



20<sup>th</sup>

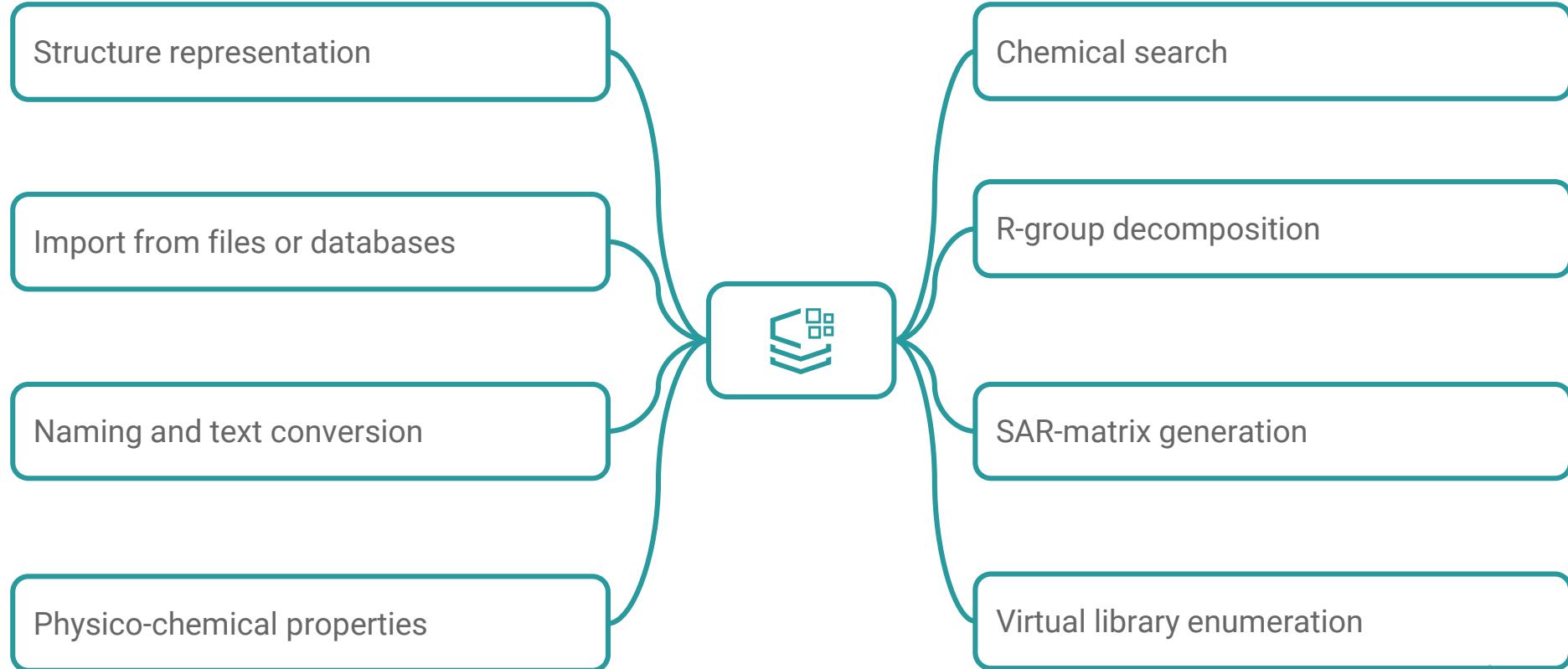
anniversary

**Serving drug discovery with  
cutting-edge software**

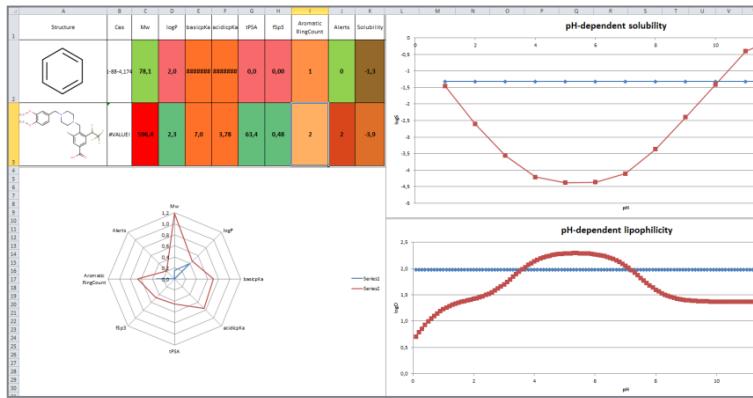
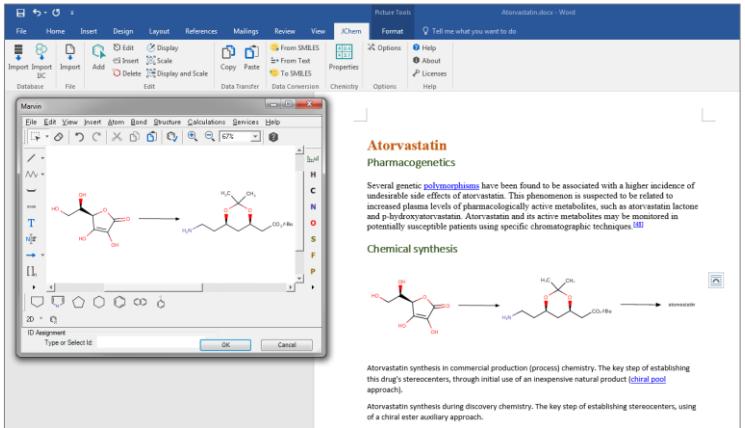


Dóra Barna, PhD  
Application Scientist

## Live Chemistry in Microsoft Office

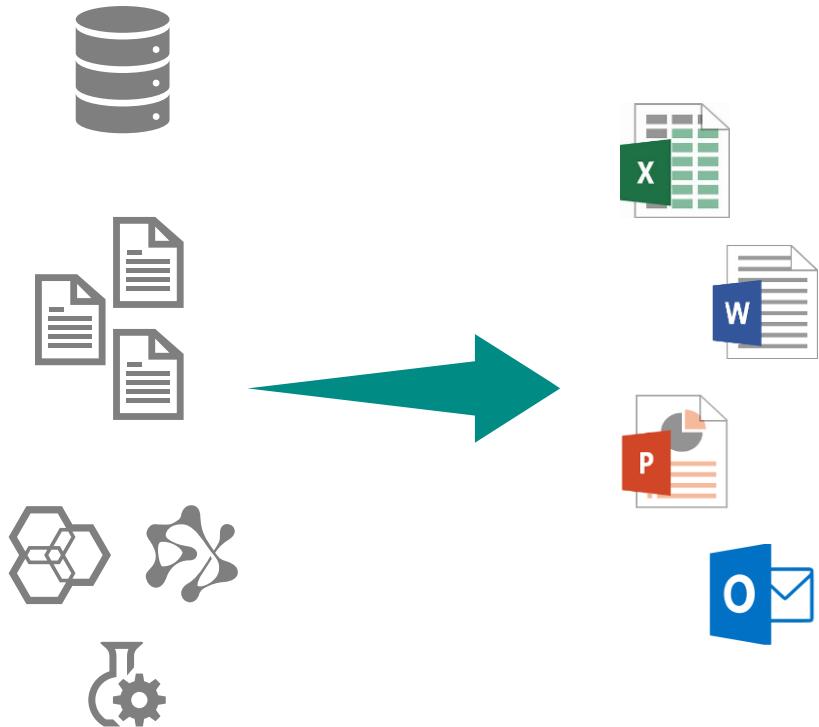


# JChem for Office



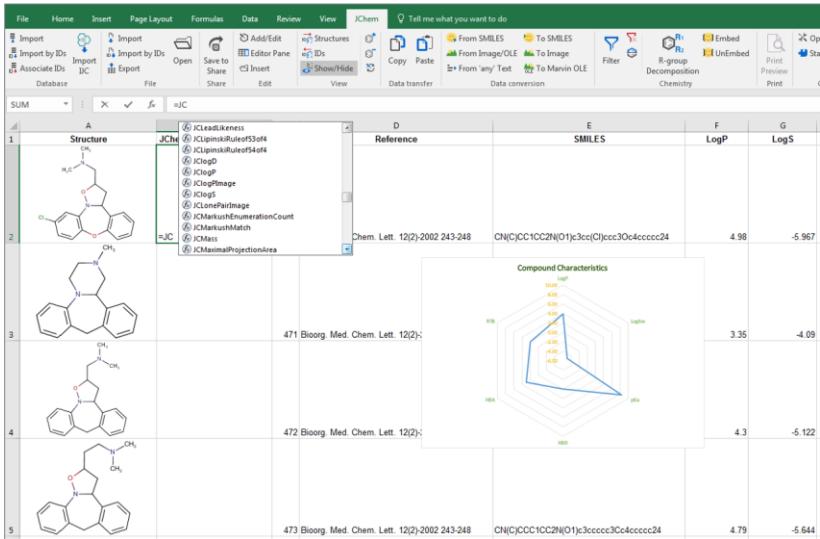
- Live molecules
- Import from several sources
- Chemical intelligence
- Pre-defined display settings for easy reporting
- Well-known environment

# Import



- Chemical file
- Relational database
- JChem Web Services
- Instant JChem, Plexus Suite
- N2S and S2N conversion
- Extracts structures from documents

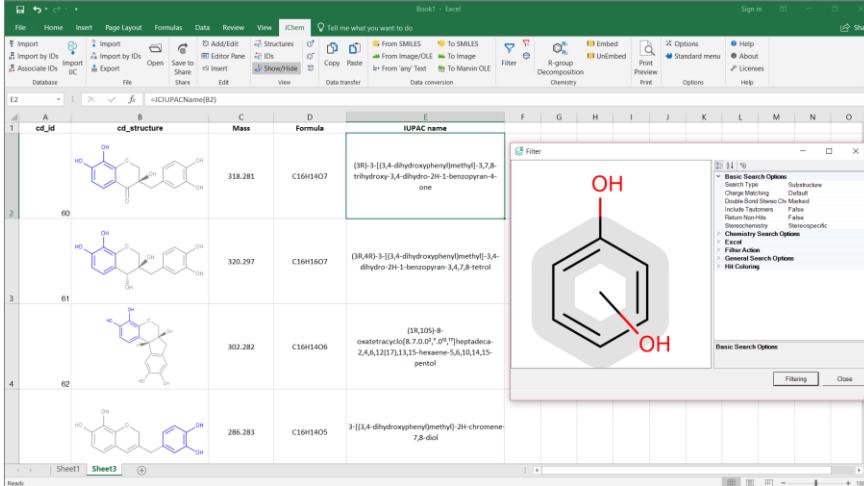
# Property calculations



- Elemental analysis
- Protonation, partitioning
- H-bond donor/acceptor
- Isomers, tautomers
- Topology, geometry
- Drug-likeness filters
- Charge

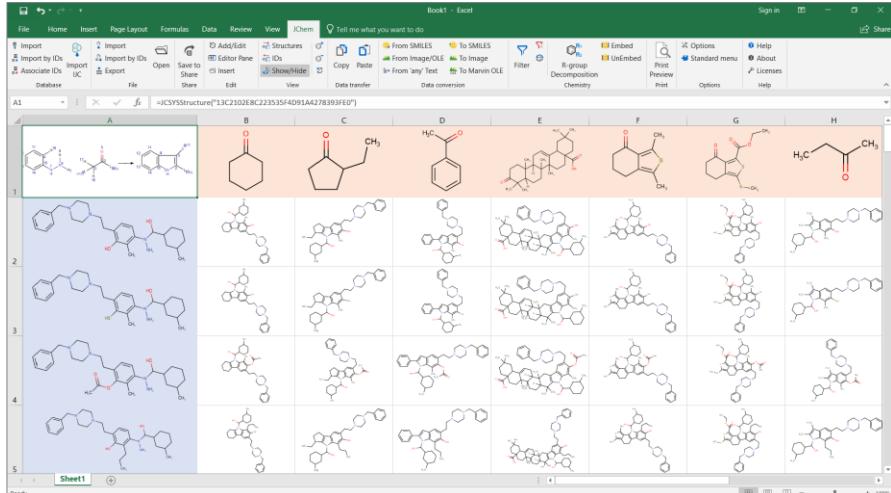
# Chemical search

- Substructure
- Full structure
- Duplicate
- Superstructure
- Similarity
- Search options
- Hit alignment



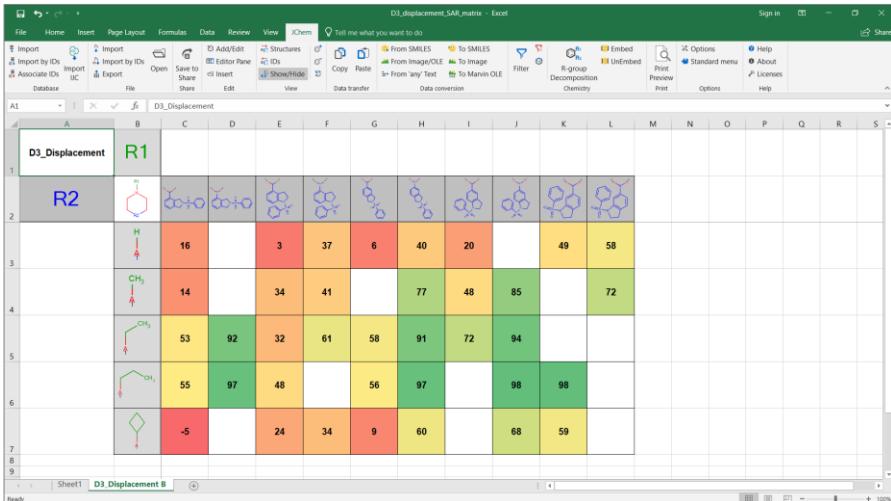
# Virtual library generation

- Reaction-based library enumeration
- Reactivity and selectivity prediction via empirical smart rules



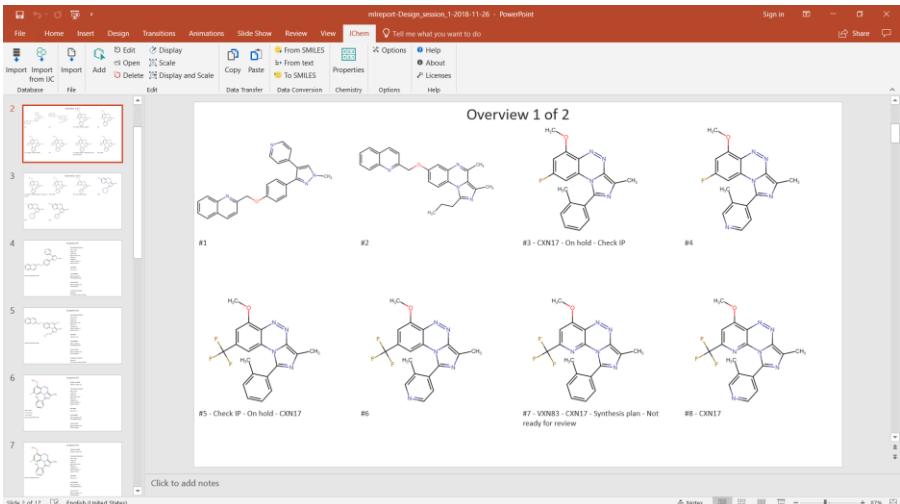
# SAR-analysis

- Decompose your molecules
- SAR-matrix
- Heat map
- Report in PowerPoint



# Reporting

- Pre-defined display options
- Unified structure layout
- Reports with „live” molecules
- Shareable files



# Live demo







# THANK YOU

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