

## PAUL R. HUTSON

### CURRICULUM VITAE

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### **ACADEMIC DEGREES:**

B.S.	1975	Biochemistry, U.C.L.A., Los Angeles, California
M.S.	1976	Chemistry, University of Washington, Seattle, Washington
B.S.	1979	Pharmacy, University of Washington, Seattle, Washington
Pharm.D.	1981	University of Tennessee Center for the Health Sciences, Memphis, Tennessee

**LICENSURE:** Wisconsin (Pharmacist, #11276)

**CREDENTIALS:** Board Certified in Oncology Pharmacy (BCOP)

### **POSITIONS HELD:**

1991-Present	Associate Professor (CHS), School of Pharmacy, UW - Madison
1988-1991	Assistant Professor (CHS), School of Pharmacy, UW – Madison
1988-Present	Associate Member, University of Wisconsin Clinical Cancer Center
1988-Present	Clinical Pharmacy Practitioner, University of Wisconsin Hospital and Clinics
1987-1988	Clinical Pharmacist, Medical Oncology Consult Services, West Side VA Medical Center, Chicago, Illinois
1983-1987	Clinical Pharmacist, Medical Oncology Ward, University of Illinois Hospital
1983-1988	Assistant Professor, College of Pharmacy, University of Illinois at Chicago, Chicago, Illinois
1982-83	Instructor, School of Pharmacy, University of Tennessee Center for the Health Sciences, Memphis, Tennessee
1981-83	Oncology Pharmacy Research Fellow, St. Jude Children's Research Hospital, Memphis, TN
1980-81	Poison Information Pharmacist, Southern Poison Center, Memphis, Tennessee

### **PROFESSIONAL ORGANIZATIONS AND SOCIETIES:**

American College of Pharmacometrics  
American Society of Clinical Oncology  
American College of Clinical Pharmacy  
Chair, PK/PD PRN 2005-2006  
Sec/Treas, Pain & Palliative Care PRN 2007-08  
Chair, Pain & Palliative Care PRN 2009-10  
Triangle Engineering Fraternity  
Eastern Cooperative Oncology Group  
Developmental Therapeutics Subcommittee  
Pharmacy Committee  
Gynecologic Oncology Group  
Hematology and Oncology Pharmacy Association  
Pharmacy Society of Wisconsin

## RESEARCH PUBLICATIONS

- Surles RL, Hutson PR, Valentine AL, Miles JP, Tanumihardjo SA. 3,4-didehydroretinol kinetics differ during lactation in sows on a retinol depletion regimen and the serum:milk 3,4-didehydroretinol:retinol ratios are correlated. *J Nutr* 2011; 141: 554-9. PMID: 21310863
- Rose WE, Knier RM, Hutson PR. Pharmacodynamic effect of clinical vancomycin exposures on cell wall thickness in heterogeneous vancomycin-intermediate *Staphylococcus aureus*. *J Antimicrob Chemother*. 2010 Oct;65:2149-54. PMID: 20693174
- Engle DB, Belisle JA, Gubbels JA, Petrie SE, Hutson PR, Kushner DM, Patankar MS. Effect of acetyl-L-carnitine on ovarian cancer cells' proliferation, nerve growth factor receptor (Trk-A and p75) expression, and the cytotoxic potential of paclitaxel and carboplatin. *Gynecol Oncol*. 2009;112:631-6. PMID: 20693174
- Lipinski RJ, Hutson PR, Hannam PW, Nydza RJ, Washington IM, Moore RW, Girdaukas GG, Peterson RE, Bushman W. Dose- and route-dependent teratogenicity, toxicity, and pharmacokinetic profiles of the hedgehog signaling antagonist cyclopamine in the mouse. *Toxicol Sci*. 2008;104:189-97. PMID: 18411234
- Hutson PR, Oettel K, Douglas J, Ritter M, Messing E, Staab MJ, Alberti D, Horvath D, Wilding G. Effect of medical castration on CYP3A4 enzyme activity using the erythromycin breath test. *Cancer Chemother Pharmacol*. 2008;62:373-7. PMID: 17922273
- Sansone JM, Wilsman NJ, Leiferman EM, Conway J, Hutson P, Noonan KJ. The Effect of Fluoroquinolone Antibiotics on Growing Cartilage in the Lamb Model. *J Ped Ortho* 2008; 2009; 29: 189-95. PMID: 19352246
- Tremont-Lukats IW, Hutson PR, Backonja MM. A randomized, double-masked, placebo-controlled pilot trial of extended IV lidocaine infusion for relief of ongoing neuropathic pain. *Clin J Pain*. 2006;22: 266-71. PMID: 16514327
- Dubey S, Hutson P, Alberti D, Arzooonian R, Binger K, Volkman J, Feierabend C, Wilding G, Schiller JH. Phase I study of docetaxel and topotecan in patients with advanced malignancies. *J Oncol Pharm Pract*. 2005;11:131-8. PMID: 16595064.
- Hutson PR, Love RR, Havighurst TC, Rogers E, Cleary JF., Effect of exemestane on tamoxifen pharmacokinetics in postmenopausal women treated for breast cancer. *Clin Cancer Res* 2005; 11: 8722-7. PMID: 16361559
- Love RR, Hutson PR, Havighurst TC, and Cleary JF. Endocrine effects of tamoxifen plus exemestane in postmenopausal women with breast cancer. *Clinical Cancer Research* 2005;11: 1500-3. PMID:

15746052.

- Forouzannia A, Schiller J, Berlin J, *et al.* A phase I study of topotecan, as a radiosensitizer, for thoracic malignancies. *Lung Cancer* 2004;*44*:111-9. PMID: 15013589.
- Hutson PR, Crawford ME, and Sorkness RL. Liquid chromatographic determination of hydroxyproline in tissue samples. *J Chromatogr B Analyt Technol Biomed Life Sci* 2003;*791*:427-30. PMID: 12798203.
- Mould DR, Holford NH, Schellens JH, *et al.* Population pharmacokinetic and adverse event analysis of topotecan in patients with solid tumors. *Clin Pharmacol Ther* 2002;*71*:334-48. PMID: 12011819.
- Cleary J, Gordon DB, Hutson P, Ward S. Incidence and characteristics of naloxone administration in medical oncology patients with cancer pain. *J Pharmaceutical Care Pain Symptom Control* 2000; 8(2): 65-73. PMID:
- Jolin JA, Hutson PR, Schink JC. Methotrexate sequestration in an ovarian cyst. *Gynecol Oncol* 72, 113-115 (1999) PMID: 9889042.
- Hutson PR, Tutsch KD, Rago R, Arzoomanian R, Alberti D, Pomplun M, Church D, Marnocha R, Cheng AL, Kehrl N, Wilding G. Renal clearance, tissue distribution, and CA-125 responses in a Phase I trial of suramin. *Clin Ca Res* 1998; 4(6) 1429-1436. PMID: 9626459.
- Kanner AM, Bourgeois BF, Hasegawa H, and Hutson P. Rapid switchover to carbamazepine using pharmacokinetic parameters. *Epilepsia* 1998;*39*:194-200. PMID: 9578000
- McCarthy DO, Murray S, Galagan D, Gern JE, Hutson PR. Meperidine attenuates the secretion but not the transcription of interleukin 1 beta in human mononuclear leukocytes. *Nursing Research*. 47(1):19-24, 1998. PMID: 9478180.
- Glen VL, Hutson PR, Kehrl NJ, Boothman DA, Wilding G. Quantitation of beta-lapachone and 3-hydroxy-beta-lapachone in human plasma samples by reversed-phase high-performance liquid chromatography. *Journal of Chromatography B: Biomedical Applications*. 692(1):181-6, 1997. PMID: 9187398.
- Berlin J, Tutsch KD, Hutson P, Cleary J, Rago RP, Arzoomanian RZ, Alberti D, Feierabend C, Wilding G. Phase I clinical and pharmacokinetic study of oral carboxyaminotriazole, a signal transduction inhibitor. *J Clin Oncol* 1997; 15: 781-789. PMID: 9053505.
- Schiller JH, Kim KM, Hutson PR, DeVore R, Glick J, Stewart J, Johnson D. Phase II study of topotecan in patients with extensive-stage small cell carcinoma of the lung: An Eastern Cooperative Oncology Group Trial (E1592). *J Clin Oncol* 1996; 14: 2345-2352.
- Planchon SM, Wuerzberger S, Frydman B, Witiak DT, Hutson P, Church DR, Wilding G, Boothman DA. Beta-lapachone-mediated apoptosis in human promyelocytic leukemia (HL-60) and human prostate cancer cells: A p53-independent response. *Cancer Res* 1995; 55: 3706-3711. PMID : 7641180.
- Vail DM, Elfarrar AA, Panciera DL, Hutson PR. Pharmacokinetics and short-term clinicopathologic changes after intravenous administration of a high dose of methimazole in dogs. *Am J Vet Res*, *55*:1597-1601, 1994. PMID: 7879985.
- McCarthy DO, Daun JM, Hutson, PR. Meperidine attenuates the febrile response to endotoxin and interleukin-1 in rats. *Nursing Res* 1993; 42: 363-365. PMID: 8247820.
- Hutson PR, Tutsch K, Spriggs D, Christian M, Rago R, Mutch R, Wilding G. Evidence of an absorption phase after short intravenous suramin infusions. *Cancer Chemother Pharmacol* 1993; 31:495-499. PMID: 8453691.
- Mutch RS, Hutson PR. Intradermal carboplatin and ifosfamide extravasation in the mouse. *Cancer* 1992;

72:850-853. PMID: 1643617

Mutch RS, Hutson PR. Stability of a parenteral formulation of antipyrine and caffeine. *Am J Hosp Pharm.* 1991; 48:1267-70. PMID: 1858812.

Hutson PR, Baumann TJ, Lavoie RR, Mullane MR. Morphine concentrations in plasma, ascites fluid, and nasogastric fluid during high-dose intravenous morphine infusion. *Clin Pharm.* 1988; 7:842-845. PMID: 3197385.

Shenep JL, Kalwinsky DK, Hutson PR, George SL, Dodge PK, Blankenship KR, Thornton D. Efficacy of oral sucralfate suspension in the prevention and treatment of chemotherapy-induced mucositis. *J Pediat.* 1988; 113:758-763. PMID: 3050005.

Manny RP, Hutson PR: Aminoglycoside volume of distribution in hematology-oncology patients. *ClinPharm.* 1986; 5:629. PMID: 3742952.

Sinkule JA, Hutson PR, Hayes FA, Etcubanas E, Evans WE: Pharmacokinetics of etoposide (VP-16) in children and adolescents with refractory solid tumors. *Cancer Res* 1984; 44:3109-3113. PMID: 6539169.

Evans WE, Stewart CF, Hutson PR, Cairnes DA, Bowman WP, Crom WR: Disposition of intermediate-dose methotrexate in children with acute lymphocytic leukemia. *Drug Intell Clin Pharm* 1982; 16:839-842. PMID: 6959800.

Evans WE, Crom WR, Sinkule JA, Yee GC, Stewart CF, Hutson PR: Clinical pharmacokinetics of antineoplastic drugs in children. *Drug Metab Rev* 1983; 14:847-886. PMID: 6197269.

Evans WE, Hutson PR, Stewart CF, Cairnes DA, Bowman WP, Rivera G, Crom WR: Methotrexate cerebrospinal fluid and serum concentrations following intravenous infusion of intermediate-dose methotrexate. *Clin Pharmacol Ther* 1983; 33:301-307. PMID: 6600662.

## **REVIEWS:**

Mutch RS, Hutson PR. Levamisole in the Adjuvant Treatment of Colon Cancer. *Clin Pharm.* 1991; 10(2):95-109. PMID: 2009737.

Hutson PR. AIDS and the R.Ph.'s role in prevention/treatment. *Drug Topics* 1987; Dec. 14:104-111.

Hutson PR. Small cell lung cancer. *Highlights on Antineoplastic Drugs* 1986; 4(1):2-3, 10-11.

## **BOOK CHAPTERS:**

PSAP-VII Chapter Reviewer: Pancreatic Carcinomas and Endocrine Malignancies. 2010

Hutson PR. Red and white blood cell tests. In: Lee M, ed. Basic skills in interpreting laboratory tests. American Society of Health-System Pharmacists, Bethesda, 4<sup>th</sup> ed. 2009.

Hutson PR. Red and white blood cell tests. In: Lee M, ed. Basic skills in interpreting laboratory tests. American Society of Health-System Pharmacists, Bethesda, 3<sup>rd</sup> ed. 2004, 441-68.

Hutson PR, Tutsch KD, Wilding G. Pharmacokinetic analysis and adaptive control of suramin with ADAPT-II. In: D'Argenio DZ, ed. Advanced Methods in Pharmacokinetics and Pharmacodynamics Systems Analysis. Plenum Press. New York, 2nd ed. 1995, 177-188.

Hutson PR, Cobleigh MA. Squamous head and neck cancer. In: DiPiro JT, Talbert RL, Hayes PE, Yee GC, Posey LM, eds. Pharmacotherapy: A pathophysiologic approach. Elsevier Science. New York, 1989.

## **ABSTRACTS:**

R. R. Love, S. A. Anderson, J. F. Cleary, P. R. Hutson. Lipid, lipoprotein, alkaline phosphatase, osteocalcin, and symptom effects of adding exemestane therapy in postmenopausal women taking adjuvant tamoxifen for breast cancer. Proc ASCO 22: 2003; 22: #236.

Hutson PR, Eickhoff JC, Anderson SA, Cleary JF, Love RR. Pharmacokinetic and pharmacodynamic interaction of adjuvant tamoxifen and exemestane in postmenopausal women treated for early stage breast cancer. Proc San Antonio Breast Cancer Symposium, 2002; 25: #260.

Stella, D Alberti, R Arzooonian, K Binger, J Volkman, C Feierabend, K Hampton, P Hutson, K Tutsch, G Wilding, J H Schiller, University of Wisconsin Comprehensive Cancer Center, Madison, WI. Phase I Trial of Docetaxel and Topotecan in Patients with Advanced Malignancies. Proc ASCO 2001; #2880.

Afshin Forouzannia, Minesh P Mehta, Joan H Schiller, Paul R Hutson, Dona B Alberti, Christine A Feierabend, Nancy J Feierabend, Kimberly A Binger, Steven P Howard, Marcia L Pomplun, A S Wahamaki-Dresen, Thomas A McFarland, Rhoda Z Arzooonian, George Wilding, Phase I Study of Topotecan and Thoracic Radiation. Proc ASCO 2001; 20: #2826

Oettel KR, Hutson PR, Douglas JA, Bianco JA, Ritter MA, Staab MJ, Horvath DL, Miller KA, Alberti DB, VanUmmersen L, Hammes RJ, Wilding G. The effect of testosterone on drug metabolism in men with prostate cancer. Proc ASCO 2000; 19: #1477.

Hutson PR, Tutsch KD, Pomplun M, Robins HI, Tiffelaar CL, Alberti DB, Feierabend CA, Rieck N, Arzooonian R, Wilding G. Carboplatin dosing in obese patients. Proc ASCO 2000; 19: #725.

Berlin JD, Schiller JH, Mehta MP, Hutson PR, Boothman DA, Alberti DB, Feierabend CA, Kehrl NJ, King DA, Kavka JE, Pomplun ML, Wahamaki AS, Storer S, Arzooonian RZ, Wilding G. Phase I study of topotecan and thoracic radiation. Proc ASCO 1999; 18: #670.

Tutsch KD, Berlin J, Arzooonian RZ, Alberti D, Feierabend C, Simon K, Hutson P, Cleary J, Stewart J, Wilding G. Phase I clinical and pharmacokinetic trial of an oral micronized formulation of carboxyamido-triazole (CAI). Proc AACR 1996; 37:A1133.

Berlin J, Schiller JH, Hutson PR, Feierabend C, Simon K, Alberti D, Arzooonian R, Boothman D, Glen V, Mehta M, Wilding G. Phase I clinical and pharmacokinetic study of daily topotecan with thoracic irradiation. Proc AACR 1996; 37: A1131.

Cleary J, Tutsch KD, Berlin J, Arzooonian RZ, Alberti D, Feierabend C, Simon K, Hutson P, Stewart J,

Wilding G. Phase I and pharmacokinetic study of rebeccamycin analog (NSC 655649). Proc AACR 1996;37:A1132.

Hutson PR, Kim K, Johnson D, Schiller JH. Pharmacodynamic evaluation of the response of extensive small cell cancer to topotecan. Proc ASCO 1995, #1481.

Wilding G, Arzoomanian RZ, Alberti D, Feierabend C, Rago R, Cleary J, Hutson P, Berlin J, Tutsch KD. Phase I clinical and pharmacokinetic study of oral carboxamidotriazole (CAI). Proc ASCO 1995; 14: A1554.

Hutson PR, Kehrl N, Alberti D, Arzoomanian R, Feierabend C, Tutsch K, Wilding G. Suramin does not inhibit hepatic P450IID6 metabolism. Proc AACR 1994; 35:#1446.

Hutson PR, Tutsch KD, Rago R, Arzoomanian R, Alberti D, Feierabend C, Pomplun M, Spriggs D, Wilding G. Suramin clearance prediction by limited sampling methods or by creatinine clearance. Proc AACR, 1993; 34:#2367.

Hutson PR, Rago R, Arzoomanian R, Alberti D, Tombes MB, Spriggs D, Wilding G. Use of probe drugs to evaluate the effect of suramin on P450 activity. Proc AACR, 1992, #3180.

Rago R, Tutsch K, Pomplun M, Hutson P, Wilding G. Human plasma and tissue levels of suramin. Proc AACR, 1992, #2559.

Hutson P, Arzoomanian R, Tombes MB, Alberti D, Tutsch K, Mutch R, Rago R, Cheng AL, Spriggs D,

Wilding G. Test dose guided rapid IV suramin infusions with weekly IV maintenance doses. Proc Proc ASCO, 1991, #266.

Hutson PR, Mutch RS, Tormey D. Carboplatin and ifosfamide extravasation in the mouse. Proc AACR, 1991, #2521.

Hutson PR, MacDonald L, Mutch RS. Pilot evaluation of nifedipine and urinary steroid excretion. ASHP Annual Meeting 1991, FGF-1.

Hutson PR, Horvath JM, Vasquez E. Ear densitometer vs. HPLC vs. colorimetry for analysis of indocyanine green in human plasma. Pharmacotherapy 1988; 8:126 (#54).

Hutson P, Evrard M, Cobleigh M, Lad T, McGuire WP, Cichock G: Pharmacokinetic and pharmacodynamic studies of spirogermanium in advanced non-small cell lung cancer. Proc ASCO 1985; 5:(149) 38.

Hutson PR, Sinkule JA, Hayes Fa, Evans WE: Pharmacokinetics of VP-16 in children with refractory solid tumors (ST). Drug Intell Clin Pharm 1983; 17:442.

Evans WE, Crom WR, Stewart CF, Hutson PR, Sinkule JA, Yee GC: Methotrexate clearance influences response to therapy in children with standard risk acute lymphocytic leukemia (ALL). Proc Amer Soc Clin Oncol 1983; 2:27 (C-104).

Stewart CF, Crom WR, Bowman WP, Hutson PR, Evans WE: Influence of serum concentration on renal clearance of methotrexate in children with acute lymphocytic leukemia. Drug Intell Clin Pharm 1982; 16:483.

Evans WE, Crom WR, Stewart CF, Hutson PR, Cairnes DA, Rivera G, Bowman WP: Pharmacokinetics of intermediate-dose methotrexate (IDM) in children with leukemia. Proc Amer Soc Clin Oncol 1982; 1:11 (C-43).

Evans WE, Hutson PR, Stewart CF, Cairnes DA, Bowman WP, Crom WR: Correlation of methotrexate "free" and total serum concentrations. Clin Pharmacol Ther 1982; 31:223.

**JOURNAL REFEREE PANEL:**

Cancer Chemotherapy and Pharmacology  
Oncology  
Biopharmaceutics and Drug Disposition  
American Journal of Health-System Pharmacy  
Pharmacotherapy

#### **GRANT REVIEW COMMITTEES**

NIH-NCI          Special Study Section - P20 Cancer Center CAM Program Grant (Feb 2001)

NIH-NCCAM      Special Study Section - R21/R01:    Drug-Herbal Interactions (April 2001)

NIH                Special Emphasis Grant Review Panel      April 2002  
Interactions of botanical drugs and drugs used to treat HIV”

Susan G. Komen Breast Cancer Research Foundation. 2005.  
Post-doctoral Fellowship pharmacology grants

#### **PROTOCOL REVIEW COMMITTEE MEMBERSHIP**

UW ICTR Scientific Review Committee (formerly GCRC Protocol Review Committee)  
1991 – 2010

ECOG (Eastern Cooperative Oncology Group)  
1995 – Present

UWCCC CAC (Clinical Affairs Committee)  
1992 – 2004 (Vice Chair, 2001 – 2004)

UWCCC Experimental Therapeutics Disease-oriented Working Group  
1988 – 2005

UWCCC Palliative Care and Supportive Oncology Working Group  
2003 – Present

## DATA MONITORING COMMITTEE MEMBERSHIP

UW ICTR Data Monitoring Committee  
2010 – Present

UW Center for Health Enhancement Systems Studies (CHESS) - UO1  
2005 – Present (Chair)

Meditation and exercise for the prevention of upper respiratory infection" (MEPARI) – RO1  
Bruce Barrett, MD, PhD. P.I.  
2008 – 2010 (Chair)

## GRADUATE COMMITTEE MEMBERSHIP

(\* Completed defense)

	<u>Student</u>	<u>Supervisor</u>	<u>Department</u>
<u>Past</u>	Zhilong Yuan*	Richard Shapiro	Biostatistics and Bioinformatics
	Min-Huang Chang*	William Karasov	Nat Res – Wildlife Ecology
	Anne Escaron*	Sherri Tanumihardjo	Nutritional Sciences
	Rebecca Surles*	Sherri Tanumihardjo	Nutritional Sciences
	Sara Arscott*	Sherri Tanumihardjo	Nutritional Sciences
<u>Present</u>	Napaporn Riabroy	Sherri Tanumihardjo	Nutritional Sciences
	Paige Wiecinski	Joel Pederson	Molecular Toxicology / Soils

## UNIVERSITY COMMITTEES:

Academic Staff Divisional Review Committee (2009 - Present)  
Chair (2009 – Present)

## STUDENT GROUP ADVISING

CPI (Christian Pharmacists Fellowship International)  
Phi Lambda Sigma (Pharmacy leadership fraternal group)

## SCHOOL OF PHARMACY AND UW HOSPITAL COMMITTEES (current)

Area 3 (Curriculum) (School of Pharmacy Reaccreditation review 2010-11)  
Executive Committee (School of Pharmacy)

## OTHER SERVICES / ACTIVITIES

Board Member, Edgewood Campus Grade School (2003 – 2006)  
CubMaster, West Middleton Cub Scout Pack 640 (2001 – 2009)  
Den Leader, Den 4, Pack 640 (2005 – 2010)  
Assistant Scoutmaster, Troop 640 (2006 – Present)



**RECENT PRESENTATIONS (Date, Sponsor, and Location)**

Practical Considerations in the use of Methadone for Analgesia November 2011 UW Extension Services in Pharmacy	Madison
Population Pharmacokinetics in Clinical Research and Clinical Practice October 2011 American College of Clinical Pharmacy	Pittsburgh
Use of Methadone for the Treatment of Pain January 2011 UW Pharmacy Extension Services Webinair	
Illustrations in Opioid Dosing in Chronic Cancer Pain July 2010 UW Hospital Department of Nursing	Madison
Opioid Titration and Opioid Switching for Chronic Pain April 2010 UW Pharmacy Extension Services Webinair	
Medical Treatment of Secondary Lymphedema October 2008 UW Paul P Carbone Cancer Center Grand Rounds	Madison
Dietary Supplements for the treatment of Lymphedema August 2008 National Lymphedema Network	San Diego
Getting Started in Practical Pharmacy Research June 2008 Hematology Oncology Pharmacy Association	Anaheim
Dietary Supplements in the Prevention and Adjuvant Treatment of Lung Cancer June 2007 UW Lung Cancer Support Group	Madison
Dietary Supplements in the Prevention and Adjuvant Treatment of Breast Cancer Feb 2007 American College of Radiation Oncology	San Diego
Weight-based Dosing of Chemotherapy Agents Oct 2006 American College of Clinical Pharmacy	Dallas
Pharmacology of Opioids Oct 2006 Trainers training conference	Brasov, Romania
Scientific evidence for medical opioid use March 2006 Conference on Implementing a Modern and Balanced Opioid Legislation in Romania	Bucharest
Palliative Care Workshop for Medical Students 2005 - Present UW School of Medicine	Madison
Herbals and nutritional therapies – Men's Health Nov 2004 UW Pharmacy Extension Pharmacy Institute	Madison
UW School of Medicine Clinical Investigator Preparatory Program (CIPP) July 2004 Incorporating pharmacokinetics and pharmacodynamics in clinical studies July 2003 Research using Alternative Medicine	Madison
Challenges of palliative care workshop: Sponsored by the UW Schools of Medicine and Nursing Oct 2003 Using Complementary Therapies in Palliative Care May 2001 Cancer-induced fatigue	Madison Madison

Practical review of complementary and alternative therapies  
Dec 2000 UW Pharmacy Extension Teleconference

Madison