Transforming *scientific data* into *clinical knowledge*

**University of Washington**

Pharmacokinetic-based Drug Interaction Knowledgebase

-> Marketing update

June 20, 2019
Pillars of the knowledgebase

**Metabolism and Transport Drug Interaction Database: DIDB®**

**Drug-Drug Interactions (DDIs)**
- *In vitro* and *in vivo* DDI studies in **humans** including herbals and food products
- Other mechanisms of DDIs, including clinical absorption-based interactions (pH-dependent, **food effect**...) **NEW**
- Clinical **organ impairment** studies

**Pharmacogenetics Database: e-PKGene®**

**Gene-Drug interactions (GDIs)**
- Impact of genetic variants of enzymes and transporters on the pharmacokinetic responses to drugs and metabolites
FROM A CITATION OR NDA/BLA REVIEW
The latest, most relevant, peer-reviewed publications and regulatory documents are identified and fully analyzed. Study protocol and results are manually curated on a daily basis.

TO A FULLY CURATED DATASET
Prior to integration, all data are carefully and critically evaluated. The rich dataset, including relevant insights, is exploited, generating a highly detailed dataset for immediate use and can be filtered and re-arranged to allow meta-analysis of multiple results.

POWERFUL TOOL FOR DATA INTEGRATION:
FROM ONE CITATION TO METADATA ANALYSIS

Query all OATP1B1 inhibitors with IC50 ≤ 10 μM

Table View of Query Results

- Obtain a complete list of in vitro inhibitors of OATP1B1

Multiple formats for viewing and downloading

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By the Numbers

Program established 20 years ago

Citation coverage 1963 to present

Over 50 queries / 450 possible searches
13,000 total compounds
700 DDI summaries

Drug-Drug Interactions: DIDB®
data from
16,500 citations / 115,000 entries
350 NDAs-BLAs / 9,000 entries

Gene-Drug Interactions: e-PKGene®
data from
2,500 citations / 7,300 entries
50 NDAs-BLAs / 120 entries

As of April 2019
Benefits of using DIDB® and e-PKGene®

✓ provide context for the interpretation of results obtained for candidate compounds
✓ optimize and validate static predictions and PBPK models
✓ assist with preclinical study design and design of clinical trials
✓ help the users gain insight on DDI risk and possible clinical outcomes
✓ support drug labeling recommendations and the safe use of medications in various patient populations
✓ Currently used by 110+ organizations worldwide
New Branding

UW Drug Interaction Solutions
Transforming scientific data into clinical knowledge

Development of Drug Interaction Knowledgebase Content

User Support & Training
Research & Publications
Teaching

Standard:
DIDB® + e-PKGene®

Customized:
ClinPK Solutions

* Preclinical Drug Transporter Dataset
* Preclinical Drug Metabolism Dataset
* Clinical Drug Interaction Dataset
* Clinical Organ Impairment Dataset
* Clinical Pharmacogenetic Dataset

Customized Clinical PK Datasets
For technical updates and upcoming new features come and discuss with us at our new booth!
Contact Us

Content & Technical Support
Department of Pharmaceutics
School of Pharmacy
University of Washington

Dr Isabelle Ragueneau-Majlessi
☎ +1 (206) 543-4669
Dr Jingjing Yu
☎ +1 (206) 221-2856
☞ didbase@uw.edu

Licensing
CoMotion
University of Washington

Roï Eisenkot
☎ +1 (206) 897-1982
☞ license@uw.edu

druginteractioninfo.org (updated website to come)

NEW

UW Drug Interaction Solutions