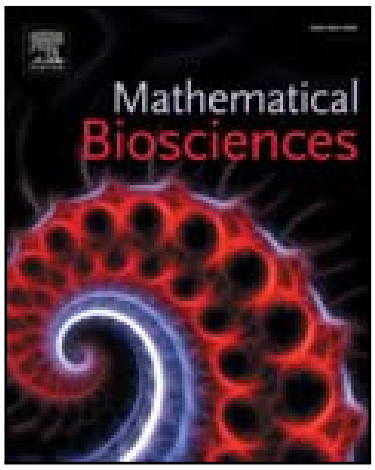
Accepted Manuscript



A Geometrical Model for Diffusion of Hydrophilic Compounds in Human Stratum Corneum

Fang Yu , Gerald B. Kasting

PII: S0025-5564(17)30503-5
DOI: 10.1016/j.mbs.2018.03.010
Reference: MBS 8041

To appear in: *Mathematical Biosciences*

Received date: 22 September 2017
Revised date: 10 January 2018
Accepted date: 7 March 2018

Please cite this article as: Fang Yu , Gerald B. Kasting , A Geometrical Model for Diffusion of Hydrophilic Compounds in Human Stratum Corneum, *Mathematical Biosciences* (2018), doi: 10.1016/j.mbs.2018.03.010

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- Solute clearance from the skin's barrier layer is evaluated in a novel manner.
- The role of skin appendages (sweat ducts and hair follicles) is considered.
- A three-dimensional analysis supports a primarily transcellular process.
- Appendageal transport cannot be discounted for transport across the tissue.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/8877013

Download Persian Version:

https://daneshyari.com/article/8877013

Daneshyari.com