

AAPS Annual Meeting 2003, Salt Lake City

A Significant Increase In The Transport And Oral Bioavailability Of Paracellular Markers, Antiviral And Immunosuppressant Drugs Achieved By Reversible Tight Junction Opening With Delta G, A Novel Absorption Enhancer

Noha N. Salama¹, Alessio Fasano², Natalie D. Eddington¹

¹ *Department of Pharmaceutical Sciences, University of Maryland, School of Pharmacy,*

² *Center for Vaccine Development, University of Maryland, School of Medicine*

In Vitro And In Vivo Functional Evaluation Of The Enaminones As A Novel Series Of P-Glycoprotein Modulators For Different Therapeutic Agents

Noha N. Salama¹, Kenneth Scott², Natalie D. Eddington¹

¹ *Department Of Pharmaceutical Sciences, School Of Pharmacy, University Of*

Maryland, ² *Department of Pharmaceutical Sciences, College of Pharmacy, Howard University*

The Role Of Calcium Silicate In Developing Directly Compressible "Fast-Melt" Tablets

Larry Augsburger¹, Shadi Madieh¹, Dev K. Mehra², Rami Chittamuru², Rod Leigh², Jennifer Wellman²

¹ *University of Maryland School of Pharmacy,* ² *J.M. Huber Corporation*

A Hybrid Expert System-Neural Network ("Expert Network") For Capsule Formulation Support For Biopharmaceutical Classification System (Bcs) Class Ii Drugs: Ii. Generalization

Wendy I. Wilson¹, Yun Peng¹, Larry L. Augsburger¹

¹ *University of Maryland - Baltimore*

Size Dependent Release Of Plasmid DNA From Silk-Elastinlike Hydrogels

Mohamed Haider¹, Hamidreza Ghandehari¹

¹ *Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy*

Pharmacokinetics And Tissue Distribution Of Gentamicin After Single And Multiple Doses In Holstein Steers

Manoj Khurana¹, Keesla D Moulton², Oschar A Chiesa², James O Peggins², Jurgen D VonBredow², Natalie D Eddington¹

¹ *Department of Pharmaceutical Sciences, University of Maryland, School of Pharmacy, Baltimore, MD21201,* ² *Center for Veterinary Medicine, Food and Drug Administration, Laurel, MD20059*

Assessment Of The NIR Technique For Process Analytical Testing Of Physicochemical Properties Of Sulfamethazine Boluses

Raafat Maher Fahmy¹, Aditya Tatavarti², Segmia K Tata², Dennis Bensley¹, William Marnane¹, Dilara Jappar², Peter Poczatek³, Gary Hollenbeck², Steve Hoag²
¹ Food and Drug Administration, ² University of Maryland School of Pharmacy, ³ Foss NIR System, Inc

Matrix-Mediated Controlled Delivery Of Adenovirus And Plasmid Dna From Silk-Elastinlike Hydrogels

Zak Megeed¹, Joseph Cappello², Hamid Ghandehari¹
¹ University of Maryland, ² Protein Polymer Technologies, Inc.

Thermal Characterization Of Genetically Engineered Silk-Elastinlike Protein Polymer Hydrogels

Zak Megeed¹, Joseph Cappello², Hamid Ghandehari¹
¹ University of Maryland, ² Protein Polymer Technologies, Inc.

Synthesis And Characterization Of A Novel ^{99m}Tc- Labeled N-(2-Hydroxypropyl)Methacrylamide Copolymer For Gamma Scintigraphy

Amitava Mitra¹, Anjan Nan¹, Justin Mulholland², Edwina McNeill², Hamid Ghandehari³, Bruce Line⁴
¹ Department of Pharmaceutical Sciences, Univ. of Maryland, ² Department of Radiology, University of Maryland, ³ Department of Pharmaceutical Sciences, Greenebaum Cancer Center, Univ. of Maryland, ⁴ Department of Radiology, Greenebaum Cancer Center, Univ. of Maryland

Altering The Surface Energy Of Albuterol Sulfate By Spray Coating

David Cline¹, Richard Dalby¹
¹ University of Maryland, Baltimore

Effect Of Viscosity And Actuation Force On Plume Geometry Of Nasal Formulations

Yang Guo¹, Richard Dalby¹, Julie Suman²
¹ Department of Pharmaceutical Sciences, University of Maryland, Baltimore, ² Next Breath, LLC, Baltimore, MD

Model For Surfactant-Mediated Enhancement Of Dissolution

James E Polli¹, Anand Balakrishnan¹
¹ University of Maryland, Baltimore

An Integrated Pharmacokinetic/Pharmacodynamic Model Of The In Vivo Interaction Of Δ^9 -Tetrahydrocannabinol (Thc) And Sr141716, A Cannabinoid Cb1 Receptor Antagonist

John Mondick¹, Natalie Eddington¹, David Gorelick², Stephen Heishman², Kenzie Preston², Richard Nelson², Eric Moolchan², John Newton³, Marilyn Huestis²

¹ *Department of Pharmaceutical Sciences, University of Maryland at Baltimore, Baltimore, MD,* ² *National Institute on Drug Abuse, National Institutes of Health, Baltimore, MD,* ³ *Sanofi-Synthelabo Inc., Malvern, PA*

Multiple Dose Pharmacokinetics Of Caffeine Administered In Chewing Gum To Normal Healthy Volunteers

Shariq A Syed¹, Gary H Kamimori², William Kelly², Natalie D Eddington¹

¹ *School of Pharmacy, University of Maryland at Baltimore, Baltimore, MD 21201, USA,* ² *Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500, USA*

On The Development Of A Discriminating Functionality Test For Super Disintegrants

Na Zhao¹, Larry L. Augsburger¹

¹ *University of Maryland - Baltimore*

Application Of A Prototype Automatic Disintegration Tester In Studying Super Disintegrant Efficiency In Wet Granulation

Na Zhao¹, Larry L. Augsburger¹

¹ *University of Maryland - Baltimore*

Single Dose Pharmacokinetics Of The Breast Cancer Resistance Protein (Bcrp) Inhibitor Fumitremorgin C (Ftc) In Female Scid Mice Bearing T8 Tumors

Tushar S Garimella¹, Julie L Eiseman², Douglas D Ross³, E Joseph², Takeo Nakanishi³, Kenneth S Bauer¹

¹ *University of Maryland School of Pharmacy,* ² *University of Pittsburgh Cancer Institute,* ³ *University of Maryland Greenebaum Cancer Center*

In Vitro Metabolism Of The Novel Antimicrotubule Agent Benzoylphenylurea (Bpu) Currently Under Phase I Investigation In Patients With Advanced Malignancy

Tushar S Garimella¹, Martin J Edelman², Jennifer J Horn¹, A Dimitrios Colevas³, Kenneth S Bauer Jr.¹

¹ *University of Maryland School of Pharmacy,* ² *University of Maryland Greenebaum Cancer Center,* ³ *Investigational Drug Branch NCI/CTEP*

Lipid Compositional Contributions To Passive Permeability Across Artificial Membranes

Paul Seo¹, James E Polli¹

¹ *University of Maryland, Baltimore*

Chemical Substituent Contributions To Passive Drug Permeability Across Parallel Artificial Membranes

Paul Seo¹, James E Polli¹

¹ *University of Maryland, Baltimore*

Structural And Functional Characterization Of The N-Terminal Domain Of The Apical Sodium -Dependent Bile Acid Transporter (Asbt)

Antara Banerjee¹, Mitch A Phelps¹, Peter W Swaan²

¹ *The Ohio State University*, ² *University of Maryland, Baltimore*