Questel

Software

Orbit chemistry

Orbit Chemistry - Indexation

- Molecules readily extracted every time a patent enters our database → No delay

- Orbit Chemistry **indexes** :
  - Common names (e.g. Toluene, Aspirin)
  - Drug names (e.g. Paracetamol, Doliprane)
  - Acronyms (e.g. ATP for "Adenosine Triphosphate")
  - IUPAC names
  - CAS numbers
  - Molecules drawings (images for US, WO, EP and JP after 2007 and MOL files for US, also starting from 2007)
- Orbit Chemistry allows to **search***:
  - SMILES

*not indexed but translated to IUPAC name by the system.

Orbit chemistry – Geographic coverage

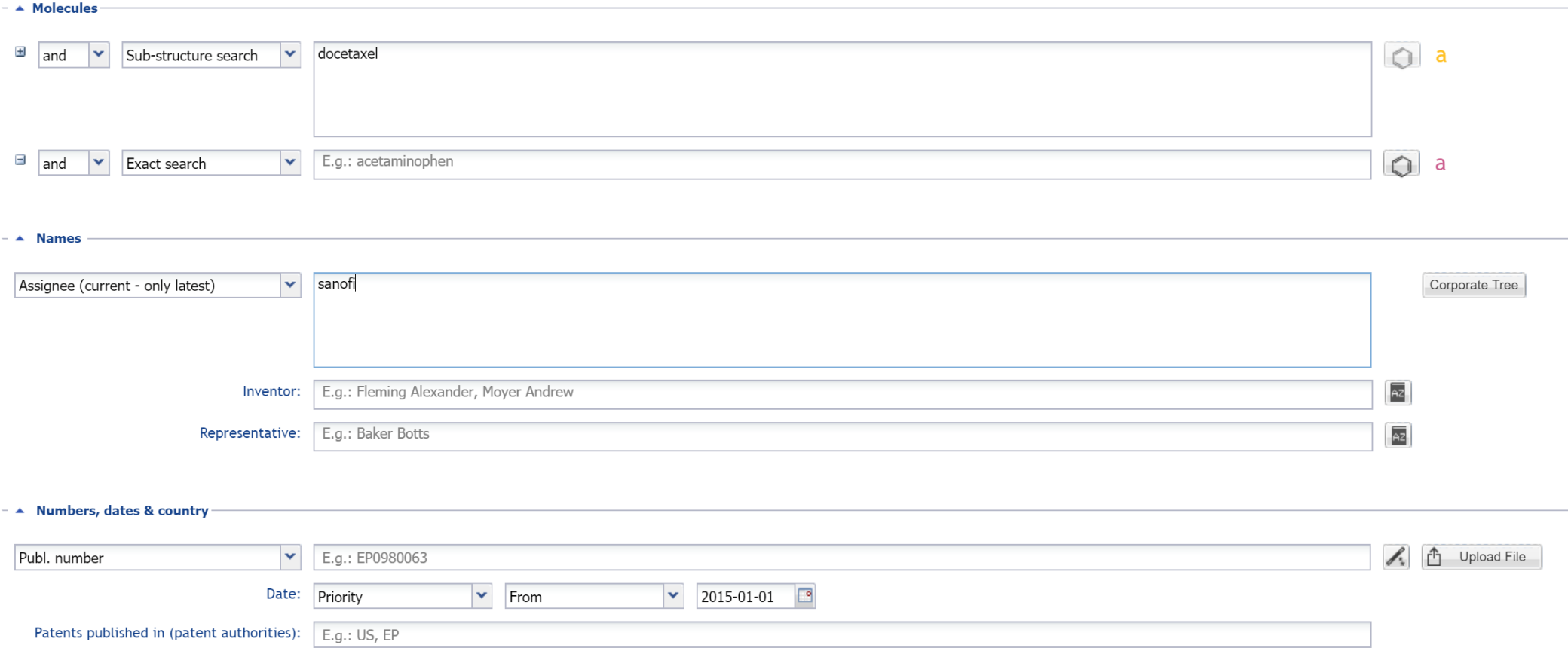
Geographic coverage*

Extraction from full texts in English (description and examples included):
US, EP, CA, GB, IL, WO, AU, IN
And from machine translation:
CN, DE, FR, JP, KR
*Same coverage as concepts' extraction

Chemistry module

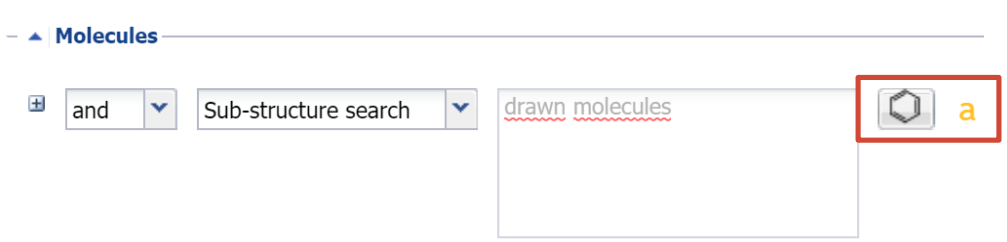
Fully integrated to advanced search

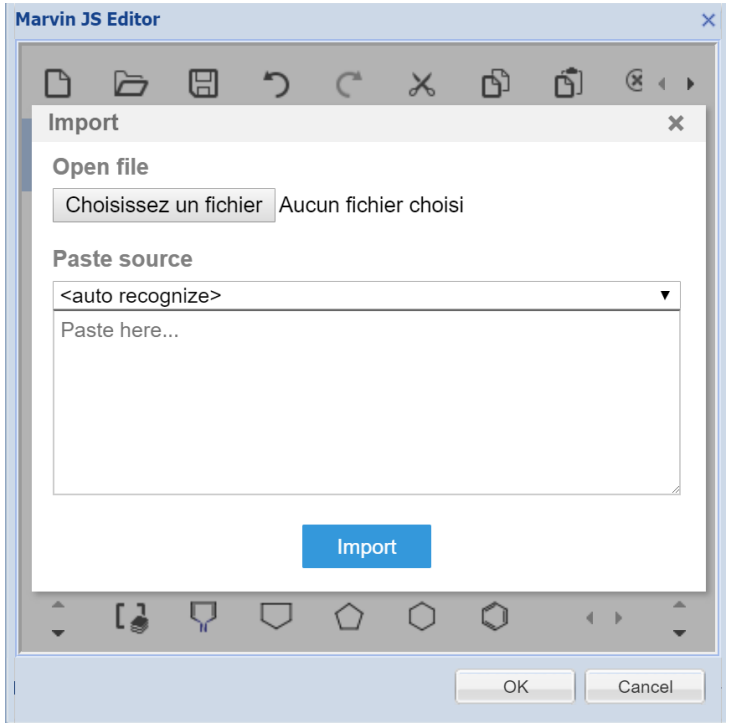
Easy combination with applicants' names, legal states and keywords…

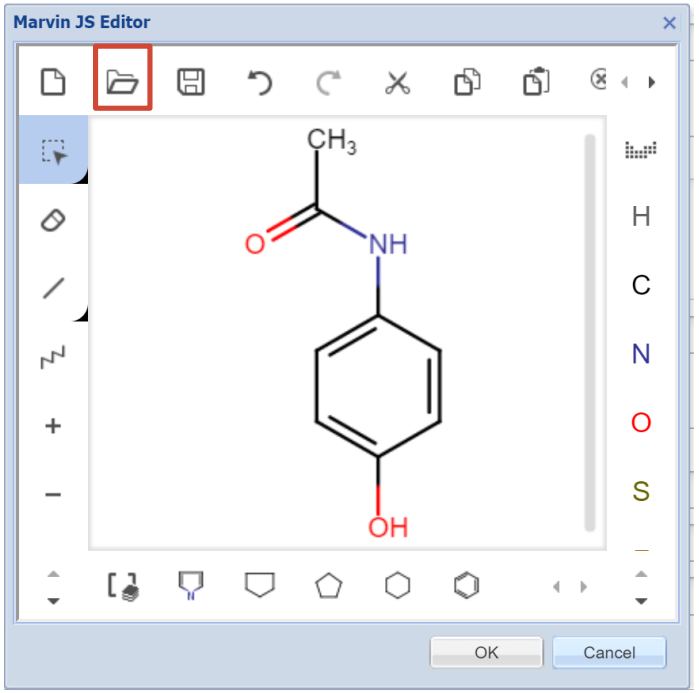


Chemistry module

Draw or import easily molecules you receive from your researchers







Useful link to download mol files:
http://www.ebi.ac.uk/chebi/
https://www.drugbank.ca/

Chemistry module

Easy combination of your search steps

Exact search

Erase all | Save entire strategy | Create a script | Export

Menu | Explorer

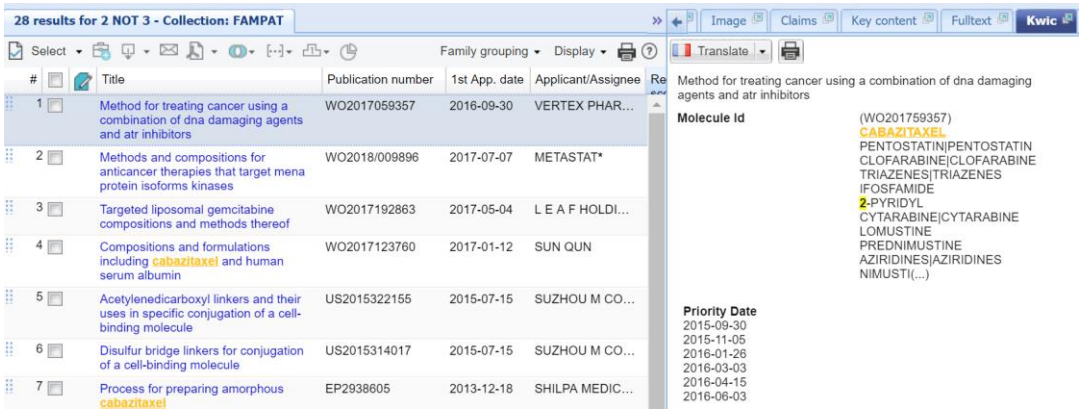
Patent family searches (FamPat)

- Searches
  - Easy search
  - Advanced search
  - Semantic search
  - Assignee search
  - Number search
- My session
  - Search history
  - Search results
  - Console
- Past sessions
  - Previous history

Search Step	Result(s)	Query	Assistant	Source	Action
5	28	2 NOT 3	Search history	FAMPAT	Show resu
4	43	**<Molecule search>** AND ((PFIZER)/PA/OPA) AND PRD >= 2015	Advanced search	FAMPAT	Show resu
3	5738	**<Molecule search>** AND PRD >= 2015	Advanced search	FAMPAT	Show resu
2	5766	**<Molecule search>** AND PRD >= 2015	Advanced search	FAMPAT	Show resu
1	21827	**<Molecule search>**	Advanced search	FAMPAT	Show resu

Combine strategies, E.g.: (1 or 2) not 3, 1 and (phone+)

Sub-structure search

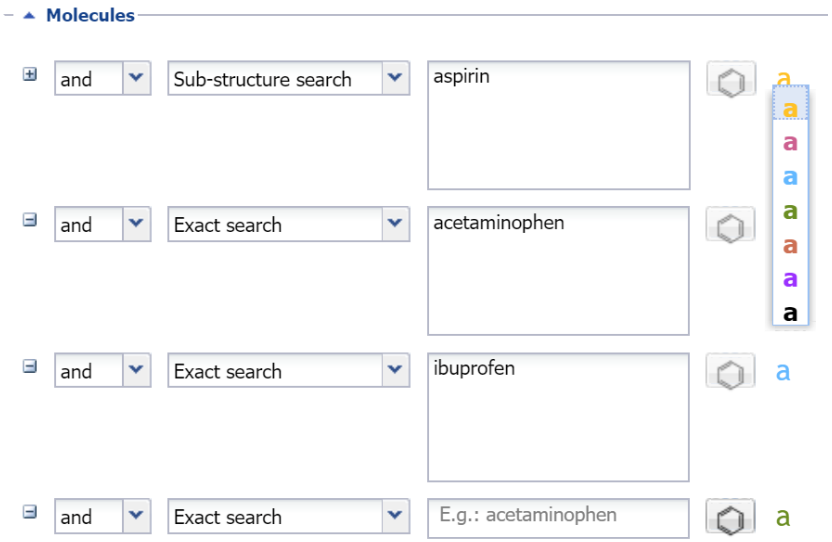


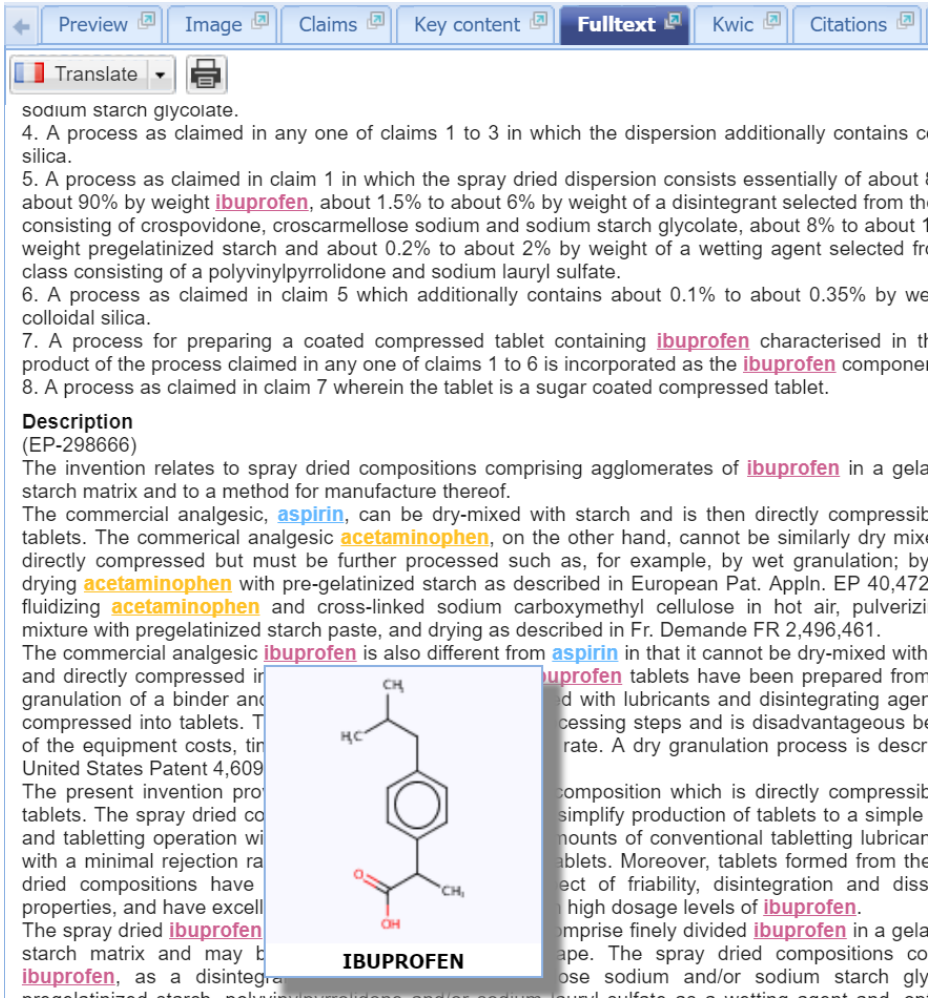
Cabazitaxel is investigated recently

Chemistry module

Molecules combination possible

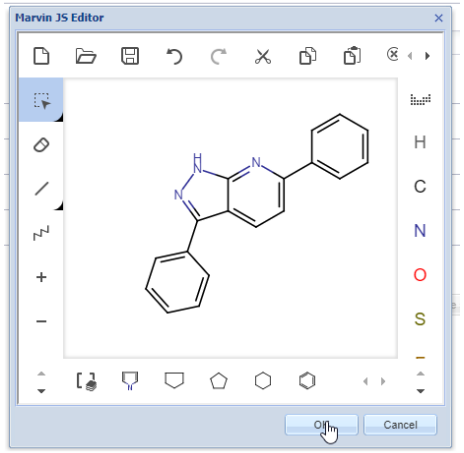
Easy review thanks to highlighting feature

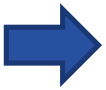




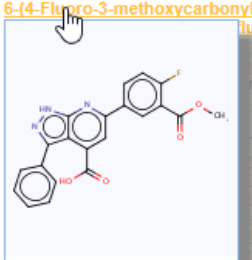
Chemistry module

Rapidly identify similar structure thanks to substructure search and advanced highlighting feature

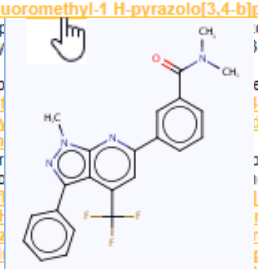




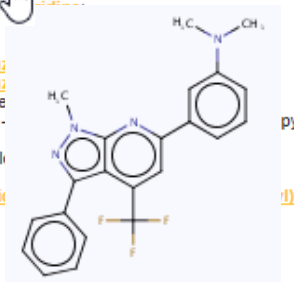
3-(4-Fluorobenzyl)-1 -methyl-6-[1 -(2-methyl-2H-pyrazol-3-yl)-imidazo[1 ,5-a]pyridine-3- carbonyl]-1 H-quinazoline-2,4-dione;
3-(4-Fluorobenzyl)-1 -methyl-6-[1 -(1 -methyl-1 H-pyrazol-4-yl)-imidazo[1 ,5-a]pyridine-3- carbonyl]-1 H-quinazoline-2,4-dione;
3-(4-Fluorobenzyl)-1 -methyl-6-[1 -(1 -methyl-1 H-pyrazol-4-yl)-imidazo[1 ,5-a]pyridine-3- carbonyl]-1 H-quinazoline-2,4-dione;
3-(4-Fluorobenzyl)-6-[1 -(1 -methyl-1 H-pyrazol-4-yl)-imidazo[1 ,5-a]pyridine-3-carbonyl]-1 - propyl-1 H-quinazoline-2,4-dione;
[6-(1 -Bromo-2-methylindolizine-3-carbonyl)-2,4-dioxo-1 ,4-dihydro-2H-quinazolin-3- yl]acetic acid methyl ester;
[6-(1 -Bromo-2-methylindolizine-3-carbonyl)-2,4-dioxo-1 ,4-dihydro-2H-quinazolin-3- yl]acetic acid tert-butyl ester;
6-(4-Fluoro-3-methoxycarbonylphenyl)-3-phenyl-1 H-pyrazolo[3,4-b]pyridine-4-carboxylic acid;



6-(4-FLUORO-3-METHOXYCARBONYLPHENYL)-3-PHENYL-1 H-PYRAZOLO[3,4-B]PYRIDINE-4-CARBOXYLIC ACID



N,N-DIMETHYL-3-(1 -METHYL-3-PHENYL-4-TRIFLUOROMETHYL-1 H-PYRAZOLO[3,4-B]PYRIDIN-6-YL)BENZAMIDE



DIMETHYL[3-(1 -METHYL-3-PHENYL-4-TRIFLUOROMETHYL-1 H-PYRAZOLO[3,4-B]PYRIDIN-6-YL)PHENYL]AMINE

in the form of the base or of an acid-addition
3. Compounds of formula (I) according to Claim 1 , characterized in that R2represents a group:
o -CHF2, except when R4located on the nitrogen alpha to R3represents a methyl group and R3represents a hydrogen atom, o -COOH,
or
o -CONHR5, in which R5represents a hydrogen atom or a linear group (CrC3)alkyl, optionally substituted with a pyridyl group or an aromatic group
chosen from aryl and pyridyl, in the form of the base or of an acid-addition or base-addition salt.

Chemistry module
Value added

- Fast indexation of patents
- Easy combination of molecule search with Orbit high quality database (keyword or even sequence search)
- Easy review of patents

Orbit IPBI solutions
foster IP stakeholders
in all their IP activities.

Thank you!!!

Questel