

**a mathematical model of intervillous blood flow in the ...** - a mathematical model of intervillous blood flow in the human placenta Igor I. Chernyavskaya, Oliver E. Jensen, Lopa Leachb, Centre for Mathematical Medicine and Biology, School of Mathematical Sciences, University of **three-dimensional modeling of human placental terminal villi** - 36 model is by simplifying the geometry to known geometrical shapes - e. g. tubes and ovals. 37 these type of studies form the second and smallest group of placental modeling [20{22]. 38 thus, most of the studies performed on the oxygen transport in the human placenta have **placenta extraction model - university of wisconsin-madison** - placenta extraction model abstract the placenta is an organ used to transfer nutrients between mother and fetus during pregnancy. once the baby is delivered, the placenta is no longer needed. **the effect of placenta location on the safety of pregnant ...** - side views for (a) anterior, (b) posterior and (c) lateral right placenta within the uterus of the **expecting™** model (lateral left - not shown - is the symmetric version of lateral right). 2.3. **biomimetic placenta-fetus model demonstrating maternal fetal transmission and fetal neural toxicity of zika virus** navein arumugasaamy, 1,2,3 leila e. ettehadieh,1,2,3 che-ying kuo,1,2,3 dominic paquin-proulx,4 **modeling the transfer of sildenafil across the placenta ...** - modeling the transfer of sildenafil across the placenta with data of an ex-vivo human cotyledon perfusion experiment **sildenafil (sil) is a selective phosphodiesterase 5 (pde5) in vitro models using the human placenta to study fetal ...** - efficient in vitro model to study placenta transport. this preparation is useful for studying the effects of drugs or chemicals on transport mechanisms across the plasma membrane. the membrane vesicles are prepared from the surface microvilli of the human term placenta that are exfoliated from the syncytiotrophoblast cells and are further purified by differential centrifugation and washing ... **placental drug transport on a microengineered in vitro chip: a microengineered in vitro** logical model of the placenta for simulation and quantitative analysis of placental drug transport. this study builds upon the **placenta-on-a-chip** system that we have developed previously to mimic the salient structure and function of the human placental barrier (figure 1a-c). ... **1 flow and transport in the placenta - maths-in-medicine** - mmsg2001 3 tree p q r q h d pool free fluid figure 1: schematic of model problem. 1.3.1 governing equations we consider an axisymmetric cotyledon (figure 1), containing one villous tree which **an embryonic model for trophoblast invasion - ucl** - an embryonic model for trophoblast invasion james muir april 12, 2007 supervised by prof. david bogle, dr shanthi muttukrishna and richard allen **prediction of human fetal pharmacokinetics using ex vivo ...** - placenta perfusion model were implemented in pregnancy physiologically based pk (p-pbpc) models in order to predict fetal pk. physiologically based pk (pbpc) models are based to a large extent on the actual physiology of the organism, whereas conventional pk models use virtual compartments. pbpc models incorporate both physiological parameters that are important for absorption, distribution ...

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