

David W. A. Bourne

College of Pharmacy
University of Oklahoma
Health Sciences Center
1110 N. Stonewall Ave
Oklahoma City, OK 73117-1223
(405) 271-6481 x 47213 FAX: (405) 271-7505
david-bourne@ouhsc.edu

PRESENT POSITION: Professor of Pharmacy

EDUCATION:

Diploma of Pharmacy, Victorian College of Pharmacy, 1967
B.Pharm., Victorian Institute of Colleges, 1971
M.S.(Honors), University of Kansas, 1973
Ph.D., University of Kansas - Victorian College of Pharmacy (Intersearch) 1974.
Thesis, "Acronycine esters as Pro-Drugs. Inhibition of Hydrolysis by Complexation"

EXPERIENCE:

Professor, College of Pharmacy, University of Oklahoma, Oklahoma City, OK 1996
- present
Special Member, Graduate Faculty, University of Colorado, Aurora, CO 2011-
present
Adjunct Professor, College of Veterinary Medicine, Oklahoma State University,
Stillwater, OK 2004-present
Visiting Professor (Sabbatical), School of Pharmacy, University of Colorado,
Aurora, CO, Jul - Dec 2010
Associate Professor, College of Pharmacy, University of Oklahoma, Oklahoma
City, OK 1987 - 1996
Consultant in Pharmacokinetics, United Nations Industrial Development
Organization, Taedok, Chung-Nam, Republic of Korea, Mar-Apr 1990, June-
July 1988
Senior Lecturer, Department of Pharmacy, Univ of Queensland, St Lucia, Qld,
Australia 1983 - 87
Visiting Research Scholar, Department of Veterinary Biosciences, University of
Illinois, Urbana, IL January - April 1986
Lecturer, Department of Pharmacy, University of Queensland, St Lucia, Qld,
Australia, 1980 - 82
Assistant Professor, College of Pharmacy, Univ of Kentucky, Lexington, KY 1977 -
80
Postdoctoral Fellow, College of Pharmacy, Univ of Kentucky, Lexington, KY 1974 -
77
Visiting Lecturer, College of Veterinary Med, Univ of Illinois, Urbana, IL, Jun - Jul
1976

Assistant Lecturer, Victorian College of Pharmacy, Melbourne, Vic, Australia 1973 - 74

Research Assistant, University of Kansas, Lawrence, KS 1971 - 73

Pharmacist, Retail Manager, Melbourne, Vic, Australia 1970

Pharmacist-in-charge, Australian First Field Hospital, Australian Army, Vung-Tau, South Vietnam (3 months) 1969

AWARDS:

Commonwealth (Tertiary Education) Scholarship, Victorian College of Pharmacy, Vic, Australia 1964 - 1966

Intersearch Scholarship, University of Kansas - Victorian College of Pharmacy, Vic, Australia 1971 - 1974

AAPS Presidential Citation, 1997

AAPS PPDM Service Award, 2006

JOURNAL ADVISORY BOARDS:

Editorial Advisory Board, Journal of Pharmaceutical Sciences 1990-1998

Board of Scientific Reviewers, American Journal of Veterinary Medicine 1994-1996

MEMBERSHIPS AND QUALIFICATIONS:

American Association of Pharmaceutical Scientists (since 1986)

American Association of Colleges of Pharmacy (since 1979)

Rho Chi (Alpha Xi chapter) (since 1979)

Registered Pharmacist, Victoria (1967-2005)

Royal Australian Chemical Institute (1975)

Australian Pharmaceutical Science Association (1980-87, 96)

CONSULTANT:

Ciba Geigy (Australia) 1980

Sandoz (Australia) 1982

Reckitts (Australia) 1982

U.S.V. Pharmaceuticals

Alphapharm 1983 - 86

(Australia) 1981 - 82

UNIDO 1988,90

TSI Mason Labs 1992

Krug Life Sciences/NASA 1992-98

BDRC 1992-94

Angelini Pharmaceuticals 1996-7

NIH ad-hoc Review Committee, Pathology A Study Section 1999

TEACHING EXPERIENCE:

Undergraduate: Biopharmaceutics, Pharmacokinetics, Pharmaceutical Analysis, Physical Pharmacy, Radiopharmaceutics, Clinical Pharmacokinetics

Post-graduate: Biopharmaceutics, Pharmacokinetics, Computer programming, Computer-aided Data Analysis, Drug Stability, Radiopharmaceutics

INTERNET EXPERIENCE:

Webmaster of <http://www.cpb.ouhsc.edu/> since Feb 1994. Webmaster for AAPS home page (1995-1997) , Webmaster for OUHSC College of Pharmacy (1998-2001), AACP EBIR-SIG home page (1998-2002), and Virtual Library: Pharmacy Page (since 1994). Moderator for PharmPK LISTSERV (> 3500 members). Maintains pharmacokinetic/ pharmacodynamic resources at <http://www.boomer.org/pkin/>
Domains owned: boomer.org and pharmacy.org, pharmpk.com, david-bourne.com

Online course material at <http://www.boomer.org/c/p1/> "A First Course in Pharmacokinetics and Biopharmaceutics", <http://www.boomer.org/c/p2/> "Pharmacokinetics – Biopharmaceutics", <http://www.boomer.org/c/p3/> "PHAR 7632/7633 Pharmacokinetics and Biopharmaceutics" , <http://www.boomer.org/c/p4/> "PHAR 7633 Basic Pharmacokinetics" and <http://www.boomer.org/c/m/> "PHAR 7112 Pharmacy Math".

POST GRADUATE STUDENTS:

M. Hayashi	Post Doctoral 1978-79	S.R. Gautam	Ph.D. 1979-1982
C. Tovey	M.Pharm. 1982-1984	V.H. Guerrini	Ph.D. 1982-1985
Z.B. Ismail	M.Pharm. 1983-1985	K.I. Kwon	Ph.D. 1982-1986
A.B. Awaluddin	Ph.D. 1983-1986	L. Hakim	Ph.D. 1985-1988
P. Chen	M.S. 1988-1989	Y-J Lee	Ph.D. 1989-1994
P. Chen	Ph.D. 1990-1994	B. Koneru	Ph.D. 1991-1995
S.R. Vanapalli	Ph.D. 1997-2001	S.R.P. Kambhampati	Ph.D. 1997- 2001
R.P. Pradhan	M.S. 2000-2003	Ying-Hao (Hero) Lu (co-advisor)	M.S. 2003-2005

PATENTS:

Higuchi, T., Repta, A.J., and Bourne, D.W.A. 1976 Acronycine Derivatives. U.S. Patent 3,943,137

Committee Appointments at the University of Oklahoma

College of Pharmacy

Curriculum Committee - Member 1995, 96, 97, 2003, 07, 08, 09, 10, 11
Tenure Committee - Member 1993, 94, 95, 96, 97, 98, 99, 2000, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11
Ad hoc Pharmaceutical Sciences Pharmaceutics Graduate Course Review Committee - Chair 2011
Executive Council - Department Representative 2009, 10
Ad hoc Pharmaceutical Sciences Graduate Program Core Curriculum Development Committee - Member 2009, 10
Pharmaceutical Science Faculty Search Committee - Member 2009
Pharmaceutics Faculty Search Committee - Member 2009
Ad Hoc Committee Stream Assessment, Decision Making and Problem Solving - Member 2009
OAC Drug Therapy Assessment (Team 2) - Member 2009
Integrated Assessment Ad Hoc Committee (Spring-P1) - Member 2009
Integrated Assessment Ad Hoc Committee (Fall-P1) - Member 2008, 09
Ad Hoc Committee to Define Outcomes and Assessment Strategies - Member 2009
Ad hoc Committee to Review Poison Control Center member 2004, 05, 06, 07, 08
College Computer Utilization Committee - Chairman 1988, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 2000, Member 2004 Chair 2005, Member 06, 07
Continuing Education Committee - Member 1996, 97, 98, 2003, 04, 05
College Alternate Delegate to AACP 2004, 05
College ACPE Self-Study Team, Standards for Students – Member 2005
College ACPE Self-Study Team, Standards for Financial Resources – Member 2005
Faculty Task Force for Extension of the OU Doctor of Pharmacy Program to Tulsa – Member 2001,02
Faculty Search Committee - Member - 1990, 91, 97, 98, 99, 2000, 01, 02
Self-study Committee - Member 1998, 99
Search Committee for Dean, College of Pharmacy - Member - 1996, 97
Pharm. D. Committee - Member 1992, 93, 94, 95
Professional Practice Plan - Member 1990, Chairman 1991, 92, Member 1993
Seminar Sub Committee of the College Centennial Committee - Member 1993
Self-study Faculty and Professional Staff and Support Staff Committee - Member 1990, 91
Self-study University Organization and Support Committee - Member 1990, 91
Self-study Research and Graduate Committee - Member 1990, 91
Graduate Affairs Committee - Member 1988, 89
PHSC Graduate Faculty Review Committee - Member 1988, 89
Equipment Committee - Member 1988, 89
Educational Policy, Planning, and Implementation Committee (Curriculum Committee) – Member 2001, 02
Department Graduate Affairs Committee – Member 2000, 2001

Department Strategic Planning Committee – Chairman 2001, 02
Pharmaceutics Faculty Search Committee – Chairman - 2000, 01
Ad hoc Faculty By-laws Committee – Member 2002, 03
Mosier Scholar Selection Committee – Member 2003
Ad hoc sub Committee of the Curriculum Committee to Review the DDS 1 Course –
member 2003
College Delegate to AACP 2003, 04
Ad hoc sub Committee of the Curriculum Committee to Review the Infectious Disease
Module – member 2003
Ad hoc Committee to Explore College – Yamanouchi Pharma Interaction member 2004
Curriculum Committee - Sub Committee - Member 1994

University Committees

OUHSC Information Technology Advisory Committee – Member 2002, 03, 04, 05, 06,
07, 08, 09, 10, 11
OUHSC Campus Website Development Committee - Member 2009
OUHSC Faculty Senate - Alternate 1998, 99, 2009
OUHSC Graduate College Graduate Faculty Appointments Committee – Member 2001,
02, 03, 04, 05, 06, 07
OUHSC Task Force Concerning Online and Distance Education – Member 2005
OUHSC Virtual Study Section – Member 2002, 03
OUHSC Provost Task Force on Distance Education – Member 2001, 02
OUHSC Institutional Animal Care and Use Committee - Member 1988, 89, 90, 91, 95,
96, 97, 98, 99, 2000, 01
OUHSC Faculty Appeals Committee - Member 1993, 94, 95, 96, 97, 98, 99, 2000
OUHSC IT Security Review Taskforce - Member 1999, 2000
OUHSC Academic Affairs, Technology in Teaching Committee - Member 1998, 99
OUHSC Academic Affairs, eMail Review Committee - Member 1998, 99
OUHSC Computer Advisory Committee - Member 1989, 90, 91, Chairman 1992, 93,
Member 1994, 95, 96, 97, 98, 2002
OUHSC Web Focus Group - Member 1998
OUHSC Web Interview Team - Member 1997
OUHSC OU HSC Computer Advisory Committee, ad hoc Committee to Prepare R&E
Mission Statement - Member 1996
OUHSC Graduate Student Affairs - Member 1993, 1994, Chairman 1995
OU Norman Computer Advisory Committee - Member 1990, 91, 92, 93, 94
Search Committee for R & E Associate Director - Member 1990, 91, 94
Faculty Senate Committee on Committees - Member 1988, 89, 90, 91, 92, 93
University Task Force on Computing, Telecommunications, and Library - Member 1992
OUHSC IACUC Sub-committee for Facility Inspection - Chairman 1990, 91
OUHSC Faculty Senate - Member 1988, 89, 90, 91
OUHSC Graduate College Program Evaluation Committee - Member 1988, 89, 90,
Chairman 1991
OUHSC Computer Advisory Committee, ad hoc Committee to Select Mainframe
Computer Replacement for OU HSC Campus - Chairman 1990, 91

OUHSC ad-hoc Committee to Review Copyright Policy Proposal - Co-Chair 1989, 90
OUHSC Computer Advisory Committee, ad hoc Committee to Review Computer Policy
- Member 1989, 90
Faculty Senate Committee for Research and Scientific Affairs - Member 1988, 89, 90

National Appointments

AAPS Distance Learning Committee – Member 2005, 06, 07, 08
AACP EBIR SIG Webmaster 1998, 99, 2000, 01, 02, 03, 04, 05
AACP TOPS Webmaster 2000, 01, 02, 03, 04, 05
AACP Teacher of Pharmaceutics Section (TOPS) Chair-elect 2001, 02
AACP Teacher of Pharmaceutics Section (TOPS) Chair 2002, 03
AACP Teacher of Pharmaceutics Section (TOPS) Immediate Past Chair 2003, 04
AAPS PPDM Section Webmaster 2000, 01, 02, 03, 04, 05
AAPS Finance Committee – Member 2003, 04, 05
AAPS Distance Learning Program Review Team (PRT) Member 2004, 05
AAPS Webmaster 1995, 96, 97
AAPS Information Management Committee - Member 1995, 96, 97
AAPS Task-Force on On-Line Services - Chairman 1995, 96, 97

GRANTS AND CONTRACTS

1977

Bourne, D.W.A. "Physico-chemical Factors affecting the Oral Absorption of Cromolyn Sodium" University of Kentucky Research Foundation, \$1,350 April

Dittert, L.W. and Bourne, D.W.A. "Studies for Rapid and Economical Detection of Drug Residues in Tissues of Food Producing Animals" Food and Drug Administration, \$22,000 June

Bourne, D.W.A. and Dittert, L.W. "Swine as an Animal Model for Oral Bioavailability Testing" Food and Drug Administration, \$109,676 September

Triplett, J.W. and Bourne, D.W.A. "Major Research Equipment Fund" University of Kentucky, \$10,172 October

1978

Bourne, D.W.A. "Physico-chemical Factors affecting the Oral Absorption of Cromolyn Sodium" University of Kentucky Research Foundation, \$500 November

Bourne, D.W.A. "Antibiotic Drugs in Food Producing Animals" Food and Drug Administration, \$10,000 December

1979

Bourne, D.W.A. "Swine as an Animal Model for Oral Bioavailability Testing" Food and Drug Administration \$126,760 March

Hurley, L.H., Hussain, A., Kostenbauder, H.B., Bourne, D.W.A. et al "Biomedical Research Development Grant" DHEW NIH \$299,938 May

Triplett, J.W., Kim, E.E. and Bourne, D.W.A. "Basic Formulation Development and Clinical Studies with cis-Dichlorodiammine Platinum (II)" Kircher Clinical Research Fellowship, \$15,000 May

Triplett, J.W. and Bourne, D.W.A. "Major Equipment Fund" University of Kentucky \$19,271 October

Digenis, G.A., Bourne, D.W.A. et al "Disposition of ¹⁸F-Haloperidol and ⁸²Br-Bromperidol" DHEW NIH \$41,556 December

1980

Triplett, J.W. and Bourne, D.W.A. "Alteration of Gallium-67 Distribution Induced by Carrier Gallium" University of Kentucky Research Foundation \$4,780 January

1981

Triggs, E.J. and Bourne, D.W.A. Bioavailability Testing of a USV β -Blocker Tablet. USV Pharmaceuticals. \$15,000 August

Triggs, E.J., Brophy, T.R.O. and Bourne, D.W.A. Clinical Pharmacology of Some Narcotic Analgesics in Cancer Pain. Queensland Cancer Fund. \$12,812 November

Triggs, E.J., Brophy, T.R.O., and Bourne, D.W.A. Clinical Pharmacology of Some Narcotic Analgesics in Cancer Pain. University of Queensland Cancer Fund. \$2,000 December

1982

Bourne, D.W.A. Pharmacokinetics of Sulphadiazine in Swine and Sheep. Central Computing Time Grant, Prentice Computer Centre, University of Queensland. \$1,000 March

Bourne, D.W.A. Pharmacokinetics of Sulphadiazine in Swine and Sheep. Central Computing Time Grant, Prentice Computing Centre, University of Queensland. \$1,500 June

Triggs, E.J. and Bourne, D.W.A. Bioavailability Testing of a USV Sedative Tablet. USV Pharmaceuticals. \$6,500 April

Triggs, E.J. and Bourne, D.W.A. Dissolution Testing of a USV β -Blocker Tablet. USV Pharmaceuticals. \$3,000 June

Triggs, E.J. and Bourne, D.W.A. Single Dose and Steady State Bioavailability Comparison of a Diuretic in Healthy Volunteers. Reckitts Pty Ltd. \$12,000 July

Triggs, E.J., Brophy, T.R.O., and Bourne, D.W.A. Clinical Pharmacology of Some Narcotic Analgesics in Cancer Pain. Queensland Cancer Fund. \$12,802 November

Triggs, E.J., Bourne, D.W.A., and Eadie, M.J. Pharmacokinetics of Midazolam in the Aged. National Health and Medical Research Council. \$27,380 November

Triggs, E.J., Brophy, T.R.O., and Bourne, D.W.A. Clinical Pharmacology of some narcotic analgesics for pain relief in patients with cancer. University of Queensland Cancer Fund. \$4,872 December

1983

Bourne, D.W.A. Pharmacokinetics of radiopharmaceuticals. Central Computing Time Grant, Prentice Computer Centre, University of Queensland. \$400 June

Triggs, E.J., Bourne, D.W.A., and Eadie, M.J. Pharmacokinetics of Midazolam in the Aged. National Health and Medical Research Council. \$30,799 October

Triggs, E.J. and Bourne, D.W.A. Bioavailability Testing of an Alphapharm Non-steroidal Anti-inflammatory agent Tablet. Alphapharm Pty Ltd. \$9,000 December

1984

Triggs, E.J. and Bourne, D.W.A. Bioavailability Testing of an Alphapharm Non-steroidal Anti-inflammatory agent Capsule. Alphapharm Pty Ltd. \$9,000 February

Bourne, D.W.A. and Jacobs, J.J. Tumour Imaging with Novel Platinum Technetium Radiopharmaceuticals. The Australian Institute of Nuclear Science and Engineering. \$5,000 December

1985

Triggs, E.J. and Bourne, D.W.A. Single Dose Comparison of a Diuretic tablet combination in Healthy Volunteers. Alphapharm Pty Ltd. \$25,000 March

Triggs, E.J. and Bourne, D.W.A. Bioavailability Testing of an Alphapharm β -Blocker Tablet. Alphapharm Pty Ltd. \$12,000 November

Bourne, D.W.A. and Jacobs, J.J. Tumour Imaging with Novel Platinum Technetium Radiopharmaceuticals. The Australian Institute of Nuclear Science and Engineering. \$3,500 December

1986

Bourne, D.W.A. Pharmacokinetics of Drug Interactions. Special Project Grant. University of Queensland. \$6,425 January

Triggs, E.J. and Bourne, D.W.A. Assay Validation for an Alphapharm Diuretic Product. Alphapharm Pty Ltd. \$5,000 August

Jacobs, J.J. and Bourne, D.W.A. Tumour Imaging with Novel Platinum Technetium Radiopharmaceuticals. Queensland Pharmaceutical Research Trust \$4,000 September

Bourne, D.W.A. and Jacobs, J.J. Tumour Imaging with Novel Platinum Technetium Radiopharmaceuticals. The Australian Institute of Nuclear Science and Engineering. \$4,500 December

1987

Bourne, D.W.A. Pharmacokinetic Software Development. University of Illinois, Department of Veterinary Biosciences. \$300 July

Bourne, D.W.A. Modeling of Drug Residues in Food-Producing Animals. Presbyterian Health Foundation \$14,679 October

1988

Bourne, D.W.A. Modeling of Food Residue Data in Laboratory Animals. Postdoctoral Fellowship Requests, OU HSC. \$3,000 July

Allen, L.V., Bourne, D.W.A., and Tu, Y.-H. Pharmacokinetics of a New Controlled Release Sympathomimetic Dosage Form in the Dog, R.P. Scherer Corporation \$9,000 November

1989

Hampton, E.M., Pederson, J.A., Pennington, L.R., Smith, C.L. and Bourne, D.W.A. Effect of diltiazem on cyclosporine immunotherapy. Presbyterian Health Foundation \$19,690 November

1990

Bourne, D.W.A. Support of Pharmaceutics Graduate Program. SmithKline Beecham \$12,500 March

Hampton, E.M. and Bourne, D.W.A. HyperKIN: An Interactive CAI Program in Applied Pharmacokinetics, Apple Computer's Higher Education Academic Development Donation \$16,684 June

1992

Bourne, D.W.A. Pharmacokinetic Modeling Project, KRUG Life Sciences, \$5,000 January

Bourne, D.W.A. Physiologically-Based Pharmacokinetic Models, KRUG Life Sciences, \$24,473 December

1993

Bourne, D.W.A. Simulation of Pharmacokinetic Models using HyperCard®, OU HSC Summer Academy, \$500 February

Putch, L. and Bourne, D.W.A. Pharmacokinetic Models for Assessing the Effect of Weightlessness on Drug Pharmacodynamics, NASA RTOGP, \$55,480 December

Bourne, D.W.A. Physiologically-Based Pharmacokinetic Models, KRUG Life Sciences, \$20,000 December

1994

Bourne, D.W.A. Emulsion Drug Formulations for Improved Oral Administration, OCAST, \$52,542 June

Basmadjian, G.P., Mills, S.L., Seale, T.W., and Bourne, D.W.A. Vaccine Producing Catalytic Antibodies against Cocaine, NIH, \$217,194 (first year) September

Bourne, D.W.A. Physiologically-Based Pharmacokinetic Models, KRUG Life Sciences, \$15,000 December

1995

Bourne, D.W.A. Physiologically-Based Pharmacokinetic Models, KRUG Life Sciences, \$19,000 December

Mandsager, R.E., Whitely, J.R., Clarke, C.R., and Bourne, D.W.A.. Computer-Based Fuzzy Monitoring of Infusion Anesthesia, NIH, \$ 44,381 June

Bourne, D.W.A. Delivering Pharmacy Education on the Information Super Highway, AACP-GAPS, \$26,477 July

Basmadjian, G.P., Mills, S.L., Seale, T.W., and Bourne, D.W.A. Vaccine Producing Catalytic Antibodies against Cocaine, NIH, \$214,000 (second year) September

1996

Bourne, D.W.A.. Review of Pharmacokinetic Data, Angelini Pharmaceuticals, \$2,450 June

Mandsager, R.E., Whitely, J.R., Clarke, C.R., and Bourne, D.W.A. Computer-Based Fuzzy Monitoring of Infusion Anesthesia, NIH, \$ 44,381 (second year) June

Bourne, D.W.A. Provision of PK/Biopharm Education Services, College of Pharmacy, Univ of New Mexico, \$300 August

Basmadjian, G.P., Mills, S.L., Seale, T.W., and Bourne, D.W.A. Vaccine Producing Catalytic Antibodies against Cocaine, NIH, \$230,056 (third year) September

Bourne, D.W.A. Physiologically-Based Pharmacokinetic Models, KRUG Life Sciences, \$7,000 December

Bourne, D.W.A. Development of Java applets for WWW Delivery, School of Pharmacy, UCSF, \$2,000 December

1997

Bourne, D.W.A. Provision of PK/Biopharm Education Services, College of Pharmacy, Univ of New Mexico, \$300 August

1998

Bourne, D.W.A. Resource Facility for Population Kinetics, Consultant, University of Washington (NIH), \$4,000 Mar

Bourne, D.W.A.. Provision of WWW Services for EBIR SIG of AACP, \$14,850 Apr

Bourne, D.W.A. Bioavailability of PMZ Project and Assessment of Sleep Dynamics, Wyle Laboratories, \$5,000 June

1999

Bourne, D.W.A. Resource Facility for Population Kinetics, Consultant, University of Washington (NIH), \$4,000 Mar

Bourne, D.W.A.. Provision of WWW Services for EBIR SIG of AACP, \$15,000 Feb

2000

Bourne, D.W.A. Resource Facility for Population Kinetics, Consultant, University of Washington (NIH), \$4,000 Mar

Bourne, D.W.A.. Provision of WWW Services for EBIR SIG of AACP, \$6,000 Jun

2001

Bourne, D.W.A. Analysis of plasma samples by HPLC, V.A. Hospital, OKC., \$4,000 Mar

Bourne, D.W.A. Review of Biopharmaceutics and Pharmacokinetic Data, Arent Fox Kintner Plotkin & Kahn PLLC, \$11,024 Apr-May

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, MUSC, \$900 Jul

2002

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, XU \$2,100 Aug

Bourne, D.W.A. Provision of PK Course on CD, UK, \$500 Mar

Bourne, D.W.A. Provision of PK Course on CD, various \$920 Dec

2003

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, XU, \$2,400 Nov

Bourne, D.W.A. Provision of PK/Biopharm Workshops for IBC \$7,200 Dec

Bourne, D.W.A. Provision of PK Course on CD, various \$730 Dec

2004

Bourne, D.W.A. Provision of Pharmacokinetic Services, Federal Public Defender, OKC, \$1,000 Aug

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, XU, \$7,500 Oct

Bourne, D.W.A. Provision of PK Course on CD, various \$580 Dec

2005

Bourne, D.W.A. Provision of Pharmacy Math problem sets via Online Web Access, WU, \$900 Feb

Bourne, D.W.A. Provision of Video over IP/Web based Pharmacokinetic course \$10,000 Apr

Bourne, D.W.A. Provision of PK Course on CD, various \$500 Dec

2006

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, XU, \$6,300 Feb

Bourne, D.W.A. Provision of Pharmacokinetic Services, Law Firms, \$1,725 May

Bourne, D.W.A. Provision of Pharmacokinetic Services, Analytical Research Lab, OKC, OK \$650 Jun

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, XU, \$4,344 Nov

Bourne, D.W.A. Provision of PK Course by Distance Learning, \$500 Nov

Bourne, D.W.A. Provision of PK Course on CD, various \$420 Dec

2007

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, XU, \$4,200 Sep

Bourne, D.W.A. Provision of PK Course on CD, various \$380 Dec

2008

Bourne, D.W.A. Nanoparticles for Targeted Drug Delivery, OU College of Pharmacy Seed Grant Program, \$9,126, Jul

Dormer, K., Grady, B., Kopke, R., Rutel, I. and Bourne, D.W.A. Targeted Delivery of Therapeutics Nanocomposites, OCAST-OARS, \$44,664 (match \$44,791) first year, \$89,664 (match \$90,211) total, Aug

Kopke, R., Dormer, K., Bourne, D.W.A., Chen, K., Floyd, R., and Gao, X. Multifunctional Nanoparticles for Targeted Therapy, NIDCD R21, \$173,891 Direct Costs, Aug

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, XU, \$4,090 Aug

Bourne, D.W.A. Provision of PK Course on CD, various \$655 Dec

2009

Towner, R., Floyd, Smith, Doblaz, S., Watanabe, Y., Gordon, B., Ritchey, J., Snider, T., Pope, C., Bourne, D.W.A., Maples, K. and Jensen, R. Pre-clinical Investigation of Nitron Anti-Glioma Agent, OCAST-OARS, \$3,870 first year, Aug

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, XU \$2,760 Aug

Dormer, K., Grady, B., Kopke, R., Rutel, I. and Bourne, D.W.A. Targeted Delivery of Therapeutics Nanocomposites, OCAST-OARS, second year, \$89,664 (match \$90,211) total, Aug

Kopke, R., Dormer, K., Bourne, D.W.A., Chen, K., Floyd, R., and Gao, X. Multifunctional Nanoparticles for Targeted Therapy, NIDCD R21, \$173,891 Direct Costs, Aug

Bourne, D.W.A. Provision of PK Course on CD, various \$455 Dec

2010

Dormer, K., Grady, B., Kopke, R., Rutel, I. and Bourne, D.W.A. Targeted Delivery of Therapeutics Nanocomposites, OCAST-OARS, Unfunded twelve month extension, Feb

Bourne, D.W.A. Provision of Pharmacokinetic Services, Swaasth, Inc., Oklahoma City, OK \$217 May

Bourne, D.W.A. Provision of PK Course on CD, various \$180 Apr

Bourne, D.W.A. Provision of Summer School Instruction by Distance Learning, XU \$3,400 Aug

2011

Bourne, D.W.A. Provision of PK Course on CD, various \$60 Mar

ABSTRACTS and PRESENTATIONS

(since 1995)

- Bourne, D.W.A.** 1995 Pharmacy/Medical Resources on the Information Superhighway, Continuing Education for Pharmacists, University of Oklahoma, College of Pharmacy, Oklahoma City, OK, Mar 5th
- Bourne, D.W.A., Putcha, L., and Koneru, B.** 1995 PK/PD Modeling of Scopolamine Data after I.V. and I.N. Administration, 28th Annual Higuchi Research Seminar, Lake Ozark, MO 13th Mar
- Bourne, D.W.A.** 1995 Pharmacy and the Internet, 28th Annual Higuchi Research Seminar, Lake Ozark, MO 14th Mar
- Bourne, D.W.A.** 1995 Emulsion Drug Formulations, Eight Annual Oklahoma Health Research Conference, University of Oklahoma, Oklahoma City, OK, Mar 23rd
- Bourne, D.W.A.** 1995 Pharmacy/Medical Resources on the Information Superhighway, Continuing Education for Pharmacists, University of Oklahoma, College of Pharmacy, Tulsa, OK, May 7th
- Bourne, D.W.A.** Pharmacy and the Internet, Teacher's Seminar, Workshop Leader - Two presentations, American Association of College of Pharmacy, 96th Annual Meeting, Philadelphia, PA, July 8th
- Bourne, D.W.A.** 1995 Invited speaker - Section on Libraries/Educational Resources, Developing and Maintaining WWW Pages for Publication on the Internet, American Association of College of Pharmacy, 96th Annual Meeting, Philadelphia, PA, July 9th
- Bourne, D.W.A.** 1995 Invited speaker - Section on Teachers of Biological Science, A Trek through Cyberspace, American Association of College of Pharmacy, 96th Annual Meeting, Philadelphia, PA, July 12th
- Polikandritou, M., Bourne, D., and Abbas, S.A.** 1995 A New HPLC Analysis of Amphotericin B Using an Internal Standard, American Association of Pharmaceutical Scientists Annual Meeting, Miami Beach, FL, November 8th
- Polikandritou, M., Gengler, C., Abbas, S.A., and Bourne, D.,** 1995 Comparative Studies of the Distribution of Positive and Negative Lipid-Amphotericin B Complexes in the Lungs after Aerosolization, American Association of Pharmaceutical Scientists Annual Meeting, Miami Beach, FL, November 9th
- Lee, Y.J., and Bourne, D.W.A.** 1995 Mathematical Modeling of a PK/PD Model incorporating a Nonlinear Drug-Protein Binding Model, American Association of Pharmaceutical Scientists Annual Meeting, Miami Beach, FL, November 8th
- Koneru, B., Bourne, D.W.A., and Putcha L.** 1995 Pharmacokinetic/Pharmacodynamic Modeling of Scopolamine given Intravenously and Intranasally, American Association of Pharmaceutical Scientists Annual Meeting, Miami Beach, FL, November 8th
- Bourne, D.W.A.** 1995 Invited Speaker - Publishing News on the World Wide Web, New Directions for News, Fort Worth, 14th November

- Bourne, D.W.A.** 1996 Invited Speaker - Integration of Population Pharmacokinetics, Pharmacy Staff, Tri-Services Hospital, Taipei, Taiwan, 16th April
- Bourne, D.W.A.** 1996 Pharmacokinetics and Pharmacodynamics of IV/IN Scopolamine, College of Pharmacy, National Defense Medical Center, Taipei, Taiwan, 17th April
- Bourne, D.W.A.** 1996 Invited Speaker - Delivering Pharmacy Education on the Information Superhighway, American Association of College of Pharmacy, 97th Annual Meeting, Reno, NV, July 17th
- Polikandritou, M., Abbas, S.A., and Bourne, D.W.A.** 1996 Aerosolized Liposomal Amphotericin-B in Fungal Infections, American Association of Pharmaceutical Scientists, Annual Meeting, Seattle, WA, 28th October
- Bourne, D.W.A., Pihoker, C., and Bowers, C.Y.** 1997 Pharmacokinetic and Pharmacodynamic Modeling of GHRP-2 after Intravenous and Oral Administration to Young Adults (Presentation), Southern Regional Meeting, New Orleans, LA, 7th February
- Bourne, D.W.A.** 1997 Invited Speaker - Teaching on the Internet: Some Tools and Techniques, Medical Information Science Seminar, University of California, San Francisco, CA, 7th May
- Bourne, D.W.A.** 1997 Invited Speaker - Mathematical Modeling of PK/PD Data, Departments of Biopharmaceutical Sciences and Pharmaceutical Chemistry, School of Pharmacy, University of California, San Francisco, 9th May
- Bourne, D.W.A.** 1997 Invited Speaker - An Introduction to HTML for Creating a Web Page, AACP Annual Meeting, Indianapolis, IN, 13th July
- Bourne, D.W.A.** 1997 Invited Speaker - Practical Examples using the Internet for CPE, AACP Annual Meeting, Indianapolis, IN, 13th July
- Bourne, D.W.A.** 1997 Pharmacokinetic Data Analysis and Modeling Using Computers, Three day seminar/workshop for Kemic Bioresearch Laboratories Ltd., Acadia University, Wolfville, NS, Canada, 30th Jul 30 - 1st Aug
- Bourne, D.W.A.** 1997 Pharmacokinetic Data Analysis and Modeling Using Computers, Three day seminar/workshop for Kemic Bioresearch Laboratories Ltd., Philadelphia, PA, 3rd - 5th Dec
- Bourne, D.W.A.** 1998 Invited Speaker - Pharmacokinetic in Space, 145th Annual Meeting & Exposition, APhA, Miami Beach, FL 23 Mar
- Kambhampati, S.R.P., Bourne, D.W.A., Clarke, C.R., Mandsager, R.E., Whitely, R., and Eilerts, B.D.** 1999 PK/PD Characterization of Propofol Infusion in Mixed-Breed Dogs, American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA 15 Nov
- Vanapalli, S.R., Bourne, D.W.A., and Putcha, L** 1999 A Sensitive HPLC Method for Simultaneous Determination of Promethazine and Its Three Circulating Metabolites using Electrochemical and UV Detectors, American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA 16 Nov
- Kambhampati, S.R.P., Vanapalli, S.R., Nimmagudda, R., Berens, K, Putcha, L., Cheung, J.Y., and Bourne, D.W.A.** 2000 A comparison of neural network and PK/PD prediction of core body temperature from saliva melatonin concentration., Artificial Neural Networks in Engineering Conference (ANNIE 2000), St. Louis, MO 7 Nov

- Bourne, D.W.A.** 2001 Invited Speaker - Internet Strategies for Graduate Student Recruitment, American Association of Colleges of Pharmacy, Annual Meeting, Toronto, ON, Canada, 7 Jul
- Bourne, D.W.A.** 2001 Course Resources for Teachers of Pharmaceutics (Moderator), American Association of Colleges of Pharmacy, Annual Meeting, Toronto, ON, Canada, 11 Jul
- Vanapalli, S.R., Kambhampati, S.R.P., Jelic, T., Putcha, L., and Bourne, D.W.A.** 2001 A population pharmacokinetic analysis of intranasal dosage forms for promethazine in rats, American Association of Pharmaceutical Scientists Annual Meeting, Denver, CO 22 Oct
- Kambhampati, S.R.P., Vanapalli, S.R., Cheung, J.Y., Clarke, C.R., Mandsager, R.E., Whiteley, R., Eilerts, B.D., and Bourne, D.W.A.** 2001 Comparison of PK/PD and neural network prediction of propofol infusion on EEG variables, American Association of Pharmaceutical Scientists Annual Meeting, Denver, CO 23 Oct
- Kambhampati, S.R.P., Vanapalli, S.R., Putcha, L., and Bourne, D.W.A.** 2001 Pharmacokinetic-pharmacodynamic model for melatonin, core body temperature and sleep activity, American Association of Pharmaceutical Scientists Annual Meeting, Denver, CO 23 Oct
- Bourne, D.W.A.** 2003 Moving old web site pages to new site, Section and SIG Orientation Session for Web Pages, Association of Colleges of Pharmacy, Annual Meeting, Minneapolis, MN 20 Jul
- Basmadjian, G. and Bourne, D.W.A.** 2003 Therapeutic and Structural Classification of Prescription Drugs: A Web Site to Aid Students to Understand the Relationship Between the Therapeutic and Physico-Chemical Properties of Drugs, Association of Colleges of Pharmacy, Annual Meeting, Minneapolis, MN 22 Jul
- Bourne, D.W.A.** 2003 Online Generation and Grading of Problem Sets, Association of Colleges of Pharmacy, Annual Meeting, Minneapolis, MN 22 Jul
- Bourne, D.W.A.** 2003 Teaching Presentation, LECOM, Erie, PA 15 Aug
- Bourne, D.W.A.** 2003 Pharmacokinetics in Clinical and Research Drug Product Development, IBC USA Conferences, Inc., Costa Mesa, CA 16-17 Sep
- Bourne, D.W.A.** 2003 Development and Evaluation of a Nasal Dosage Form of Promethazine, OSU College of Veterinary Medicine, Stillwater, OK 2 Oct
- Bourne, D.W.A.** 2003 Pharmacokinetics in Clinical and Research Drug Product Development, IBC USA Conferences, Inc., Cambridge, MA 9-10 Oct
- Bourne, D.W.A.** 2003 Pharmacokinetics in Clinical and Research Drug Product Development, IBC USA Conferences, Inc., South San Francisco, CA 17-18 Nov
- Bourne, D.W.A.** 2004 Creating Interactive Web Pages using JavaScript, Java applets and PHP, Association of Colleges of Pharmacy, Annual Meeting, Salt Lake City, UT 13 Jul
- Lu, YH; Bourne, DWA; Lee, YJ.** 2004 Creating a Java Gui (JGuiB) for the Pharmacokinetic/ Pharmacodynamic Computer Program- BOOMER. (abstract and poster) 2004 Annual Meeting of Pharmaceutical Society and Proceedings of Conference on Pharmaceutical Sciences and Pharmacy Education. Taipei, TAIWAN, pp.173. 18th Dec

- Bourne, D.W.A.** 2005 Pharmacokinetic, Pharmacodynamic Workshop, Altus Inc, OKC-Boston via video conference, 2nd Feb-13th Apr
- Bourne, D.W.A.** 2005 One day workshop - Pharmacokinetic Data Analysis: PK/PD Modeling Techniques/Resources From Basic, Industries to Internet, sponsored by Taiwan Society of Health-System Pharmacists, Taipei, Taiwan, 21st May
- Bourne, D.W.A. and Davison, A.M.** 2005 Enhancing Student Performance Through Web Generated Weekly Assessments and Self-paced Practice Sets in a Pharmaceutical Mathematics Course, Association of Colleges of Pharmacy, Annual Meeting, Cincinnati, OH 10th Jul
- Bentz, B.G., Maxwell, L.K., Bourne, D.W.A. and Erkert, R.** 2007 Pharmacokinetics of valacyclovir in the adult horse, *J. Vet. Intern. Med.*, **21**, 601-2
- Dormer, K., Grady, B., Bourne, D., Rutel, I., Gao, X., Chen, K., Wang, K. and Kopke, R.** 2009 Superparamagnetic-PLGA Nanoparticles for Targeted Delivery of Therapeutics to the Inner Ear, Conference on Nanotechnology for Health Care; Winthrop Rockefeller Institute/University of Arkansas, Little Rock, AR 7-10th Jan
- Wang, Y., Gao, X., Ewert, D., Bourne, D., Grady, B., Dormer, K., Chen, K. and Kopke, R.** 2009 Incorporation and Release of Various Forms of Dexamethasone in Biodegradable Poly(lactic-co-glycolic acid) Nanoparticles, 2009 MidWinter Meeting of the Association for Research in Otolaryngology. Baltimore, MD 16th Feb
- Bourne, D.W.A.** 2010 Pharmacokinetics and Biopharmaceutics Modeling: Advanced Course, 1 ½ day Workshop, Department of Pharmaceutical Sciences, University of Colorado, Aurora, CO 3-4 Dec

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- Bourne, D.W.A., Higuchi, T., and Pitman I.H.** 1974. Chemical Equilibria in Solutions of Bisulfite Salts. *J. Pharm. Sci.*, **63**(6), 865-868
- Cabana, B.E., Van Harken, D.R., Hottendorf, G.H., Doluiso, J.T., Griffen, Jr., W.O., Bourne, D.W.A., and Dittert, L.W.** 1975. The Role of the Kidney in the Elimination of Cephapirin in Man. *J. Pharmacokin. Biopharm.*, **3**(6), 419-438
- Munson, J.W. and Bourne, D.W.A.** 1976. Pharmacy College Admission Test (PCAT) as a Predictor of Academic Success. *Amer. J. Pharm. Ed.*, **40**, 237-239
- Bevill, R.F., Dittert, L.W., and Bourne, D.W.A.** 1977. Disposition of Sulfonamides in Food-Producing Animals IV: Pharmacokinetics of Sulfamethazine in Cattle following Administration of an Intravenous Dose and Three Oral Dosage Forms. *J. Pharm. Sci.*, **66**(5), 619-623
- Bevill, R.F., Koritz, G.D., Dittert, L.W., and Bourne, D.W.A.** 1977. Disposition of Sulfonamides in Food-Producing Animals V: Disposition of Sulfathiazole in Tissue, Urine, and Plasma of Sheep following Intravenous Administration. *J. Pharm. Sci.*, **66**(9), 1297-1300
- Bevill, R.F., Sharma, R.M., Meachum, S.H., Wozniak, S.C., Bourne, D.W.A., and Dittert, L.W.** 1977. Disposition of Sulfonamides in Food-Producing Animals: Concentrations of Sulfamethazine and Its Metabolites in Plasma, Urine, and Tissues of Lambs Following Intravenous Administration. *Amer. J. Vet. Res.*, **38**(7), 973-977
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- Bourne, D.W.A. and Gwilt, P.R.** 1977. Digital Computer Fitting of Multiple Dose Data. *Austral. J. Pharm. Sci.*, **6**(2), 53-54
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- Foster, T.S. and Bourne, D.W.A.** 1977. Use of a Programmable Hand-held Calculator for Clinical Pharmacokinetics. *Amer. J. Hosp. Pharm.*, **34**, 70-75
- Koritz, G.D., Bourne, D.W.A., Dittert, L.W., and Bevill, R.F.** 1977. Disposition of Sulfonamides in Food-Producing Animals: Pharmacokinetics of Sulfathiazole in Sheep. *Amer. J. Vet. Res.*, **38**(7), 979-982
- McAllister, Jr., R.G., Bourne, D.W.A., and Dittert, L.W.** 1977. The pharmacology of verapamil I. Elimination kinetics in dogs and correlation of plasma levels with effect on the electrocardiogram. *J. Pharmacol. Exp. Ther.*, **202**, 38-44
- Mercer, H.D., Rollins, L.D., Carter, G.G., Gural, R.P., Bourne, D.W.A., and Dittert, L.W.** 1977. Factors Affecting Serum Oxytetracycline Levels in Beef Calves. *J. Pharm. Sci.*, **66**(8), 1198-1200
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- Bourne, D.W.A.** 1978. Factors Influencing Drug Disposition in the Body - Biopharmaceutics. *Proc. First Sympos. Vet. Pharmacol. Therap.*, 14-28, Baton Rouge, LA, Amer. College Vet. Pharmacol. Therap.
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