

DR. GREG KOCHAK

JOURNAL PUBLICATIONS

Sarkar, A.B. and Kochak, G.M., "HPLC Analysis of Aliphatic and Aromatic Dicarboxylic Acid Cross-Linkers Hydrolyzed from Carbohydrate Polyesters for Estimation of the Molar Degree of Substitution", *Carbohydrate Polymers*, 59: 305 (2005).

Kochak, G.M., and Mangat, S., "Transepithelial Ultrafiltration and Fractal Power Diffusion of D-Glucose in the Perfused Rat Intestine", *Biochim. Biophys. Acta, Biomembranes* 1567:87 (2002).

Kochak, G.M., Page, J.G., Buchanan, R.A., Peters, R., and Padgett, C.S., "Steady State Pharmacokinetics of Zonisamide, An Antiepileptic for Refractory Complex Partial Seizures", *J. Clin. Pharmacol.*, 38:166 (1998).

Morgan, J.M., Piraino, A.J., Saris, S.D., Graham, C.S., Hirschhorn, W.L., Kochak, G.M., and Choi, R.L., "Inhibition of Angiotensin-Converting Enzyme with Libenzapril in Normotensive Males", *J. Clin. Pharmacol.*, 34:1177 (1994).

Choi, R.L., Sun, J.X., and Kochak, G.M., "Effect of Food on the Relative Bioavailability of Fadrozole Hydrochloride", *Biopharm. Drug Dispos.*, 14: 779 (1993).

Kochak, G.M., Pai, S., Iannucci, R., Honc, F., Kachmar, D., Perrino, P., and Egger, H., "Prinomide Tromethamine Pharmacokinetics: Mutually Dependent Saturable and Competitive Protein Binding Between Prinomide and its Own Metabolite", *Pharm. Res.*, 10: 49 (1993).

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Thakker, K.M., Mangat, S., Wagner, W., Castelanna, J., and Kochak, G.M., "Effect of Food and Relative Bioavailability Following Single Doses of Voltaren 150 mg Hydrogel Bead Capsules in Healthy Subjects", *Biopharm. Drug Dispos.*, 13: 327 (1992).

Kochak, G.M., Sun, J.X., Choi, R.L., and Piraino, A.J., "Pharmacokinetic Disposition of Multiple-Dose Transdermal Nicotine in Healthy Adult Smokers", *Pharm. Res.*, 9: 1451 (1992).

Thakker, K.M., Mangat, S., Garnett, W.R., Levy, R.H., and Kochak, G.M., "Comparative Bioavailability and Steady State Fluctuations of Tegretol Commercial and Carbamazepine OROS Tablets in Adult and Pediatric Epileptic Patients", *Biopharm. Drug Dispos.*, 13: 559 (1992).

Kochak, G.M., Berner, B., Dewitte, W., and Leal, M., "Variational Analysis of the Transdermal Delivery Rate From Two Prototypical Ethanol-Water Nitroglycerin TTS Devices and Transdermal Nitro 10 in the Normal Population", *J. Pharmacokinetic. Biopharm.*, 20: 443 (1992).

Lipton, A., Harvey, H.A., Demers, L.M., Hanagan, J.R., Mulagha, M.T., Kochak, G.M., Fitzsimmons, S., Sanders, S.I., and Santen, R.J., "A Phase I Trial of CGS 16949A - A New Aromatase Inhibitor", *Cancer*, 65: 1279 (1990).

Kochak, G.M., Choi, R.L., and deSilva, J.K., "Pharmacodynamic Dependent Disposition of the Angiotensin Converting Enzyme Inhibitor, Libenzapril", *J. Clin. Pharmacol.*, 30: 138 (1990).

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Kochak, G.M., Smith, R.A., Choi, R.L., John, V., Tipnis, V., Honc, F., deSilva, J., and Weidler, D., "Intra- and Intersubject Variability: Mixed Effects Statistical Analysis of Repeated Doses of an Angiotensin Converting Enzyme Inhibitor, CGS 16617", *Pharmaceutical Res.*, 6: 328 (1989).

Kochak, G.M., Rakhit, A., Thompson, T.N., and Hurley, M., "Pentopril-Cimetidine Interaction Caused by a Reduction in Hepatic Blood Flow", *J. Clin. Pharmacol.*, 28: 222 (1988).

Kochak, G.M., Rakhit, A., Honc, F., and Mahoney C.J., "Pharmacokinetic Disposition of the Novel Atypical Anxiolytic CGS 9896 in the Cynomolgus Monkey", *Psychopharmacology*, 94: 332 (1988).

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Kochak, G., Honc, F., and Waldes, L., "Simultaneous Determination of 2-(p-chlorophenyl)-pyrazolo (4,3-c) quinoline-3(5H)-one (CGS 9896) and its 6-, 7-, and 8-Hydroxy Metabolites in Plasma, Urine, and Bile by High Performance Liquid Chromatography", *J. Chromatogr.*, 378: 242 (1986).

Kochak, G.M., and Mason, W.D., "The Pharmacokinetics of Methyl dopa in Dogs", *J. Pharmacokin. and Biopharm.*, 13: 405 (1985).

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Kochak, G., and Honc, F., "An Improved Gas-Liquid Chromatographic Method for the Determination of Baclofen in Plasma and Urine", *J. Chromatogr.*, 310: 319 (1984).

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Mason, W.D., Kochak, G.M., and Winer, N., "Decreased Renal Clearance of Atenolol with Exercise", *J. Pharm. Sci.*, 69: 344 (1980).

Winer, N., Mason, W.D., Carter, C.H., Willoughby, T.L., Kochak, G.M., Cohen, I., and Bell, R., "Effect of Atenolol on Blood Pressure, Heart Rate, Renin, and Norepinephrine During Exercise", *Clin. Pharmacol. and Ther.*, 26: 315 (1979).

Mason, W.D., Winer, N., Kochak, G.M., Bell, R., and Cohen, I., "Pharmacokinetics and Absolute Bioavailability of Atenolol", *Clin. Pharmacol. and Ther.*, 25: 408 (1979).

POSTER PRESENTATIONS

Sarkar, A.B. and Kochak, G.M., "Synthesis of nanoparticles with hydrophilic core and surface", *The AAPS Journal*, 9:S2 (2007).

Sarkar, A.B. and Kochak, G.M., "Incorporation into and release of model protein lysozyme from carbohydrate nanoparticles", *The AAPS Journal*, 9:S2 (2007).

Sarkar, A.B. and Kochak, G.M., "Carbohydrate platforms for the synthesis of nanocapsules with hydrophilic colloidal cores", *The AAPS Journal*, 6 (2004).

Sarkar, A.B. and Kochak, G., "HPLC Analysis of Aliphatic and Aromatic Dicarboxylic Acids from Carbohydrate Polyesters", APhA Academy of Pharmaceutical Research and Sciences, APhA2003, New Orleans, LA, 2003, *J. Amer. Pharm. Assoc.*, 43 (2003).

Pujari, V., Eley, J., and Kochak, G., "In-Vivo Studies of Polymethacrylate Nanospheres Containing Coumarin-6", APhA Academy of Pharmaceutical Research and Sciences, APhA2003, New Orleans, LA, 2003, *J. Amer. Pharm. Assoc.*, 43 (2003).

Page, J.G., Kochak, G.M., Polvino, W.J., and Buchanan, R.A., "Multiple Dose Zonisamide Metabolism", American Epilepsy Society, 1996, *Epilepsia* 37(Suppl 5): 172 (1996).

Morgan, J.M., Piraino, A.J., Saris, S.D., Graham, C.S., Good, W.R., John, V.A., Kochak, G.M., and Choi, R.L., "Inhibition of Angiotensin I Converting Enzyme with CGS-16617: A Dynamic Study", American Society of Clinical Pharmacology and Therapeutics, Orlando, Fla., 1992, *Clin. Pharmacol. Ther.*, 51: 131 (1992).

Comfort, A.R., Dinh, S.M., Otte, J.H., Shevchuk, I., Kochak, G., and Berner, B., "In vitro and in vivo correlation of ethanol-enhanced nitroglycerin TTS", Controlled Release Society, Orlando, Fla., *Proceedings of the 19th International Symposium on Controlled Release of Bioactive Materials*, 244 (1992).

Kurihara-Bergstrom, T., Nightingale, J., Kochak, G., Tipnis, V., Rubin, P., Wilding, I., and Davis, S., "Transdermal Delivery of Buprenorphine in Man", American Association of Pharmaceutical Scientists, San Antonio, TX, 1992, *Pharm. Res.* 9: S170 (1992).

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Tang, JP., Xu, ZQ., Melethil, S., Douglas, F., Rakhit, A., and Kochak, G., "Osmotic Pressure and Brain Uptake of Libenzapril in Rats", American Association of Pharmaceutical Scientists, Washington, DC, 1991, *Pharm. Res.*, 8: S278 (1991).

Kochak, G.M., "Population Characteristics of Biological Systems Influenced by Multi-Component Random and Uniform Variation", American Association of Pharmaceutical Scientists, Washington , DC, 1991, *Pharm. Res.*, 8: S301 (1991).

Kochak, G.M., Thakker, K.M., Mangat, S., Faleck, H., Cook, T., Garnett, W., Pellock, J., Farwell, J., and Levy, R., "Steady-State Bioavailability and Fluctuations of Carbamazepine Following Crossover Administration of q.i.d. Conventional Tegretol Tablets and b.i.d. Tegretol OROS Tablets", American Epilepsy Society, Philadelphia, Pa., 1991, *Epilepsia* 32: 3 (1991).

Thakker, K.M., Mangat, S., Wagner, W., and Kochak, G., "Absolute Bioavailability, Effect of Food and In Vitro-In Vivo Correlations for Once Daily Controlled Release Voltaren (Diclofenac Sodium) Dosage Form", 4th European Congress of Biopharmaceutics and Pharmacokinetics, Geneva, Switzerland, 1990, *Eur. J. Drug Metab. Pharmacokin.*, Special Ed.: 6(posters abstracts), (1990).

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Furst, D., Egger, H., Kochak, G., Luders, R., Brunner, L., Mason, D., and John, V., "Multiple Dose Kinetics of Prinomide in Rheumatoid Arthritic Patients", American Society of Clinical Pharmacology and Therapeutics, Nashville, Tenn., 1989, *Clin. Pharmacol. Ther.*, 45: 150 (1989).

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ORAL PRESENTATIONS

University of New Mexico, Cancer Research and Treatment Center, Colleges of Medicine and Pharmacy, "Synthesis of Novel Carbohydrate Platforms and Nanoencapsulation of Proteins: Circulating Systems with Hydrophilic Interfaces" (2007).

National Institutes of Health, "Carbohydrate Nanoparticles: A Novel Delivery Platform for the Systemic Route" (2006).

Cleveland Clinic Foundation, Department of Biomedical Engineering, "Advances in Nanotechnology for Drug Delivery" (2005).

University of Alabama at Birmingham, Department of Biomedical Engineering, "Mutually Coupled Convective and Diffusive Drug Transport Through Biological Membranes" (2000).

University of Maryland, College of Medicine, "Quantitative Analyses of Pharmacokinetic Stability in Clinical Research" (1999).

Long Island University, Arnold and Marie Schwartz College of Pharmacy, "A Molecular Theory of Momentum Transfer in Permselective Convection Streams" (1994).

U.S. Food and Drug Administration, "Variational Analysis and Regulatory Considerations for Bioavailability/Bioequivalence Assessment" (1993).

State University of New York at Buffalo, College of Pharmacy, "Inter- and Intrasubject Variability: Theory and Application to Biological Systems" (1990).

Virginia Commonwealth University, College of Pharmacy, "Convective and Diffusive Permeability in Biologic Membranes" (1989).

Kochak, G.M., "A Perspective on Variational Analysis in Drug Development", *International Pharmaceutical Federation BIO-International '92*, Bad Homburg, Germany (1992).

Leal, M., Joshi, J., Gaudry, D., Pirano, A., Morgan, J., Kochak, G., Hayes, M., and Powell, M., "Simultaneous GC/MS Analysis of Labeled and Unlabeled Nitroglycerin in Human Plasma for Determination of Transdermal Flux Rates", *Proceedings of the 39th ASMS Conference on mass spectrometry and applied topics*, Nashville, Tenn. (1991).

Kochak, G.M., "Intra- and Inter- Subject Statistical Variations: Theory and Application to Bioavailability Trials", *Long Island University/Food and Drug Administration Symposia on Bioavailability/Bioequivalency: Scientific and Regulatory Issues*, Brooklyn, NY (1990).

Lipton, A., Harvey, H.A., Demers, L.M., Hanagan, J.R., Mulagha, M.T., Kochak, G.M., Fitzsimmons, S., Sanders, S.I., and Santen, R.J., "A Phase I Trial of CGS 16949A - A New Aromatase Inhibitor", *16th International Congress of Chemotherapy*, Jerusalem, Israel, (1989).

Reydel-Bax, P., Choi, R.L., Kochak, G.M. and Hurley, M., "Effects of Food on the Bioavailability of CGS 16617, an Angiotensin Converting Enzyme Inhibitor, in Healthy Subjects", *First Eastern Regional Meeting of the American Association of Pharmaceutical Scientists*, Atlantic City, NJ (1987).

Honc, F., Kochak, G.M. and Tipnis, V., "Mechanism of CGP 31608 Degradation and Methods of Stabilization", *First Eastern Regional Meeting of the American Association of Pharmaceutical Scientists*, Atlantic City, NJ (1987).

Kochak, G.M., Rakhit, A., Honc, F. and Mahoney, C.J., "Pharmacokinetic Disposition of the Novel Atypical Anxiolytic CGS 9896 in the Cynomolgus Monkey", *Third European Congress of Biopharmaceutics and Pharmacokinetics*, Freiburg, Germany (1987).

Kochak, G.M. and Rakhit, A., "Metabolite Pharmacokinetics for Orally Administered Prodrugs", *First National Meeting of the American Association of Pharmaceutical Scientists*, Washington D.C. (1986).

Kochak, G.M., "Dosing Schedules - Pharmacokinetic Basis of Controlled Release Products Including Newer, Novel Drug Delivery Systems", *University of Missouri-Kansas City Centennial Symposium*, Kansas City, MO (1985).

Kochak, G.M., Honc, F. and Waldes, L., "The Pharmacokinetics of Baclofen in Man", *37th National Meeting of the Academy of Pharmaceutical Sciences*, Philadelphia, PA (1984).

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Kochak, G.M., "The Pharmacokinetics of Intravenously Administered Methyldopa in the Dog", *33rd National Meeting of the Academy of Pharmaceutical Sciences*, San Diego, CA (1982).

Kochak, G.M., "Determination of Free Methyldopa in Plasma by High Pressure Liquid Chromatography with Electrochemical Detection", *International Liquid Chromatography Symposium III*, Boston, MA (1979).

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