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Features



Articles in Press

Quantification of ENT1 and ENT2 Proteins at the Placental Barrier and Contribution of These Transporters to Ribavirin Uptake

Tomohiro Nishimura, Yuichiro Sano, Yu Takahashi, Saki Noguchi, Yasuo Uchida, Akinori Takagi, Takahiro Tanaka, Satomi Katakura, Emi Nakashima, Masanori Tachikawa, Tetsuo Maruyama, Tetsuya Terasaki, Masatoshi Tomi

The aims of this study are to quantify the protein levels of nucleoside transporters in placental microvillous membranes (MVMs) and to clarify the contributions of these transporters to ribavirin uptake at the placental barrier. Placental MVMs of human and rat expressed equilibrative nucleoside transporter (ENT) 1 protein, whereas the expression of ENT2 protein was obscure. Maternal-to-fetal transfer of [3H]ribavirin in rats was much higher than that of [14C]sucrose. The uptake of [3H]ribavirin by rat placental trophoblast TR-TBT 18 d-1 cells, which functionally express both ENT1 and ENT2 proteins, was saturable,

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Polymeric nanocarriers with mucus-diffusive and mucus-adhesive properties to control pharmacokinetic behavior of orally-dosed cyclosporine A

Hideyuki Sato, Yuuki Kaneko, Kohei Yamada, Kurt D. Ristroph, Hoang D. Lu, Yoshiki Seto, Hak-Kim Chan, Robert K. Prud'homme, Satomi Onoue Publication stage: In Press Journal Pre-Proof

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PDF

The preparation of curcumin sustained-release solid dispersion by hot melt extrusion------II. Optimization of preparation process and evaluation in vitro and in vivo

Wenling Fan, Xinyi Zhang, Wenjing Zhu, Liuqing Di Publication stage: In Press Journal Pre-Proof Journal of Pharmaceutical Sciences Published online: November 30, 2019

Stability of Ceftazidime Pentahydrate investigated by Thermal Analysis Techniques

Maria Silmara Alves de Santana, Yara Santiago de Oliveira, Jéssica de Castro Fonseca, Wellington Castro Ferreira, Vasco Stascxak Neto, Alejandro Pedro Ayala

Publication stage: In Press Journal Pre-Proof Journal of Pharmaceutical Sciences Published online: November 27, 2019

PDF

Prediction of pH-Dependent Drug-Drug Interactions for Basic Drugs using Physiologically based Biopharmaceutics Modeling: Industry Case Studies

Amitava Mitra, Neil Parrott, Neil Miller, Richard Lloyd, Christophe Tistaert, Tycho Heimbach, Yan Ji, Filippos Kesisoglou

Publication stage: In Press Journal Pre-Proof Journal of Pharmaceutical Sciences Published online: November 25, 2019

Absorptive dissolution testing: An improved approach to study the impact of residual crystallinity on the performance of amorphous formulations

Siddhi S. Hate, Susan M. Reutzel-Edens, Lynne S. Taylor Publication stage: In Press Journal Pre-Proof

Journal of Pharmaceutical Sciences Published online: November 22, 2019 PDF

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News

2019 Ebert Prize Awarded by the APhA Academy of Pharmaceutical Research and Science (APRS)

JPharmSci®'s Editorial Team is pleased to announce that Christopher P Calderon, Austin I. Daniels and Theodore W. Randolph were selected to receive the 2019 Ebert Prize for their paper entitled "Deep Convolutional Neural Network Analysis of Flow Imaging Microscopy Data to Classify Subvisible Particles in Protein Formulations" (J. Pharm. Sci., 107 (4), 999-1008, 2018). Dr. Calderon accepted the Ebert Prize silver medallion on behalf of his coauthors from the 2018-2019 APhA President Nicki Hilliada at the 2019 APhA Annual Meeting in Seattle, Washington.

A full, freely available Editorial containing more information about the 2019 Ebert Prize Paper is available here.

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John F. Carpenter and Theodore W. Randolph **Dedicated Issue**

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