

# AAPS ELECTRONIC SCIENTIST

Covering Pharmaceutical  
Science and Research  
on the Internet

April 2000

AAPS  
**PharmSci**

## Your Research Resource

Despite being a little over one year-old, *AAPS PharmSci* ([www.pharmsci.org](http://www.pharmsci.org)) now boasts a rapidly increasing stock of original research articles. The leading electronic-only journal of the pharmaceutical sciences has published the works of pre-eminent pharmaceutical scientists on topics of current relevance. Researchers worldwide have been utilizing the peer-reviewed publication as a source for the latest publications in their field. A few examples of the fast-paced and highly resourceful world of electronic-publishing follow:

### Comparative Studies To Determine Selective Inhibitor for P-glycoprotein and Cytochrome P450 3A4

Meguru Achira, Hiroshi Suzuki, Kiyomi Ito, Yuichi Sugiyama

### Determination of Membrane Protein Glycation in Diabetic Tissue

Eric Zhang, Peter Swaan

- ✓ In December 1999, the above two original research articles focusing on Membrane Proteins were published back to back, one week apart.

### Prediction of Dissolution-Absorption Relationships from a Continuous Dissolution/Caco-2 System

Mark Ginski, Rajneesh Taneja, James Polli

### Function and Immunolocalization of Overexpressed Human Intestinal H+/Peptide Cotransporter in Adenovirus-Transduced Caco-2 Cells

Cheng-Pang Hsu, Elke Walter, Hans Merkle, Barbara Rothen-Rutishauser, Heidi Wunderli-Allenspach, John Hilfinger, Gordon Amidon

- ✓ Utilizing *AAPS PharmSci*'s powerful search engine, one will find the above two articles on caco cells.

### Kinetic Modeling of Plasmid DNA Degradation in Rat Plasma

Brett Houk, Gunther Hochhaus, Jeffrey Hughes

### A Method To Monitor DNA Transfer During Transfection

Andrew Johnson, Joseph Jurcisek, O. Trask, Jessie Au

- ✓ These articles on prominent articles utilizing DNA can be found in Volume 1 Issue 4 and 3, respectively.

## Implementing the Vision

"Our launch coincides with an exciting time when diverse disciplines intersect and the pharmaceutical sciences reemerge into prominence. Multidisciplinary and integrative approaches are hallmarks of the pharmaceutical scientist. In parallel with these trends, drug discovery, development, and therapy undergo profound changes move to the forefront of cutting edge research." —Dr. Wolfgang Sadée, Editor-in-Chief, *AAPS PharmSci*

**AAPS PharmSci****Call For Papers Update****Pharmacogenetics-  
Pharmacogenomics**

**Editors:** Wolfgang Sadée, Ph.D. (UCSF)  
Gordon L. Amidon, Ph.D. (University of Michigan)

AAPS invites authors to submit papers to a Theme Issue of its new electronic journal, **AAPS PharmSci**, on the general topic of Pharmacogenetics - Pharmacogenomics.. Manuscripts are invited from the broad range of topics including:

- 1) Genetic basis of variability in drug response;
- 2) Polymorphisms of receptors, enzymes, and transporters;
- 3) Phenotyping tissues for drug effects;
- 4) Detection of polymorphisms;
- 5) Genome-wide mapping of single nucleotide polymorphisms in drug trials;
- 6) Genes conferring disease susceptibility and/or sensitivity to drug therapy;
- 7) DNA microarray technology;
- 8) Genomics, proteomics, cellomics;
- 9) Cloning genes relevant to drug effects;
- 10) Clinical drug studies involving pharmacogenetics - pharmacogenomics;
- 11) Pharmacokinetics/Pharmacodynamics and genetic variations;
- 12) Pharmacogenomics in drug discovery and development;
- 13) Genomics of microorganisms and viruses related to drug treatment;
- 14) Incidence of adverse drug effects in relation to genetic variations;
- 15) Pharmacoepidemiology;
- 16) Pharmacoconomics.

Theme Issues will be separately advertised to target audiences, to enhance the impact of papers submitted under a common umbrella.

Manuscripts will undergo an expedited review by two experts to determine suitability for publication. Manuscripts will be published immediately following acceptance in this theme issue volume of **AAPS PharmSci**; the paper will also appear in the regular monthly issue of **AAPS PharmSci** as an alternative entry point for our readers. We will accept submissions for this special issue from September 15, 1999 through March 15, 2000.

**AAPS PharmSci** is a new electronic journal published by the American Association of Pharmaceutical Scientists (AAPS) with the goal of publishing manuscripts of broad interest to pharmaceutical scientists. **AAPS PharmSci** is owned by AAPS, and authors retain the rights to royalty-free, personal use of the information published in **AAPS PharmSci**. **AAPS PharmSci** is designed to take advantage of the rapid advances that are occurring in electronic publishing, including color and 3-D figures, interactive figures and tables, as well as audio and video features.

If you have special considerations for your manuscript or wish to suggest a topic for a mini-review; email the Editor-in-Chief, Dr. Wolfgang Sadée at [wsadee@itsa.ucsf.edu](mailto:wsadee@itsa.ucsf.edu).

**Epithelial Cell Permeability  
and Drug Absorption**

**Editor:** Gordon L. Amidon, Ph.D.  
(University of Michigan)

AAPS invites authors to submit papers to a Theme Issue of its new electronic journal, **AAPS PharmSci**, on the general topic of epithelial cell permeability and drug absorption. Manuscripts are invited from the broad range of topics including:

- 1) molecular membrane transporters e.g. P-gp, hPepT1, etc.
- 2) membrane structure and biophysics
- 3) permeability determination including HTS
- 4) epithelial cell permeability in mucosal tissues
- 5) epithelial cell permeability in pharmacokinetics
- 6) individual variability in drug penetration of epithelial membranes
- 7) prediction of permeability and drug absorption
- 8) drug regulatory standards based on permeability including BA and BE standards

**Submit your manuscript via an email attachment or diskette to:  
AAPS PharmSci Editorial Office  
1650 King St. Suite 200  
Alexandria, VA, 22314  
[pharmsci-edoffice@aaps.org](mailto:pharmsci-edoffice@aaps.org)**