The New Thomson Reuters Cortellis Collection for Accelrys

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“To enable better decision making for our customers by making Thomson Reuters knowledge available at the point of need.”

Our content should be seamlessly integrated into our clients work flow at the point where it adds most value. Relevant knowledge should be presented at the pertinent time clearing the way for our clients to make more informed decisions.
CORTELLIS FOR INFORMATICS PIPELINE
PILOT COMPONENTS

TIM MILLER
VICE PRESIDENT PRODUCT MANAGEMENT
## HUMAN-CURATED QUALITY CONTENT BEHIND THE CORTELLIS APIS

<table>
<thead>
<tr>
<th>Reliable</th>
<th>Our target content is trusted by the majority of the top twenty pharmaceutical companies globally and hundreds of other firms in the drug discovery arena</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>We use six-sigma methodology to measure and track the quality of the content processed by our editorial teams</td>
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<tr>
<td>Precise</td>
<td>Our experts understand drug discovery - our editors have a scientific background in subjects including chemistry, biochemistry, biotechnology, biology, pharmacology, and medicine many to PhD level</td>
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<tr>
<td>Clear</td>
<td>Content is derived from a wide variety of sources and is carefully selected, reviewed, and indexed to ensure optimal search results with unmatched depth and breadth</td>
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<td>Our standardized taxonomies deliver information so it is useful and consistent</td>
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CONTENT OF THE TARGETS API

• Editorial team for Integrity curate information from patents, journals, meetings, trial registries, web sites, regulatory bodies, public databanks – focus on drug design

• Content added to Targets Knowledge Area when evidence of active research into an entity as a drug target

• Currently 2,093 targets in Integrity

• Editorial team for MetaCore curate information from the same sources – focus on pathways and interactions

• API is based on Integrity target data “decorated” with additional information from MetaCore
CORE FIELDS IN THE TARGETS API

• Name, type, classification, synonyms, description, related mechanism

• Links (pdb, swissprot, hugo, affymetrix, agilent, unigene, ensembl, snp, pir, embl, omim, kegg)

• Localisations

• Organs & Tissues

• Interactions & Pathway map names
DRUG FIELDS IN THE TARGETS API

- Status by Condition (exploratory, candidate, validated)
- Drugs by Condition (Mechanism, Name, IUPAC Name, Trials)
- Chemical Structures (SMILES, InChI)
REFERENCES IN THE TARGETS API

- Patents (title, applicant, inventors, numbers)
- [Journal, Book, Meeting] References (title, author, biblio)
- Trials (Title, Condition, Conclusions)
CONTROLLED VOCABULARY INDEXING IN THE TARGETS API

• Conditions
• Target Classifications
• Mechanisms*
• Localisations
• Organs & Tissues
CONSUMING THE TARGETS API WITH PIPELINE PILOT

• Using an API is technically challenging – by wrapping the API in Pipeline Pilot components, users will be able to program via drag and drop.

• This allows:
  – Rapid prototyping of new API applications
  – Easy mash-ups with other data
  – New analyses of the data