Their Relationship to Bioavailability Studies and to Optimal Dosing Regimens." At a conference by Barnett International on Implementing Best Practices to Ensure Compliance for Dissolution, Bioequivalence, and Bioavailability, Park Hyatt Hotel -Philadelphia, PA, February 3, 2003.
- 64. "Individualization of Drug Dosage-What it has Done, and What it Can Do". A seminar at the Department of Clinical Pharmacology, Thomas Jefferson University School of Medicine, Philadelphia PA, February 3, 2003.
- 65. "Vancomycin Dosing in Renal Failure", Renal Grand Rounds, USC School of Medicine, March 17, 2004.
- 66. "Population PK/PD Modeling and Bayesian dosage individualization New Developments in both". University of Colorado School of Pharmacy, Denver, November 17, 2004.
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- 186. **Jelliffe R,** Schumitzky A, Bayard D, Leary R, Thomson A, Botnen A, and Neely M: Pharmacometric Tools to Optimize Drug Therapy. A poster presentation at the Quantitative and Systame Biology Workshop, Lister Hill Auditorium, Bethesda MD, September 25-26, 2008.
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- 188. Jelliffe R, Schumitzky A, Bayard D, Leary R, Van Guilder M, Neely M, Goutelle S, Bustad A, Khayat M, and Thomson A: The MM-USCPACK software for nonparametric adaptive grid (NPAG) population PK/PD modeling, and the MM-USCPACK clinical software for individualized drug regimens. A software presentation at the the Population Approach Group Europe meeting, June 24-28, 2009, St. Petersburg, Russia.
- 189. **Jelliffe R,** Schumitzky A, Bayard D, Leary R, Thomson A, Botnen A, Khayat M, and Neely M: Optimal Stochastic Control Of Drug Dosage Regimens. A poster presentation at the Population Approach Group Europe meeting, June 24-28, 2009, St. Petersburg, Russia.
- 190. **Jelliffe R**, Schumitzky A, Bayard D, Neely M, Van Guilder M, Leary R, Botnen A, Khayat M, Thomson A, and Bustad A.: Population Models for Maximally Precise Dosage Regimens, with Advanced Methods for Individual Patient Bayesian Estimation. A poster presentation at the AAPS Meetings, Convention Center, Los Angeles CA, November 17, 2009.
- 191. **Jelliffe R,** Neely M., Ozdemir V: Pharmacogenomics and Individualized Dosage Regimens. A poster presentation at the Population Approach Group Europe, Berlin, Germany, June 8-12, 2010.
- 192. Neely M, Reed M, and **Jelliffe R:** High-dose Amoxacillin pharmacokinetics (PK) and pharmacodynamics (PD) in children. A poster presentation at the Population Approach Group Europe, Berlin, Germany, June 8-12, 2010.
- 193. Goutelle S, Bourguinon L, **Jelliffe R,** Conte J, and Maire P: Mathematical Modeling of Pulmonary Tuberculosis Therapy. Development of a first prototype model with
Rifampin. An oral presentation at the Population Approach Group Europe, Berlin, Germany, June 8-12, 2010.

194. **Jelliffe R,** Schumitzky A, Bayard D, Leary R, Van Guilder M, Neely M, Gooutelle S, Bustad A, Khayat M, and Thonson A: The MM-USCPACK software for nonparametric adaptive grid (NPAG) population PK/PD modeling, and the MM-USCPACK clinical software for individualized drug regimens. A software demonstration at the Population Approach Group Europe, Berlin, Germany, June 8-12, 2010.

Poster Sessions

1. see above.

Panels

1. see above

Audio/Video VIDEOTAPES

- 1. **Jelliffe RW**, Rodman JH, and Foster T: Pharmacokinetics: The New Clinical Reality. 60 min. Hoffman La-Roche, 1980.
- 2. **Jelliffe RW**: Planning, Monitoring, and Adjusting Drug Therapy, Part I, 60 min USC School of Pharmacy, January 1981.
- 3. **Jelliffe RW**: Planning Monitoring, and Adjusting Drug Therapy, Part II, 60 min USC School of Pharmacy, February 1981.
- 4. **Jelliffe RW**: Planning, Monitoring, and Adjusting Drug Therapy, Part III, 60 min, USC School of Pharmacy, June 1981.
- 5. **Jelliffe RW**: Planning, Monitoring, and Adjusting Drug Therapy, Part IV, 60 min, USC School of Pharmacy, June 1981.
- 6. **Jelliffe RW**: Planning, Monitoring, and Adjusting Drug Dosage Regimens. Part 1: 55 min, Indiana University, Medical Education Resources Program, Indianapolis, Indiana, November 11, 1983.
- 7. **Jelliffe RW**: Planning, Monitoring, and Adjusting Drug Dosage Regimens. Part 2: 39 min. Indiana University, Medical Education Resources Program, Indianapolis, Indiana, November 11, 1983.
- 8. **Jelliffe RW**: Introduction to Pharmacokinetics, Calculation of Creatinine Clearance without a Urine Specimen. Adaptive Control of Pharmacokinetic Systems. 120 min. September 10, 1985.
- 9. **Jelliffe RW**: Adaptive Control of Aminoglycoside and Digitalis Therapy. Managing and Avoiding Digitalis Toxicity. 180 min, September 10, 1985.

- 10. **Jelliffe RW**: Adaptive Control of Lidocaine and Procainamide Therapy, and "Smart" Infusion Apparatus. 60 min, September 10, 1985.
- Jelliffe RW: Introduction a la Farmacocinetica. Calculo del Aclaramiento de Creatinina sin Muestras de Orina. Control Adaptado de Sistemas Farmacocineticas. 120 min, September 19, 1985.
- Jelliffe RW: Control Adaptado de la Therapia con Aminoglycosidos y con Digitalicos. Tratando y Evitando la Toxicidad con Digitalicos, 180 min, September 19, 1985.
- 13. **Jelliffe RW**: Control Adaptado de la Terapia con Lidocaina y Procainamida, y Aparato "Smart" para Perfusion. 60 min, September 19, 1985.

Other activity.

SCIENTIFIC EXHIBITS AT MEETINGS

- 1. **Jelliffe RW**, Buell J, Kalaba R, Sridhar R, and Rockwell R: Computer Assistance for Digitalis Dosage - A Telephone Service for Physicians. American College of Chest Physicians, Los Angeles, California, October 25-29, 1970.
- 2. Brooker G and **Jelliffe RW**: Determination of Cardiac Glycosides in Serum by Enzymatic Isotope Displacement. American College of Chest Physicians, Los Angeles, California, October 25-29, 1970.
- 3. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, and Rockwell R: Computer Assistance and Nomograms for Digitalis Dosage. American Heart Association Meetings, 44th Scientific Sessions, Anaheim, California, November 11-14, 1971.
- 4. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, and Rockwell R: Computer Assistance and Nomograms for Digitalis Dosage. IX Interamerican Congress of Cardiology, American Heart Association, San Francisco, California, April 23-29, 1972.
- 5. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, and Rockwell R: Computer Assistance and Nomograms for Digitalis Dosage. 45th Scientific Sessions, American Heart Association, Dallas, Texas, November 16-19, 1972.
- 6. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, and Rockwell R: Computer Programs for Drug Dosage Regimens. 26th Annual Conference on Engineering in Medicine and Biology, Minneapolis, Minnesota, September 30 - October 4, 1973.
- 7. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, and Rockwell R: Computer Assistance and Nomograms for Digitalis Dosage. 46th Annual Scientific Sessions, American Heart Association, November 8-11, 1973, Atlantic City, New Jersey.

- 8. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, and Rockwell R: Computer Programs for Drug Dosage Regimens. 8th Annual Meeting of the American Society of Hospital Pharmacists, December 10-12, 1973, New Orleans, Louisiana.
- 9. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, and Rockwell R: Computer Programs for Drug Dosage Regimens. 27th Clinical Convention, American Medical Association, December 1-4, 1973, Anaheim, California.
- 10. **Jelliffe RW**, Goicoechea FJ, and Wyman MG: Computer Programs for Oral and IV Procainamide Dosage and Infusion Regimens. 23rd Annual Scientific Sessions, American College of Cardiology, New York, New York, February 11-14, 1974.
- 11. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, Rockwell R, Goicoechea FJ, and Wyman MG: Computer Programs for Drug Dosage Regimens. 103rd Annual Scientific Assembly California Medical Association, San Francisco, California, March 2-6, 1974
- 12. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, Rockwell R, Goicoechea FJ, and Wyman MG: Computer Programs for Drug Dosage Regimens. Annual Meeting of the California Pharmaceutical Association, San Francisco, California, May 12-15, 1974.
- 13. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Sridhar R, Rockwell R, Goicoechea FJ, and Wyman MG: Computer Programs for Drug Dosage Regimens. American Association of Critical Care Nurses, New Orleans, Louisiana, May 29-June 1, 1974.
- 14. **Jelliffe RW**, Buell J, Kalaba R, Sridhar R, Knight R, Rockwell R, Ivler D, Goicoechea FJ, Wyman MG, and Tuey D: Computer Programs for Improved Drug Dosage. American Academy of Family Physicians, 26th Annual Scientific Assembly, Los Angeles, California, October 14-17, 1974.
- 15. **Jelliffe RW**, Buell J, Kalaba R, Rodman JH, Sridhar R, Knight R, Rockwell R, Ivler D, Goicoechea FJ, Wyman MG, and Tuey D: Computer Programs for Drug Dosage Regimens. American Medical Association, Portland, Oregon, November 30 -December 3, 1974.
- 16. **Jelliffe RW**, Brooker G, Buell J, Kalaba R, Rodman JH, Sridhar R, Knight R, Rockwell R, Ivler D, Goicoechea FJ, Wyman MG, and Tuey D: Computer Programs for Drug Dosage Regimens. 9th Annual American Society of Hospital Pharmacists Midyear Clinical Meeting, Bal Harbour, Florida, December 7-11, 1974.
- Jelliffe RW, Buell J, Kalaba R, Rodman JH, Sridhar R, Knight R, Rockwell R, Ivler D, Goicoechea FJ, Wyman MG, and Tuey D: Improved Lidocaine Infusion Regimens. 24th Annual Scientific Session, American College of Cardiology, Houston, Texas, February 10-13, 1975.
- 18. **Jelliffe RW**, Buell J, Kalaba R, Rodman JH, Sridhar R, Knight R, Rockwell R, Ivler D, Goicoechea FJ, Wyman MG, and Tuey D: Computer Programs Drug Dosage

Regimens for Cardiology and Pulmonary Physiology. 56th Annual Session, American College of Physicians, San Francisco, California, April 7-10, 1975.

- 19. **Jelliffe RW**, Buell J, Kalaba R, Rodman JH, Ivler D, Goicoechea FJ, and Wyman MG: Computer Programs for Drug Dosage Regimens. 10th Annual Meeting of the American Society of Hospital Pharmacists, Washington, D.C., December 7-11, 1975.
- 20. **Jelliffe RW**, Crawford DW, and Wagers WP: Computer Programs for Cardiac Laboratories. 57th Annual Session of the American College of Physicians, Philadelphia, Pennsylvania, April 5-8, 1976.
- 21. **Jelliffe RW**, Buell J, Kalaba R, Rodman JH, Ivler D, Goicoechea FJ, and Wyman MG: Computer Programs for Drug Dosage Regimens. 11th Annual Midyear Clinical Meetings of the American Society of Hospital Pharmacists, Anaheim, California, December 5-9, 1976.
- 22. Crawford DW and **Jelliffe RW**: Time-Shared Computer Programs for the Cardiac Catheter Laboratory, American College of Cardiology, Las Vegas, Nevada, March 7-10, 1977.
- 23. **Jelliffe RW**, Schumitzky A, Tuey D, Crone JD, Rodman JH, and Wyman MG: Computer Programs for Improved Lidocaine (L) and Procainamide (P) Therapy. American College of Cardiology, Las Vegas, Nevada, March 7-10, 1977.
- 24. **Jelliffe RW**, Schumitzky A, Rodman JH, and Crone JD: Computer Programs for Therapy with Cardiac Drugs and Aminoglycosides, for the Cardiopulmonary Laboratory, and for Decision Analysis. American College of Physicians, 58th Annual Session, Dallas, Texas, April 18-21, 1977.
- 25. Crawford DW and **Jelliffe RW**: Time-Shared Computer Programs for the Cardiac Catheter Laboratory. 50th Annual Session of the American Heart Association, Miami Beach, Florida, November 28-December 1, 1977.
- 26. **Jelliffe RW**, Schumitzky A, Rodman JH, Crone JD, and Wyman MG: Programs for Improved Lidocaine and Procainamide Therapy. 50th Annual Scientific Sessions of the American Heart Association, Miami Beach, Florida, November 28-December 1, 1977.
- 27. **Jelliffe RW**, Schumitzky A, Rodman JH, and Crone JD: Computer Programs for Feedback Control of Drug Dosage Regimens. 59th Annual Session of the American College of Physicians, Boston, Massachusetts, April 17-20, 1978.
- 28. **Jelliffe RW**, Schumitzky A, Rodman JH, and Crone JD: Computer Programs for Adaptive Control of Drug Dosage Regimens. 31st Annual Conference on Engineering in Medicine and Biology, Atlanta, Georgia, October 21-25, 1978.
- 29. **Jelliffe RW**, Schumitzky A, Rodman JH, D'Argenio DZ, and Forrest A: Computer Programs for Adaptive Control of Drug Dosage Regimens. 32nd Annual ACEMB meetings, Denver, Colorado, October 6-10, 1979.

- 30. **Jelliffe RW**, Rodman JH, Schumitzky A, and D'Argenio DZ: Computer Programs for Feedback Control of Drug Dosage Regimens. 52nd Scientific Sessions of the American Heart Association, Anaheim, California, November 12-15, 1979.
- 31. **Jelliffe RW**, Schumitzky A, Rodman JH, D'Argenio DZ, and Forrest A: Computer Programs and Programmable Calculators for Adaptive Control of Drug Dosage Regimens. 14th Annual Midyear Clinical Meeting of the American Society of Hospital Pharmacists, Las Vegas, Nevada, December 2-6, 1979.
- 32. **Jelliffe RW**, Schumitzky A, Rodman JH, D'Argenio DZ, and Forrest A: Computer Programs for Adaptive (Feedback) Control of Drug Dosage Regimens. 53rd Annual Scientific Sessions American Heart Association, Miami Beach, Florida, November 17-20, 1980.
- 33. Nicholson WF and **Jelliffe RW**: Automatic Infusion of Computer-Assisted Lidocaine Infusion Regimens. 17th Annual Meeting and Exhibit of the Association for the Advancement of Medical Instrumentation, San Francisco, California, May 9-12, 1982.
- 34. **Jelliffe RW**: Computer Programs for Adaptive Control of Dosage Regimens and Automated Delivery of Intravenous Lidocaine Infusions. 17th Annual Midyear Clinical Meeting of the American Society of Hospital Pharmacists, Los Angeles, California, December 5-9, 1982.
- Nicholson WF and Jelliffe RW: Computer Programs and "Smart" Infusion Apparatus for Adaptive Control and Automated Delivery of Drug Dosage Regimens.
 18th Annual Meeting and Exhibit of the Association for the Advancement of Medical Instrumentation. Dallas, Texas, March 22-25, 1983.
- 36. **Jelliffe RW** and Nicholson WF: M.A.P. Bayesian Computer Programs for Feedback Control of Digitalis and Procainamide Therapy, and for Automated Lidocaine Infusion Regimens. 56th Scientific Sessions of the American Heart Association, Anaheim, California, November 14-17, 1983.
- 37. **Jelliffe RW** and Nicholson WF: Computer Programs for Planning, Monitoring, and Adjusting Drug Dosage Regimens. Computers in Health Care, Sacramento, California, September 13-16, 1984.
- 38. Jelliffe RW, Schumitzky A, Katz D, D'Argenio DZ, Milman M, Nicholson W, Iglesias T, Hurst A, Gilman TM: Timeshared Computer Programs and "Smart" Infusion Devices for Planning, Monitoring, Adjusting, and Delivering Optimal Drug Dosage Regimens. The 37th Annual Conference on Engineering in Medicine and Biology, Los Angeles, California, September 17-19, 1984.
- Iles D, Schumitzky A, Katz D, D'Argenio DZ, Jelliffe RW, and Nicholson WF: Computer Programs for "Multiple Model" Adaptive Control of Drug Dosage Regimens. 53rd Annual Postgraduate Convention, Loma Linda University School of Medicine, Loma Linda, California, March 13-14, 1985.

- 40. **Jelliffe RW**: Computer Programs for Drug Dosage Regimens. HealthCom'86, Las Vegas, Nevada, January 30 February 2, 1986.
- 41. **Jelliffe RW**: Computer Programs for Drug Dosage Regimens. Third Annual Symposium on Computers: Applications in Patient Care for Physicians, Nurses, Pharmacists, Dieticians, Hospital Administrators, and Medical Record Administrators. Las Vegas, Nevada, March 19-23, 1986.
- 42. **Jelliffe RW**: Bayesian PC Computer Programs for Drug Dosage Regimens. Fifth World Congress on Medical Informatics, Washington, D.C., October 26-30, 1986.
- 43. **Jelliffe RW**: PC Computer Programs for Drug Dosage Regimens. The Artificial Intelligence and Advanced Computer Technology Conference/Exhibition, Long Beach, CA, April 22-24, 1987.
- 44. **Jelliffe RW**: PC Computer Programs for Drug Dosing and Optimal Drug Monitoring. American Association for Medical Systems and Informatics, San Francisco, CA, May 13-16, 1987.
- 45. **Jelliffe RW**: Computer Programs for Drug Dosage Regimens. Association for the Advancement of Medical Instrumentation, Los Angeles, CA, May 18-20, 1987.
- 46. **Jelliffe RW**: Computer Programs for Drug Dosage Regimens. Association for the Advancement of Medical Instrumentation, Los Angeles, May 18-20, 1987.
- 47. **Jelliffe RW**: Computer Programs for Drug Dosage Regimens. Demonstration at the IUPHAR Meetings in Sydney, Australia, August 23-28, 1987.
- 48. Foo KA, **Jelliffe RW**, Hurst AK, and Armstrong DK: Computer Programs for Designing Optimal Drug Dosage Regimens. 3rd Annual Microcomputer Showcase at Seminar '87, Oakland, CA, October 10, 1987.
- 49. **Jelliffe RW**: Computer Programs for Clinical Management for Drug Dosage Regimens. 98th Annual Meeting Association of American Medical Colleges, Washington, D.C., November 6-12, 1987.
- 50. **Jelliffe RW** and Armstrong DK: PC Computer Programs for Drug Dosage Regimens. 60th Scientific Sessions American Heart Association, Anaheim, CA, November 16-19, 1987.
- 51. **Jelliffe RW**: PC Computer Programs for Drug Dosage Regimens. American Association of Medical Instrumentation, Washington, D.C., May 14-18, 1988.
- 52. **Jelliffe RW** and Armstrong DK: PC Computer Programs for Drug Dosage Regimens. Society of Critical Care Medicine, Orlando, Florida, June 1-2, 1988.
- 53. **Jelliffe RW**, Schumitzky A, Liu M, and Hu L: PC Computer Programs for Planning, Monitoring, and Adjusting Drug Dosage Regimens. California Society of Hospital Pharmacists, Anaheim CA, October 26, 1989.

- 54. **Jelliffe RW**: Computer Programs for Population Pharmacokinetic Modeling, Bayesian Adaptive Control, and 'Multiple Model' Adaptive Control of Drug Dosage Regimens, FASEB Meetings, Anaheim, CA, April 25 - 28, 1994.
- 55. **Jelliffe RW**: Computer Programs for Population PK/PD Modeling. Population Analysis Group in Europe, Wuppertal, Germany, June 19-20, 1998.
- 56. **Jelliffe RW**: Computer Programs for Population PK/PD Modeling. Population Analysis Group in Europe, Saintes, France, June 17-18, 1999.
- 57. Barbaut X, Bayard D, Bustad A, Gomis P, **Jelliffe R**, Laffont A, Lecoq S, Maire P, Milman M, Schumitzky A, Van Guilder M, and Wang X: The USC*PACK Programs for Optimal Drug Dosing and Patient Care, and for Population PK/PD Modeling. Population Analysis Group in Europe, Salamanca, Spain, June 15-16, 2000.
- 58. Barbaut X, Bayard D, Bustad A, Gomis P, Jelliffe R, Laffont A, Leary R, Lecoq S, Maire P, Milman M, Napear S, Schumitzky A, Van Guilder M, and Wang X: The USC*PACK Programs for Optimal Drug Dosing and Patient Care, and for Population PK/PD Modeling. Population Analysis Group in Europe, Basel, Switzerland, June 7-8, 2001.
- 59. **Jelliffe R**, Schumitzky A, Bayard D, Van Guilder M, and Leary R: The USC*PACK Programs for Parametric and Nonparametric Population PK/PD Modeling, for Multiple Model Adaptive Control of Drug Dosage Regimens, and for IMM Bayesian Posterior Individual Models with Changing Parameter Distributions during the period of Data Analysis. Population Analysis Group in Europe, Verona, Italy, June 12-13, 2003.
- 60. Jelliffe R, Schumitzky A, Bayard D, Van Guilder M, and Leary R: The USC*PACK Programs for Parametric and Nonparametric Population PK/PD Modeling, for Multiple Model Adaptive Control of Drug Dosage Regimens, and for IMM Bayesian Posterior Individual Models with Changing Parameter Distributions during the period of Data Analysis. Population Analysis Group in Europe, Uppsala, Sweden, June 17-18, 2004.
- 61. **Jelliffe R**, Schumitzky A, Bayard D, Van Guilder M, and Leary R: The USC*PACK Programs for Parametric and Nonparametric Population PK/PD Modeling, for Multiple Model Adaptive Control of Drug Dosage Regimens, and for IMM Bayesian Posterior Individual Models with Changing Parameter Distributions during the period of Data Analysis. Population Analysis Group in Europe, Bruges, Belgium, June 14-16, 2006
- 62. **Jelliffe R**, Schumitzky A, Bayard D, Van Guilder M, and Leary R: The USC*PACK Programs for Parametric and Nonparametric Population PK/PD Modeling, for Multiple Model Adaptive Control of Drug Dosage Regimens, and for IMM Bayesian Posterior Individual Models with Changing Parameter Distributions during the period of Data Analysis. Population Analysis Group in Europe, Copenhagen, Denmark, June 13-15, 2007.

Internet Publications

1. The USC Laboratory of Applied Pharmacokinetics web site www.lapk.org. 1999 -

Media Appearances

NEWS ARTICLES ABOUT THE LABORATORY OF APPLIED PHARMACOKINETICS

- 1. The PC Prescription, by Charles Piller and Michael Castleman. PC World, October 1986, pp 287-293.
- 2. La Prescripcion con el PC, por Charles Piller y Michael Castleman. PC World Espana, Deciembre 1986, pp. 39-51.
- How Much is Too Much? Precise Prescriptions: Tailoring Drug Dosages, Patient by Patient. by David Hart, HPC: High Performance Computing Contributions to Society, Tabor Griffin Communications, Inc., November 1998, pp.100-102. ISBN 0-9668801-0-2
- 2. Glavnoe opredeliťsya v dosirovke, by Irina Stepanova, in Fakty, Sobytiya, Kommentarii, Meditsinskaya Gazeta, Moscow, Russia, April 28, 2000.
- 3. GridPort Launches Computational Science Applications on the Web, by David Hart, EnVision, April – June 2000, NPACI @ SDSC
- 6. Seminar "Optimizatzia Dosipovanya Lekarstvenni Preperetov na Osnove Printzipov Farmakokinetiki" by. Irina Bondareva, Ph.D., in Detskaya Bolnitza, Spring, 2000, pp.82-84.
- 7. "Customizing Drugs and Doses", by Sandra J. Ackerman, the NCRR Reporter, spring issue, 2001.
- 8. Medicament assiste par ordinateur: Sante X Atelier de Pharmacocinetique Applique a Lyon. By Nathalie Blanc, Lyon Figaro, Friday, June 29, 2001.
- 9. Le Medicament sous surveillance. By Agnes Guenard, Friday June 29, 2001, www.leprogres.fr

OTHER ACTIVITY

1. Laffont A, Maire P, and **Jelliffe R**: Bedside Tools 1998. A software Package for Bedside Calculations. Available at the ADCAPT web site http://www.univ-lyon1/LyonSud/adcapt/ adcapt.htm

FELLOWS TRAINED BY DR. JELLIFFE

- 1. Jun Shik Choi, Ph.D., Professor of Clinical Pharmacy College of Pharmacy, Cho Sun University, Kwang Ju, Korea
- 2. David D'Argenio, Ph.D., Professor and Chief, Biomedical Engineering

University of Southern California, Los Angeles CA.

- 3. Alan Forrest, Pharm.D., Clinical Pharmacokinetics Laboratory Millard Fillmore Hospital, Buffalo NY
- 4. Frank Goicoechea, M.D., Obstetrics and Gynecology 4347 Mount Helix Highlands Drive, La Mesa CA 92041
- 5. Pilar Gomis, Pharm.D., Calle Bristol, Madrid, Spain
- 6. Teresa Iglesias, Pharm.D., Director of Pharmacy Hospital San Augustin, Aviles, Spain
- 7. Jacqueline Marignac Pharm.D., School of Pharmacy, University of Colorado, Denver CO
- 8. William Nicholson, M.D., Private Practice, Cardiology, 5172 Earle St., Fremont CA 94536
- 9. Gustavo Pineda, M.D., University of Zulia School of Medicine, Maracaibo, Venezuela
- 10. John Rodman, Pharm.D., Associate Director, Pharmacy and Pharmacokinetics St. Jude Children's Research Hospital, Memphis TN
- 11. Julian Rodriguez, M.D., School of Medicine, University of Barcelona, Barcelona, Spain
- 12. John Zeisler, Pharm.D., Director of Pharmacy Presbyterian Community Hospital, Whittier CA.
- 13. Zhao Xu Shin, Department of Pharmacy Children's Hospital, Shijiazhuang, Hebei Province, P.R. China.
- 14. Sylvain Goutelle, Ph.D. Candidate, Faculty of Pharmacy, University of Lyon 1, France

SABBATICALS GIVEN BY DR. JELLIFFE

1. Nils Ove Hoem, Ph.D., Associate Professor of Pharmacology University of Oslo School of Pharmacy, Oslo, Norway. July 2000, July 2001

MASTERS STUDENTS TRAINED BY DR. JELLIFFE

2. Annbjoerg Eide, University of Oslo School of Pharmacy, September 2001 – September 2002.

PH.D. JURY MEMBERSHIPS - DR. JELLIFFE

1. Alexander Vinks, Ph.D., University of Leiden, the Netherlands, 1998.

- 2. Sylvain Goutelle, Ph.D., University Claude Bernard Lyon 1, November 30, 2009.
- 3. Laurent Bourguinon, Ph.D., University Claude Bernard Lyon 1, November 30, 2009.

MINI-SABBATICALS GIVEN BY DR. JELLIFFE

- 1. Alexander A.T.M.M. Vinks, Pharm.D., The Hague Hospitals Central Pharmacy, The Hague, The Netherlands, April 27 - July 27, 1997
- 2. Paul Beringer, Pharm.D., Asst. Prof of Clinical Pharmacy USC School of Pharmacy, Los Angeles CA, April 1 - July 1, 1998
- 3. Ruediger Port, M.D., Senior Scientist, German Cancer Research Center, Heidelberg, Germany.

VISITING SCIENTISTS TRAINED BY DR. JELLIFFE

- 1. Yousef Al-Lanqawi, Chief Pharmacist, Alamiri Hospital, Kuwait, May 1-31, 2007
- 2. Juan Altimiras, Pharm.D., Department of Pharmacy Hospital de la Sant Creu i San Pau, Barcelona, Spain
- 3. Azucena Aldaz, Pharm.D., Division of Pharmacy University Hospital of Navarra, Pamplona. Spain
- 4. Irene Aquerreta, Pharm. D., Resident in Hospital Pharmacy School of Pharmacy, University of Navarra, Pamplona, Spain
- 5. Xavier Barbaut, Pharm.D., Chief of Pharmacy, Centre Hospitalier Phillipe le Bon, Beaune, France.
- 6. Carol Bateman, RPh., Department of Pharmacy, Self Memorial Hospital, Greenwood, SC
- 7. Ales Belic, Dipl. Eng., Assistant in Electrical Engineering, University of Ljubljana, Slovenia
- 8. Alienor Berges, Pharmacy Student, University of Paris, France
- 9. Paul Beringer, Pharm.D., Asst. Prof of Clinical Pharmacy, USC School of Pharmacy, Los Angeles CA
- 10. Robert Belloto, Jr., Ph.D., University of Toledo School of Pharmacy, Toledo, OH
- 11. Thierry Berod, Pharm.D. Chief of Pharmacy Centre Territoriale Hospitalier, Papeete, Tahiti, French Polynesia
- 12. Joaquim Bonal, Pharm.D., Chief of Pharmacy

Hospital de la Sant Creu i San Pau, Barcelona, Spain

- 13. Andreas Botnen, M.S., Senior Analyst, System Software Management High Performance Computing Center, University of Oslo, Oslo, Norway
- 14. Irina Bondareva, Ph.D., Institute of Physical and Chemical Medicine, Moscow Medical Institute, Moscow, Russia
- 15. Julia Botha, Ph.D., Senior Lecturer in Clinical & Experimental Pharmacology University of Natal School of Medicine, Durban, S. Africa
- 16. Valentine Breant, Pharm.D., Department of Pharmacy Hospital Antoine Charial, Hospices Civils de Lyon, Francheville, France.
- 17. Dominique Breilh, Pharm.D., School of Pharmacy, University of Bordeaux, France
- 18. Jo-Anne Brien, Victorian College of Pharmacy, Parkville, Victoria, Australia.
- 19. Jurgen Bulitta, Ph.D., School of Pharmacy, Suny Buffalo NY, June 17-23, 2007
- 20. Keith Campbell, M.D., Division of Medical Informatics Stanford University School of Medicine, Stanford CA
- 21. Stan Carson, Pharm.D., School of Pharmacy University of North Carolina, Chapel Hill NC
- 22. Bruno Charpiat, Pharm.D., Department of Pharmacy Hospital Antoine Charial, Hospices Civils de Lyon, Francheville, France.
- 23. Ted Cheung, Pharm.D., Department of Pharmacy Maroondah Hospital, Ringwood East, Victoria, Australia
- 24. Darrell Clardy, M.S., Analytical and Forensic Toxicology, Brea CA
- 25. Laurent Claret, Ph.D., Chair of Population Pharmacokinetics Faculte de Pharmacie, Universite de Montreal, Montreal, Quebec, Canada
- 26. Pamela Coxson, Ph.D., Division of Pharmacokinetics Lawrence Livermore Laboratories, Livermore CA
- 27. Donald Crowell, Pharm.D., Department of Pharmacy, Harbor UCLA Medical Center,NYLos Angeles CA.
- 28. Robert Di Cenzo, Pharm.D., School of Pharmacy, University of Rochester, Rochester NY
- 29. Warren Dodge, M.D., Department of Pediatrics University of Texas Medical Branch, Galveston, TX

- 30. George Drusano, M.D., Chief, Clinical Pharmacology, Albany Medical College, Albany, NY
- 31. Dana Dubovska, Institute of Preventive and Clinical Medicine, Bratislava, Slovakia
- 32. Mohammad Fami, Pharm.D., Asst. Prof. of Pharmacy Practice Northeast Louisiana University, Monroe, LA
- 33. Francisco Farfan, Pharm.D, Pharmacy Resident, Hospital Universitaria Getafe, Getafe, Spain
- 34. Vladimir Feingold, Bionica, Inc., Sydney, NSW, Australia
- 35. Jesus Garcia Foncillas, M.D., Division of Oncology, Faculty of Medicine University of Navarra, Pamplona, Spain
- 36. Alan Forrest, Pharm.D., Division of Pharmacometrics, Millard Fillmore Hospital, Buffalo NY
- 37. Reginald Frye, Pharm.D., School of Pharmacy, University of Pittsburg, Pittsburg PA
- 38. Pamela Garzone, Pharm.D., Genentech Corp., South San Francisco CA
- 39. Igor Gonda, Pharm.D., Aradigm Corp., Hayward CA
- 40. Pilar Gomis, Pharm.D., School of Pharmacy, University of Madrid, Madrid, Spain
- 41. Jose Maria Gonzalez de la Riva, Chief of Pharmacy Hospital Virgen del Camino, Pamplona, Spain
- 42. Iztok Grabnar, M. Pharm., Faculty of Pharmacy, University of Ljubljana Askerceva &, SI - 1000 Ljubljana, Slovenia
- 43. Sylvain Goutelle, Pharm. D., Hospital Antoiine Charial, Francheville, France.
- 44. Selim Hacisalihzade, Ph.D., Landis & Gyr Betriebs Corporation, Zug, Switzerland.
- 45. Nils Ove Hoem, Ph.D., Senior Scientist, Akers Biomarine, Oslo, Norway.
- 46. Gamal Hussein, Pharm.D., Assistant Professor of Clinical Pharmacy, Xavier University College of Pharmacy, New Orleans, LA
- 47. Marian Iriarte, Pharm.D., Pharmacy Resident University of Navarra Hospital, Pamplona, Navarra, Spain
- 48. Rusli Ismail, Pharm.D., School of Pharmacy University Sains Malaysia, Kelantan, Malaysia

- 49. George Jaresko, Pharm.D., Asst Prof of Clinical Pharmacy USC School of Pharmacy, Los Angeles CA
- 50. Victor Jimenez-Arenas, University of Valencia School of Pharmacy, Valencia, Spain.
- 51. Robert Kandrotas, Pharm.D., School of Pharmacy University of Utah, Salt Lake City, UT
- 52. Prof. Dr. Rihard Karba, Faculty of Electrical Engineering University of Ljubljana, Slovenia.
- 53. David Kisor, Pharm.D., School of Pharmacy University of Pittsburg, Pittsburg PA.
- 54. Andrea Kwa, Pharm.D., Staff Pharmacist, Singapore General Hospital, Singapore
- 55. Alain Laffont, Pharm.D., Department of Pharmacy Hospital Antoine Charial, Hospices Civils de Lyon, Francheville, France.
- 56. Thomas M. Lahey, CEO, Lahey Computer Systems, Inc. P.O. Box 6091, Incline Village, NV
- 57. Cornelia B. Landersdorfer, Ph.D., SUNY Buffalo, June 18-23, 2007
- Robert Leary, Ph.D., Senior Scientist San Diego Supercomputer Center, San Diego CA.
- 59. Stephane Lecoq, Pharm.D., Department of Pharmacy Hospital Antoine Charial, Hospices Civils de Lyon, Francheville, France.
- 60. Edmund Lee, M.D., Department of Pharmacology, National University of Singapore, Singapore
- 61. Janice Lee, Pharmacy Student, School of Pharmacy, National University of Singapore
- 62. Judith Lim, M.D., Chief Executive Officer, National University Hospital, Singapore
- 63. Rainer Lingg, RPh., School of Pharmacy, University of Heidelberg, Heidelberg, Germany
- 64. Pascal Maire, Pharm.D., Director of Pharmacy Hospital Antoine Charial, Hospices Civils de Lyon, Francheville, France.
- 65. Maria Antonia Mangues, Pharm.D., Department of Pharmacy Hospital de la Sant Creu i San Pau, Barcelona, Spain.
- 66. Daniel Margolis, Year 3 Medical Student Research Fellow, USC School of Medicine

- 67. Eduardo Marino, Pharm.D., Faculty of Pharmacy University of Barcelona, Barcelona, Spain.
- 68. Gary Matzke, Pharm.D., School of Pharmacy University of Pittsburg, Pittsburg PA
- 69. Jose Carlos Montilla, Pharm.D., School of Pharmacy University of Madrid, Madrid, Spain
- 70. Johan Mouton, M.D, Sophia Children's Hospital Erasmus University, Rotterdam, The Netherlands
- 71. Ramonasari Nazahar, Pharm.D., Fakultas Kedokteran Universitas Indonesia, Jakarta, Indonesia.
- 72. Kees Neef, Pharm.D., Chief, Department of Pharmacy Medische Spectrum Twente, Enschede, The Netherlands
- 73. Ayman Noreddin Pharm.D., University of Manitoba Health Sciences Centre, Winnipeg, Manitoba, Canada
- 74. Gilberto Olivares, M.D., Dean, School of Medicine, University of Zulia, Maracaibo, Venezuela
- 75. Roberto Passera, Pharm.D., School of Pharmacy, University of Turin, Turin, Italy.
- 76. Jose Perez-Urizar, Ph.D, Universidad de San Luis Potosi, Mexico.
- 77. Izidio Pimenta de Moraes, M.D., Faculty of Medicine, Cantaduva, Sao Paulo, Brazil
- 78. Christine Pivot-Dumarest, Pharm.D., Department of Pharmacy Hospital Antoine Charial, Hospices Civils de Lyon, Francheville, France.
- 79. Charles Peloquin, Pharm.D., Director, Infectious Diseases Pharmacokinetics Laboratory, National Jewish Center for Immunology and Respiratory Medicine, Denver Colorado
- 80. Bruno Portalier, Pharm.D., Department of Pharmacy Hospital Antoine Charial, Hospices Civils de Lyon, Francheville, France
- 81. Aziz Raiz, Pharmacy Student University of Montpellier, Montpellier, France
- 82. Kenneth Raymond, Pharm.D., Professor of Pharmacy Chinese University, Hong Kong
- 83. Jason Roberts, B. Pharm., Clinical Pharmacist, Royal Brisbane and Women's Hospital, Herston, Qld, 4029, Australia, April 18-23, 2007

- 84. Louis Roller, Pharm.D., Sigma School of Pharmacy Practice Victorian College of Pharmacy, Melbourne, Victoria, Australia
- 85. Dominique Roux, Pharm.D., Hospital Antoine Charial Hospices Civils de Lyon, Francheville, France.
- 86. Jack Segal, M.D., Division of Clinical Pharmacology, VA Hospital, Long Beach CA
- 87. Dorothee Semiond, Pharmacy Student School of Pharmacy, Claude Bernard University, Lyon, France
- 88. Thomas Senderovitz, M.D., Unit of Clinical Pharmacology Bispebjerg University Hospital, Copenhagen, Denmark
- 89. Kimikazu Shinozaki, Ph.D., Associate Professor of Pharmaceutical Sciences, Kitasato University, Tokyo, Japan
- 90. Wayne Snodgrass, M.D., Division of Clinical Pharmacology University of Texas Medical Branch, Galveston, TX
- 91. Craig Stern, Pharm.D., Propharma Inc., Northridge CA
- 92. Vincent Tam, Pharm.D., Assistant Professor, School of Pharmacy, University of Houston, Houston TX
- 93. Sunny Tse, Pharmacu Student, Oregon State University School of Pharmacology, Portland OR.
- 94. Gustavo Vega, Pharm.D., Hospital De Ninos "Dr. Ricardo Gutierrez", Buenos Aires, Argentina.
- 95. Eliane Vermeulen, Pharm.D., Department of Pharmacy Hospital Antoine Charial, Hospices Civils de Lyon, Francheville, France.
- 96. Sander A.T.M.M. Vinks, Pharm.D., The Hague Hospitals Central Pharmacy, The Hague, The Netherlands.
- 97. Christine Vray, Pharm.D., Department of Pharmacy Hospital Antoine Charial, Hospices Civils de Lyon, Francheville, France.
- 98. Arkaravichien Wiwat, Ph.D., Faculty of Pharmaceutical Sciences Khon Kaen University, Khon Kaen, Thailand
- 99. Brian Whiting, M.D., Dean, School of Medicine University of Glasgow, Glasgow UK
- 100. Kenneth Williams, M.D., Division of Clinical Pharmacology St. Vincent's Hospital, Sydney, Australia.

- 101. Hua-Yue Zhao, M.D., Chief of Cardiology Tongji Hospital, Tongji Medical University, Wuhan, P.R. China.
- 102. Zhang Wu, M.D., Emergency Room Tongji Hospital, Tongji Medical University, Wuhan, P.R. China.
- 103. Anna Zielinska, M.D., Intern in Medicine Silesian Center of Pediatrics, Katowice, Poland
- 104. Sabine Zitta, M.D., Department of Internal Medicine, Division of Nephrology, University of Graz, Austria.
- 105. Willian Hope, M.D., University of Manchester, UK

POSTGRADUATE COURSES AND WORKSHOPS GIVEN

- 1. Medical Director of Postgraduate Course "Cardiology for Dentists", USC School of Dentistry, 1974-77.
- 2. Coordinator of Postgraduate Course "Bedside Clinics in Internal Medicine", USC School of Medicine, 1970.
- 3. Course Coordinator, New Techniques with Computers in Clinical Therapeutics. A Weekend Retreat, Carmel, California, put on by the School of Pharmacy, The Laboratory of Applied Pharmacokinetics of the USC School of Medicine, and the Community Hospital of the Monterey Peninsula, Carmel, California, February 3-5, 1978.
- 4. Second Annual Retreat on Computers and Clinical Therapeutics. University of Southern California Schools of Medicine and Pharmacy, the Laboratory of Applied Pharmacokinetics, and the Community Hospital of the Monterey Peninsula, Carmel, California, February 9-11, 1979.
- 5. Pharmacokinetics '79, St. Francis Medical Center, Hyatt Hotel, Los Angeles International Airport, Los Angeles, California, March 2-4, 1979.
- 6. Course Coordinator, Second Annual Retreat on Computers and Clinical Therapeutics, put on by the USC School of Pharmacy, the Laboratory of Applied Pharmacokinetics of the School of Medicine, and the Community Hospital of the Monterey Peninsula, Carmel, California, February, 1979.
- 7. Clinical Pharmacokinetics in the 1980's, Bahia Hotel, San Diego, California, September 13-14, 1980.
- 8. Local Coordinator of a Symposium on New Concepts in Patient Care: Sensors, Pharmacokinetics, Adaptive Control, and Drug Delivery Systems. presented jointly by the Laboratory of Applied Pharmacokinetics and the USC School of Medicine (RWJ, coordinator), the Electronic Design Center and Case Western Reserve University (Dr. Howard Chizeck, coordinator), and the University of Washington (Dr.

Peter Cheung, overall host and coordinator). October 23-25, 1985, Seattle, Washington.

- 9. Course Coordinator: Applying Pharmacokinetic Concepts to Clinical Drug Therapy, Hebei Institute for Basic Medical Sciences, Shijiazhuang, Hebei, People's Republic of China, September 11-16, 1986.
- 10. Course Coordinator: Personal Computer Software for Drug Dosage Regimens: A Clinical Therapeutics Workshop in an IBM PC Classroom. Laboratory of Applied Pharmacokinetics, University of Southern California, Schools of Medicine and Pharmacy, Los Angeles, California, Los Angeles, California, July 27-29, 1987.
- 11. Course Coordinator: Personal Computer Software for Drug Dosage Regimens: A Clinical Therapeutics Workshop, with Joaquim Bonal, Pharm.D., Hospital de la Sant Creu i San Pau, Barcelona, Spain, September 7-8, 1987.
- 12. Course Coordinator: Personal Computer Software for Drug Dosage Regimens: A Clinical Therapeutics Workshop in an IBM PC Classroom, with Pascal Maire, Pharm.D., College of Pharmacy, University of Lyon, 8 Rockefeller Avenue, 69373 Lyon 08, France, September 10-11, 1987.
- 13. Course Coordinator: Personal Computer Software for Drug Dosage Regimens: The Second Clinical Therapeutics Workshop in an IBM PC Classroom, given by the Laboratory of Applied Pharmacokinetics, University of Southern California, Schools of Medicine and Pharmacy, Los Angeles, California, February 1-3, 1988.
- 14. Course Coordinator: Personal Computer Software for Drug Dosage Regimens: A Clinical Therapeutics Workshop in an IBM PC Classroom, with Pascal Maire, Pharm.D., College of Pharmacy, University of Lyon, 8 Rockefeller Avenue, 69373 Lyon 08, France, April 11-12, 1988.
- 15. Course Coordinator: Personal Computer Software for Drug Dosage Regimens: The Third Clinical Therapeutics Workshop in an IBM PC Classroom, given by the Laboratory of Applied Pharmacokinetics, University of Southern California, Schools of Medicine and Pharmacy, Los Angeles, California, February 20-22, 1989.
- 16. Course Coordinator: Personal Computer Software for Drug Dosage Regimens: A Clinical Therapeutics Workshop in an IBM PC Classroom, with Pascal Maire, Pharm.D., College of Pharmacy, University of Lyon, 8 Rockefeller Avenue, 69373 Lyon 08, France, April 20-24, 1989.
- 17. Course Coordinator: Personal Computer Software for Population Pharmacokinetic Models and for Optimal Adaptive Control of Drug Dosage Regimens. CPT'89 Post-Meeting Satellite Symposium, given by the USC Laboratory of Applied Pharmacokinetics, with Pascal Maire, Pharm.D., the Hospital Antoine Charial, Hospices Civils de Lyon, and the Faculte de Pharmacie, Claude Bernard Universite, Lyon, France, on July 31 - August 2, 1989, Lyon, France.

- 18. Course Coordinator: Personal Computer Software for Drug Dosage Regimens: The Fourth Clinical Therapeutics Workshop in an IBM PC Classroom, given by the Laboratory of Applied Pharmacokinetics, University of Southern California, Schools of Medicine and Pharmacy, Los Angeles, California, April 2-4, 1990.
- 19. Course Coordinator: Personal Computer Software for Population Pharmacokinetic Models and for Optimal Adaptive Control of Drug Dosage Regimens. Given by the USC Laboratory of Applied Pharmacokinetics, with Pascal Maire, Pharm.D., the Hospital Antoine Charial, Hospices Civils de Lyon, and the Faculte de Pharmacie, Claude Bernard Universite, Lyon, France, September 24 26, 1990, Lyon, France.
- 20. Workshop on Therapeutic Drug Monitoring and Applied Pharmacokinetics. Given by the USC Laboratory of Applied Pharmacokinetics with Richard Day, M.D., Department of Clinical Pharmacology, St. Vincent's Hospital, University of New South Wales, Sydney, Australia, November 9 10, 1990.
- 21. Course Coordinator: Practical Modern Pharmacokinetics. Given by the USC Laboratory of Applied Pharmacokinetics with Kenneth Raymond, M.S., Victorian College of Pharmacy, Melbourne, Australia, November 12 14, 1990.
- 22. Course Coordinator: Individualized Drug Therapy. Given by the USC Laboratory of Applied Pharmacokinetics with Edmund Lee M.D., National University Hospital, Singapore, November 17 - 18, 1990.
- 23. Course Coordinator: Therapeutic Drug Monitoring. Given by the USC Laboratory of Applied Pharmacokinetics with Yuen Kah Hay, Pharm.D., Universiti Sains Malaysia, Penang, Malaysia, November 19 21, 1990.
- 24. Course Coordinator: AMIA USC Workshop on Bayesian Individualization of Drug Dosage Regimens, and the Role of Software for Population Modeling. Sponsored by the American Medical Informatics Association, given at USC, March 25 27, 1991.
- 25. Workshop on Therapeutic Drug Monitoring and Applied Pharmacokinetics. Given with Richard Day, M.D., Department of Clinical Pharmacology, St. Vincent's Hospital, University of New South Wales, Sydney, Australia, September 2-4, 1991.
- 26. Course Coordinator: Practical Modern Pharmacokinetics. Given by the USC Laboratory of Applied Pharmacokinetics with Kenneth Raymond, M.S., Victorian College of Pharmacy, Melbourne, Australia, September 8-9, 1991.
- 27. Workshop on Population Pharmacokinetic Modeling and its Clinical Applications. Given with Evan Begg, M.D., Christchurch Hospital, Christchurch, NZ, September 18, 1991.
- 28. Workshop on Therapeutic Drug Monitoring. Given with Yuen Kah Hay, Pharm.D., Universiti Sains Malaysia, Penang, Malaysia, September 30-October 1, 1991.
- 29. Workshop on Therapeutic Drug Monitoring. Given with Edmund Lee, M.D., National University Hospital, Singapore, October 6-7, 1991.

- 30. Workshop on Therapeutic Drug Monitoring and Improving Drug Therapy. Given with Ramonasari Nazahar, M.D., Faculty of Medicine, University of Indonesia, Jakarta, Indonesia, October 9-10, 1991.
- 31. Workshop on Therapeutic Drug Monitoring and Improving Drug Therapy. Technical Institute of Bandung, Indonesia, October 12, 1991.
- 32. A Tutorial on "Population Pharmacokinetic Modeling and its Role in Drug Studies and in Therapeutics". Annual Meeting of the Society on Computer Applications in Medical Care, Sheraton Washington Hotel, Washington D.C., November 17, 1991.
- 33. Workshop on Therapeutic Drug Monitoring and Individualization of Drug Dosage Regimens, with Ester Zylber-Katz, Ph.D., Hadassah Mediical Center, Jerusalem, Israel, May 20-21, 1992.
- 34. Coordinator, with Pascal Maire, Pharm.D. and Rolf Hoigne, M.D., of an evening workshop on "Decision Supports for Individualized Drug Therapy". Seventh World Congress on Medical Informatics, Geneva, Switzerland, September 8, 1992.
- Program Coordinator, with Pascal Maire, Pharm.D., of a USC ADCAPT IMIA FIP

 Medinfo '92 Satellite Open Conference on "Estimation and Control of Patient Variability for Individualized Antibiotic Therapy," Faculty of Pharmacy, Claude Bernard University 1, Lyon, France, September 21-23, 1992.
- 36. 2 Day Workshop, with Yuen Kah Hay, Ph.D., on "Computer Aids to Therapeutic Drug Monitoring", Sixth Southeast Asian Conference on Drug Metabolism, School of Pharmacy, Science University of Malaysia, Penang, Malaysia, October 5-8, 1992.
- 37. Course Coordinator, a USC Workshop on "Bayesian Individualization of Drug Dosage Regimens, Nonparametric EM Software for Population Pharmacokinetic Modeling, and Modeling Drug Diffusion into Endocardial Vegetations: A Research and Therapeutic Workshop in an IBM PC Classroom," Norris Medical Library, USC School of Medicine, February 22-24, 1993.
- "Individualizacion del Regimen de Drogas", a three hour tutorial at the Congreso Nacional de Aplicaciones de Informatica y Computacion en Medicina, "Infomedica 93", March 31 - April 3, 1993, Guadalajara, Mexico.
- 39. Course Coordinator, USC TDM AMIA IMIA Workshop on "Bayesian Individualization of Drug Dosage Regimens, Nonparametric EM Population Pharmacokinetic Modeling, Modeling Drug Diffusion into Endocardial Vegetations, and Modeling Bacterial Killing Curves", a satellite conference to the 3rd International Congress of Therapeutic Drug Monitoring and Clinical Toxicology, May 29-30, 1993, Philadelphia PA.
- 40. Course Coordinator, Four workshops for Pathology Residents, LAC-USC Medical Center, Los Angeles, California, on Pharmacokinetic Modeling, Modeling Drug

Diffusion into Endocardial Vegetations and Bacterial Killing Curves, and Bayesian Individualization of Drug Dosage Regimens, 1-4 pm, July 19, 21, 26, and 28, 1993.

- 41. Course Coordinator, USC National University of Singapore IMIA Workshop on "Bayesian Individualization of Drug Dosage Regimens, Nonparametric EM Population Pharmacokinetic Modeling, Modeling Drug Diffusion into Endocardial Vegetations, and Modeling Bacterial Killing Curves", National University Hospital, Singapore, October 2, 1993
- 42. Course Coordinator, USC TDM AMIA IMIA Workshop on "Bayesian Individualization of Drug Dosage Regimens, Nonparametric EM Population Pharmacokinetic Modeling, Modeling Drug Diffusion into Endocardial Vegetations, and Modeling Bacterial Killing Curves", a satellite conference to the Interscience Conference on Antibiotics and Antimicrobial Chemotherapy, New Orleans LA, October 20-21, 1993.
- 43. Course Coordinator, USC AMIA IMIA Hands on Workshop on "Bayesian Individualization of Drug Dosage Regimens, NPEM2 Software for Population Pharmacokinetic Modeling, and Modeling Drug Effects and Diffusion into Endocardial Vegetations: A Research and Therapeutic Workshop in an IBM PC Classroom", USC School of Medicine, Los Angeles, CA, March 3 - 5, 1994.
- 44. Course Coordinator, with Pascal Maire, Pharm.D., of a workshop on "Individualizing Drug Therapy in the Elderly", Spring Meeting of the European Society of Hospital Pharmacy, Leysin, Switzerland, March 10 12, 1994.
- 45. Course Coordinator, with Pascal Maire, Pharm.D., of a USC ADCAPT IMIA workshop on "Applied Clinical Pharmacokinetics: Adaptive Control and Population Modeling: Theoretical Concepts and Clinical Realities" Lyon, France, March 14 16, 1994.
- 46. Course Coordinator, a USC IMIA Workshop on "Therapeutic Drug Monitoring and Individualizing Dosage Regimens", School of Pharmacy, Khon Kaen University, Khon Kaen, Thailand, March 23 25, 1994.
- 47. Course Coordinator, USC IMIA Workshop on "Therapeutic Drug Monitoring", as part of the Hospital Pharmacy Seminar and TDM workshop, organized by the Universiti Sains Malaysia, the Malaysian Ministry of Health, and the Malaysian Pharmaceutical Society, Penang, Malaysia, March 30 April 3, 1994.
- 48. Course Coordinator, with Kenneth Raymond, Pharm.D., of a workshop on "Practical Use of Modern Day Pharmacokinetics: A Bioavailability and Therapeutic Drug Monitoring Workshop", Faculty of Pharmacy, Chinese University of Hong Kong, April 6 9, 1994.
- 49. Course Coordinator, with George Drusano, M.D., of a workshop on "Bayesian Individualization of Drug Dosage Regimens, Nonparametric EM Population Modeling, Modeling Drug Diffusion into Endocardial Vegetations, and Modeling Bacterial Killing Curves", Orlando, Florida, October 7-8, 1994.

- 50. Course Coordinator, a USC AMIA IMIA Workshop on "Population Pharmacokinetic / Dynamic Modeling, and New "Multiple Model" Adaptive Control of Drug Therapy: A Research and Practical Workshop in a Hands - on PC Classroom." USC School of Medicine, Los Angeles, CA, February 24-25, 1995.
- 51. Course Coordinator, a USC AMIA IMIA Workshop on "Population Pharmacokinetic / Dynamic Modeling, and New "Multiple Model" Adaptive Control of Drug Therapy: A Research and Practical Workshop in a Hands - on PC Classroom." USC School of Medicine, Los Angeles, CA, March 3-4, 1995.
- 52. Course Coordinator, a USC AMIA IMIA Workshop on "Individualization of Drug Dosage Regimens, NPEM2 Population Pharmacokinetic Modeling, Modeling Drug Diffusion, Effects, and Bacterial Kill, and Multiple Model Stochastic Control of Dosage Regimens," a satellite open conference, on July 28-29, 1995, to the World Congress on Medical Informatics, Vancouver B.C., July 23-27, 1995.
- 53. Course Coordinator, a USC ACCP AMIA IMIA Workshop on "Population PK/PD Modeling, Individualized Drug Therapy, and new "Multiple Model" Design of Drug Dosage", on August 5-6, 1995, in association with the annual meeting of the American College of Clinical Pharmacy, Washington D.C., August 7-9, 1995.
- Course Coordinator, a USC Workshop on "Population PK/PD Modeling, Individualized Drug Therapy, and new "Multiple Model" Design of Drug Dosage", Institute of Preventive and Clinical Medicine, Bratislava, Slovakia, September 4, 1995.
- 55. Course Coordinator, with Leslie Shaw, Ph.D., of a USC Workshop on "Population PK/PD Modeling, Individualized Drug Therapy, and new "Multiple Model" Design of Drug Dosage", September 9-10, 1995, in association with the International Congress on Therapeutic Drug Monitoring, Vienna, Austria, September 4-8, 1995.
- 56. Course Coordinator, with Tibor Deutsch, Ph.D., of a USC Workshop on "Therapeutic Drug Monitoring and Individualized, Goal-Oriented, Drug Therapy", Semmelweiss University, Budapest, Hungary, September 25, 1995.
- 57. Course Coordinator, with Dimiter Terziivanov, M.D., of a USC workshop on "Therapeutic Drug Monitoring and Individualized, Goal-Oriented, Drug Therapy", Hospital "J. Rilsky", Sofia, Bulgaria, September 27, 1995.
- 58. Course Coordinator, a USC AMIA IMIA Workshop on "Population Pharmacokinetic / Dynamic Modeling, and New "Multiple Model" Adaptive Control of Drug Therapy: A Research and Practical Workshop in a Hands - on PC Classroom." USC School of Medicine, Los Angeles, CA, February 23-24, 1996.
- 59. Coordinator, workshop on "New Advances in Control of PK/PD Systems", Pharmacometric Section workshop, American Society for Clinical Pharmacology and Therapeutics, Orlando, FL, March 20-22, 1996.

- 60. Course Coordinator, with Folke Sjoqvist, M.D., of a USC workshop on "Model-Based, Goal Oriented, Individualized Drug Therapy", Huddinge Hospital, Karolinska Institutet, Huddinge, Sweden, June 10-11, 1996.
- 61. Course Coordinator, with Nils Hoem, Ph.D, of a course on "Pharmacokinetics and Model-Based, Goal Oriented, Individualized Drug Therapy", University of Oslo School of Pharmacy, Oslo, Norway, June 14, 1996.
- 62. Course Coordinator, USC Conference on "Model-Based, Goal-Oriented Drug Therapy: New Advances in Population PK/PD Modeling, Individualized Drug Regimens, and 'Multiple Model' Drug Dosage" - a satellite conference at the American College of Clinical Pharmacy Annual Meeting, Nashville, TN, August 3-4, 1996.
- 63. Course Coordinator, USC Conference on "Model-Based, Goal-Oriented Drug Therapy: New Advances in Population PK/PD Modeling, Individualized Drug Regimens, and 'Multiple Model' Drug Dosage" - a satellite conference prior to the Interscience Conference on Antimicrobial and Antibacterial Chemotherapy, New Orleans, LA, September 13-14, 1996.
- 64. Course coordinator, with Alexander Vinks, Ph.D., of an Abbott Laboratories conference on Optimal Population Modeling and Drug Therapy, Scheveningen, Holland, November 7, 1996.
- 65. Course Coordinator, with Nils Hoem, Ph.D, of a course on "Pharmacokinetics and Model-Based, Goal Oriented, Individualized Drug Therapy", University of Oslo School of Pharmacy, Oslo, Norway, November 12-15, 1996.
- 66. Course Coordinator, a USC Workshop on "Parametric and Nonparametric Population PK/PD Modeling, Individualized Antibiotic Therapy and its Effects, and "Multiple Model" Individualization of Drug Dosage: A Research and Practical Workshop in a Hands on PC Classroom." USC School of Pharmacy, Los Angeles, CA, February 23-24, 1996.
- 67. Coordinator, workshop on "What have Pharmacokinetics and Pharmacodynamics really done in the Areas of Drug Development, FDA Regulation and Approval, and Patient Care", Pharmacometric Section workshop, American Society for Clinical Pharmacology and Therapeutics, San Diego CA, March 5-7, 1997.
- 68. Course Coordinator, Premeeting Workshop on Pharmacokinetics, for the 37th Interscience Conference on Antimicrobial Agents and Chemotherapy, September 27, 1997, Toronto, Canada.
- 69. Course Coordinator, a USC workshop on "Population PK/PD Modeling and New Methods for Model-Based, Goal-Oriented, Individualized Drug Therapy", just before the American College of Clinical Pharmacy Annual Meeting, Phoenix AZ, November 8-9, 1997.

- 70. Course Coordinator, a USC-IATDM-CT workshop on "TDM and Pharmacokinetics: Providing Model-Based, Goal-Oriented, Individualized Drug Therapy", November 15-16, 1997, in association with the International Congress on Therapeutic Drug Monitoring and Clinical Toxicology, November 10-14, 1997, Vancouver BC Canada.
- 71. Course Coordinator, a USC Hands on Workshop on "Intermediate and Advanced Population Modeling, and Application to Model - Based, Goal - Oriented Individualized Drug Therapy", in the Computer Classroom, USC School of Pharmacy, Los Angeles, CA, February 27 - March 1, 1998.
- 72. Coordinator, workshop on "Pharmacometric Issues in Drug Development and Therapy", Pharmacometric Section workshop, American Society for Clinical Pharmacology and Therapeutics, New Orleans LA, March 30, 1998.
- 73. Course Coordinator, workshop on "Linear Population Modeling on PC's, and Nonlinear PK/PD Modeling on Supercomputers: Application to Model-Based, Goal-Oriented, Individualized Drug Therapy," at the San Diego Supercomputer Center, San Diego CA, September 22, 1998.
- 74. Course Coordinator, with David Kisor, Pharm.D., workshop on "Population PK/PD Modeling and New Methods for Model-Based, Goal-Oriented, Individualized Drug Therapy" Ohio Northern University School of Pharmacy, Ada, OH, October 16-17, 1998.
- 75. Course Coordinator, of a USC Hands on Workshop on "Parametric and Nonparametric Population PK and PD Modeling - Getting the Best from each method: Application to Optimal Drug Dosage", in the Computer Classroom, USC School of Pharmacy, Los Angeles, CA, February 26 and 27, 1999.
- 76. Course Coordinator, workshop on "Issues in Population Modeling and Clinical Applications, Cairns, Australia, September 18, 1999.
- 77. Course Coordinator, with Azucena Aldaz, Pharm. D., of a joint University of Navarra -USC workshop on "Parametric and Nonparametric Population PK and PD Modeling, Pamplona, Spain, October 21-22, 1999.
- 78. Course Coordinator of a USC Hands on Workshop on "Parametric and Nonparametric Population PK and PD Modeling: Application to Multiple Model Dosage Design and Optimal Sequential Bayesian Feedback for Optimal Patient Care, in the Computer Classroom, USC School of Pharmacy, Los Angeles, CA, March 17-18, 2000.
- 79. Course coordinator, with Irina Bondareva, of a workshop on "Basic Applications of Pharmacokinetics to Optimal Patient Care: Advanced Population Modeling Techniques", Moscow, Russia, April 17-18, 2000.
- 80. Course coordinator, with Rusli Ismail, Pharm. D., of a workshop on "Therapeutic Drug Monitoring – Making the most out of Computer Technology", International Medical University, Kuala Lumpur, Malaysia, May 10, 2000.

- 81. Course coordinator, with Edmund HD Lee, M.D., workshop on "Parametric and Nonparametric Population PK and PD Modeling and its Applications in Therapeutic Drug Monitoring", Department of Pharmacology, Faculty of Medicine, National University of Singapore, October 16-18, 2000.
- 82. Course coordinator, with Paul Beringer, Pharm. D., of a workshop on "Model-Based, Goal-Oriented Drug Therapy: Relationship to Parametric and Nonparametric Population PK/PD Modeling, Therapeutic Drug Monitoring, and Multiple Model Dosage Design". Computer Classroom, USC School of Pharmacy, November 3-4, 2000.
- 83. Coordinator, with Nils Hoem, Ph.D., of an evening workshop on "Current Issues in Pharmacometrics: Optimal Modeling and Therapy", Tuesday, January 9, 2001, during the Western Multiconference 2001 International Conference on Health Sciences Simulation, at the Crowne Plaza Hotel, Phoenix AZ, January 7-11, 2001.
- Coordinator, with Irina Bondareva, of a workshop on "Basic Applications of Pharmacokinetics to Optimal Patient Care: Advanced Population Modeling Techniques", Institute for Physical and Chemical Medicine, Moscow, Russia, April 9 – 10, 2001.
- 85. Coordinator, with Pascal Maire, Ph.D., of a three day "Tenth Workshop 2001 on Adaptive Control of Drug Therapy: Individualizing Drug Therapy in 2001-Necessities, Difficulties, and Opportunities", Hospital Geriatrique Antoine Charial, Francheville, France, 27-29 June, 2001.
- 86. Coordinator, with Sander Vinks, Ph.D., of a morning workshop on "Issues in Pharmacokinetic and Pharmacodynamic Data Analysis and Population Modeling", <u>International Congress on Therapeutic Drug Monitoring and Clinical Toxicology,</u> <u>September 2, 2001</u>. The Mayflower Hotel, Washington DC, USA.
- 87. Coordinator, with Sander Vinks, Ph.D., of a two day workshop on "Therapeutic Drug Monitoring for Model-Based, Goal-Oriented Optimal Individualized Drug Therapy: Relationship to Parametric and Nonparametric Population PK/PD Modelling and to Multiple Model Dosage Design" on September 7-8, 2001, just after the <u>International</u> Congress on Therapeutic Drug Monitoring and Clinical Toxicology, September 1-6, <u>2001</u>. The Mayflower Hotel, Washington DC, USA.
- 88. A three-day workshop, with Nils Hoem, Ph.D., and Marilyn Martinez, Ph.D., at the Center for Veterinary Medicine, US Food and Drug Administration, Rockville MD, on New Methods of Population Pharmacokinetic and Pharmacodynamic Modeling, September 10-12, 2001.
- 89. A one-day workshop, with Nils Hoem, Ph.D., and Elena Mishina, Ph.D., at the Center for Drug Evaluation and Research, US Food and Drug Administration, Rockville MD, on New Methods of Population Pharmacokinetic and Pharmacodynamic Modeling, September 13, 2001.

- 90. A three-day, hands-0n workshop on "Principles of Pharmacokinetics Parametric and Nonparametric Population PK and PD Modeling - Applications to Therapeutic Drug Monitoring and to Optimal Individualization of Drug Therapy", University of Navarra, Pamplona, Spain, January 24-26, 2002.
- 91. Coordinator, with Paul Beringer, Pharm. D., of a three-day, hands-on workshop on "Principles of Pharmacokinetics - Parametric and Nonparametric Population PK and PD Modeling - Applications to Therapeutic Drug Monitoring and to Optimal Individualization of Drug Therapy", Computer Classroom, USC School of Pharmacy, February 21-23, 2002.
- 92. Coordinator, with Roberto Passera, Ph.D., of a three day, hands-on workshop on Parametric and Nonparametric Population PK and PD Modeling - Applications to Therapeutic Drug Monitoring and to Optimal Individualization of Drug Therapy – Introduction of the new MM-USC*PACK program, for Multiple Model Dosage Design. Computer Classroom at Molinette University Hospital – Torino – Italy, March 20-22, 2002.
- 93. Coordinator, with Irina Bondareva, Ph.D., of a two day, workshop on Parametric and Nonparametric Population PK and PD Modeling - Applications to Therapeutic Drug Monitoring and to Optimal Individualization of Drug Therapy – Introduction of the new MM-USC*PACK program, for Multiple Model Dosage Design. Research Institute for Physical and Chemical Medicine, Moscow, Russia, April 10-11, 2002.
- 94. Coordinator, with Irina Bondareva, Ph.D., and Michail Pchelintsev, M.D., of a two day, workshop on Parametric and Nonparametric Population PK and PD Modeling -Applications to Therapeutic Drug Monitoring and to Optimal Individualization of Drug Therapy, Pavlov Medical University, St. Petersburg, Russia, May 14-16, 2002.
- 95. Coordinator, with Paul Beringer, Pharm. D., of a three-day, hands-on workshop on "Principles of Pharmacokinetics – New Unified Parametric and Nonparametric Approaches to Population PK and PD Modeling - Applications to Therapeutic Drug Monitoring and to Optimal Individualization of Drug Therapy", Computer Classroom, USC School of Pharmacy, September 30 – October 2, 2002.
- 96. Coordinator, with Pascal Maire, Ph.D., of a one day workshop on "Principles of Pharmacokinetics New Unified Parametric and Nonparametric Approaches to Population PK and PD Modeling Applications to Therapeutic Drug Monitoring and to Optimal individualization of Drug Therapy", School of Pharmacy, University of Lyon 1, Lyon, France, November 29, 2002.
- 97. Coordinator, with Maria Gusella, M.D., of a one day satellite workshop on "Principles of Pharmacokinetics New Unified Approaches to Parametric and Nonparametric Population PK and PD Modeling Applications to Therapeutic Drug Monitoring and to Optimal Individualization of Drug Therapy and Cancer Chemotherapy", at the Third International Congress on "New Trends in Cancer Therapy", International Cancer Center, Rovigo, Italy, December 3, 2002.
- 98. Course coordinator, of a half day workshop on "Parametric and Nonparametric Population Pharmacokinetic and Dynamic Modeling Applications to Therapeutic

Drug Monitoring and Optimal Drug Dosage Individualization." Society for Computer Simulation, Western Multiconference, Orlando, FL, January 22, 2003.

- 99. Course coordinator, with Victor Jimenez-Torres, Ph.D, of a three day, hands-on, workshop on "Parametric and Nonparametric Population Pharmacokinetic and Dynamic Modeling Applications to Therapeutic Drug Monitoring and Optimal Drug Dosage Individualization." School of Pharmacy, University of Valencia, Valencia, Spain, March 10-12, 2003.
- 100. Course coordinator, with Irina Bondareva, Ph. D., of a two day workshop on "Principles of Pharmacokinetics - Parametric and Nonparametric Population PK and PD Modeling: Applications to Therapeutic Drug Monitoring and to Optimal Individualization of Drug Therapy", April 8-9, 2003, Research Institute of Physical and Chemical Medicine, Malaya Pirogovskaya str, 1a, Moscow, Russia, in conjunction with the Moscow meeting on "Man and Drugs", April 7-11, 2003.
- 101. Course coordinator, with Dimiter Terziivanov, M.D., of a two day workshop on Population Pharmacokinetic/Dynamic Modeling: Basic Concepts and Clinical Applications to Optimally Individualized Drug Therapy. School of Pharmacy, University of Bulgaria, Sofia, Bulgaria, May 7-8, 2003.
- 102. Coordinator, with Alison Thomson, Pharm.D., and Alexander Vinks, Ph.D., of a 2 ½ hr workshop on "Application of Population Modeling to TDM Data", at the International Congress on Therapeutic Drug Monitoring and Clinical Toxicology, Basel, Switzerland, September 11, 2003.
- 103. Coordinator of a 2 day postcongress satellite workshop on "New Advances in Model-Based/Goal-Oriented Optimal Individualized Drug Therapy: Relationship to Population PK/PD Modeling and to Multiple Model Methods for Optimal Tracking of Drug Behavior and Optimal Dosage Design", after the International Congress on Therapeutic Drug Monitoring and Clinical Toxicology, Basel, Switzerland, September 12-13, 2003.
- 104. Course Coordinator, with Ashutosh Gandhi and Kamal Matar, Ph.D., of a three day, hands-on workshop on "Updates on Pharmacokinetics in Patient Care Settings", computer classroom, Faculty of Pharmacy, Health Sciences Center, University of Kuwait, Kuwait, December 6-9, 2003.
- 105. Course Coordinator, with Irina Bondareva, Ph.D., of a two day workshop on "Clinical Approaches to Individualizing Therapy with Toxic Drugs: Problem Cases and Methods for Solving them", the Institute for Physical and Chemical Medicine, Moscow, Russia, April 21-22, 2004.
- 106. Course Coordinator of a two day preconference workshop on "PK/PD Modeling Methods and Clinical Applications (Intermediate - Advanced - Expert Level)", September 7-8. 2004, before the <u>World Conference on Magic Bullets</u> (<u>CELEBRATING PAUL EHRLICH'S 150th BIRTHDAY</u>), September 9-11, 2004, Nürnberg, Germany.

- 107. Course coordinator, with Pascal Maire, Ph.D. and Robert Leary, Ph.D., of a half-day workshop on "Pharmacocinetique clinique chez la personne agee Atelier de prestige", at the 20th Journees Nationales d'information des Pharmaciens Hospitaliers, Toulon, France, September 17, 2004.
- 108. Course Coordinator, with Dimiter Terziivanov, MD. and Irina Bondareva, Ph.D., of the Third International Seminar on New Developments in Optimal Individualization of Drug Therapy and Pharmacokinetic/Pharmacodynamic Modeling: Basic Concepts and Clinical Applications, and of Concepts and problems in Studies of Bioequivalence", Faculty of Pharmacy, University of Sofia, Bulgaria, October 5-7, 2004.
- 109. Course Coordinator, with Charles Peloquin and Courtney Fletcher, of a 1 day workshop on "Clinical Approaches to Individualizing Therapy with Toxic Drugs: Problem Cases and Methods for Solving them". The National Jewish Hospital, and the University of Colorado School of Pharmacy, Thursday, November 18, 2004
- 110. Course Coordinator, with Michael Neely and Alexander Vinks, of a 2 day workshop on "New Advances in Therapeutic Drug Monitoring and Individualized Drug Therapy", a postcongress workshop following the International Congress of Therapeutic Drug Monitoring and Clinical Toxicology, Louisville KY, April 29-30, 2005.
- 111. Course Coordinator, with Dr. Teh Lay Kek, of a Two Day Workshop on "Population Pharmacokinetic/Pharmacodynamic Modeling", Computer Laboratory, Faculty of Pharmacy, Universiti Teknologi MARA, Kuala Lumpur, 14th 15th December 2005.
- 112. Course Coordinator, with Dr. Irina Bondareva, of a Two Day Workshop on "Population Modeling and Drug Dosage Individualization, University of Moscow Medical School, Moscow, Russia, May 3-4, 2006.
- 113. Course Coordinator, with Dra Maria Antonia Mangues, Pharm.D., of a workshop on "Basic and Applied Clinical Pharmacokinetics", Department of Pharmacy, Hospital de la Santa Creu i Sant Pau, Barcelona, Spain, in memory of Drs. Joaquim Bonal and John Rodman, Monday June 19, 2006,
- 114. Course Coordinator, with Kamal Matar, Ph.D., of a 1 day workshop on "Therapeutic Drug Monitoring and Optimal Individualized Drug Dosage", December 13, 2006, in conjunction with the 1st Kuwait Pharmaceutical Sciences Conference & 10th Conference of Scientific Association of Colleges of Pharmacy in the Arab World, Kuwait, 11 – 13 December 2006.
- 115. Course Coordinator, with Irina Bondareva, Ph.D., of a 2 day workshop on "Basic and Applied Clinical Pharmacokinetics, and Therapeutic Drug Dosage Individualization and Management", at the Laboratory of Mathematical Modeling, Institute for Physical-Chemical Medicine, Moscow, Russia, April 19-20, 2007.
- 116. Course Coordinator, with Irina Bondareva, Ph.D., of a 2 day workshop on "Basic and Applied Clinical Pharmacokinetics, and Therapeutic Drug Dosage Individualization

and Management", at the Laboratory of Mathematical Modeling, Institute for Physical-Chemical Medicine, Moscow, Russia, April 15-16, 2008.

- 117. Workshop on "Pharmacometric Tools for Individualized Drug Therapy: PK/PD Modeling, Bayesian adaptive Control, and Optimal Active 'Dual" Control", Meeting on Therapeutic Drug Monitoring and Clinical Toxicology, Kuwait University, Kuwait, February 18, 2009.
- 118. Course Coordinator, with Drs. Jose Perez-Urizar and Amador Covarrubias, of a 2 day workshop on "Pharmacometric Tools for Practical Individualized Drug Dosage Regimens Population PK/PD Modeling, Multiple Model (MM) Dosage Design, and MM Bayesian Adaptive Contfrol", under the Auspices of the International Association for Therapeutic Drug Monitoring and Clnical Toxicology, Hospital Civil de Guadalajara, Guadalajara, Mexico, July 9 and 10, 2009.
- 119. Course Coordinator, with Michael Neely,M.D., of a premeeting workshop on "Pharmacometric Tools for Optimally Precise Individualized Drug Therapy: Nonparametric (NP) Population Modeling, Multiple Model (MM) Bayesian Adaptive Control, and Optimal Active "Dual" Control", Saturday, September 12, 2009, 8:00AM – 5:00 PM, American College of Clinical Pharmacology 38th Annual Meeting, September 13-15, 2009, Hyatt Regency San Antonio, San Antonio, Texas.
- 120. Course Coordinator, Two day Postcongress Workshop on "Pharmacometric Tools for Maximally Precise Individualized Drug Therapy". International Congress for Therapeutic Drug Monitoring and Clinical Toxicology, Montreal, QE, Octgober 9-10, 2009.
- 121. Course coordinator, with Eduardo Marino, Ph.D, of a 1 day workshop on "Pharmacometric Tools for Maximally Precise Individualized Drug Therapy", Catalan Society of Hospital Pharmacists, Barcelona, Spain, November 25, 2009.