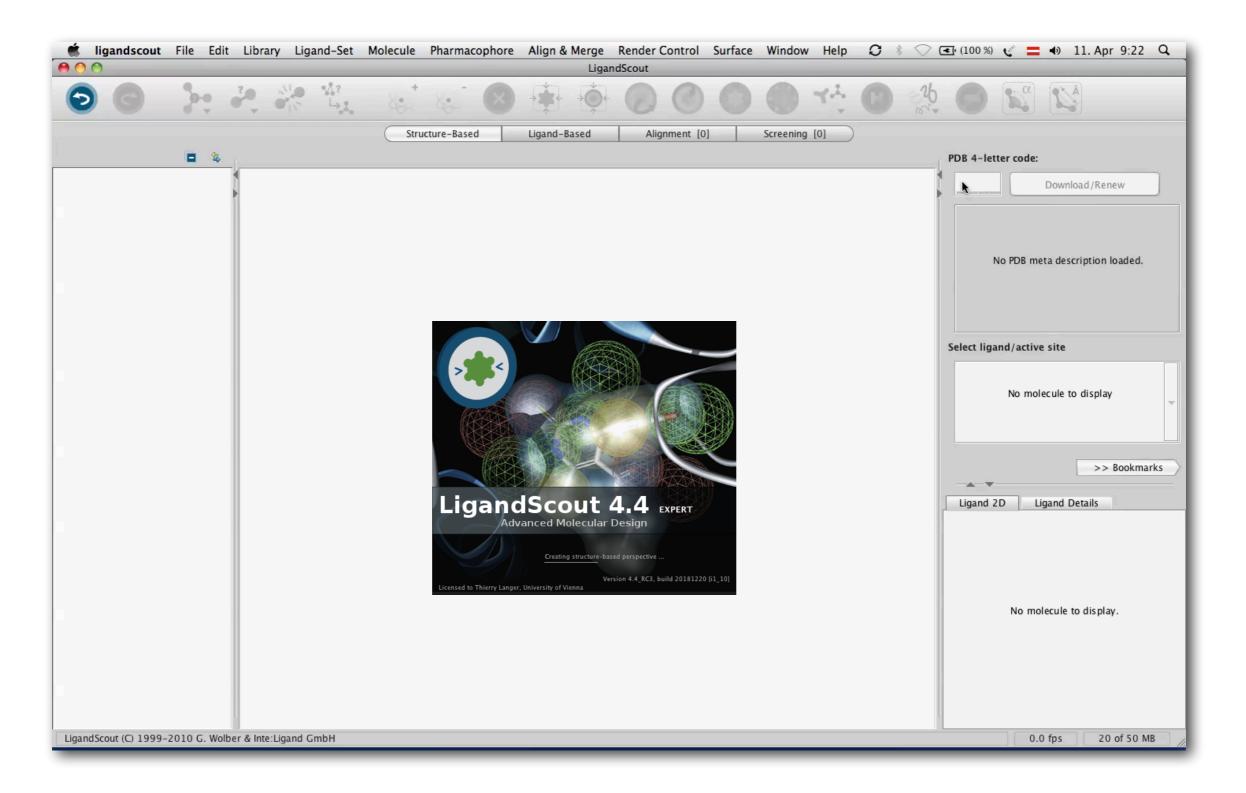
News about LigandScout

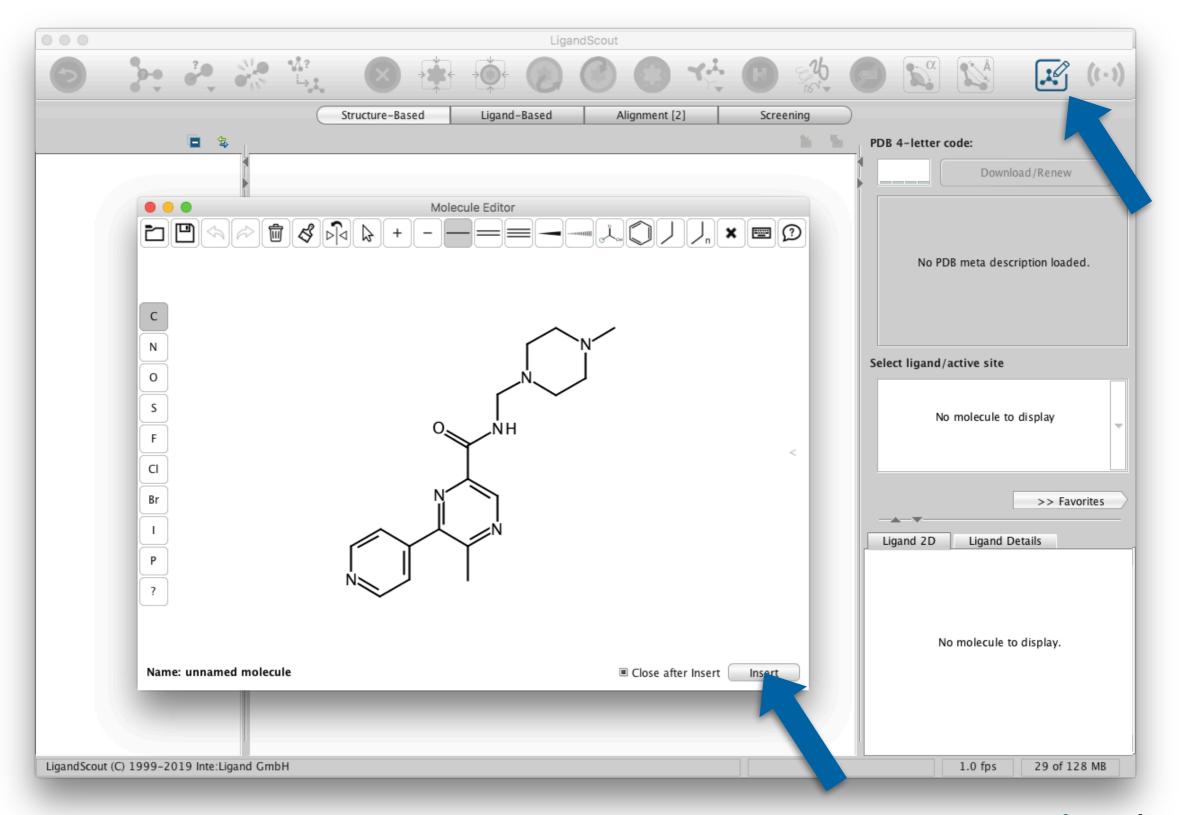
and the Inte:Ligand KNIME Extensions

What's New in LigandScout 4.4



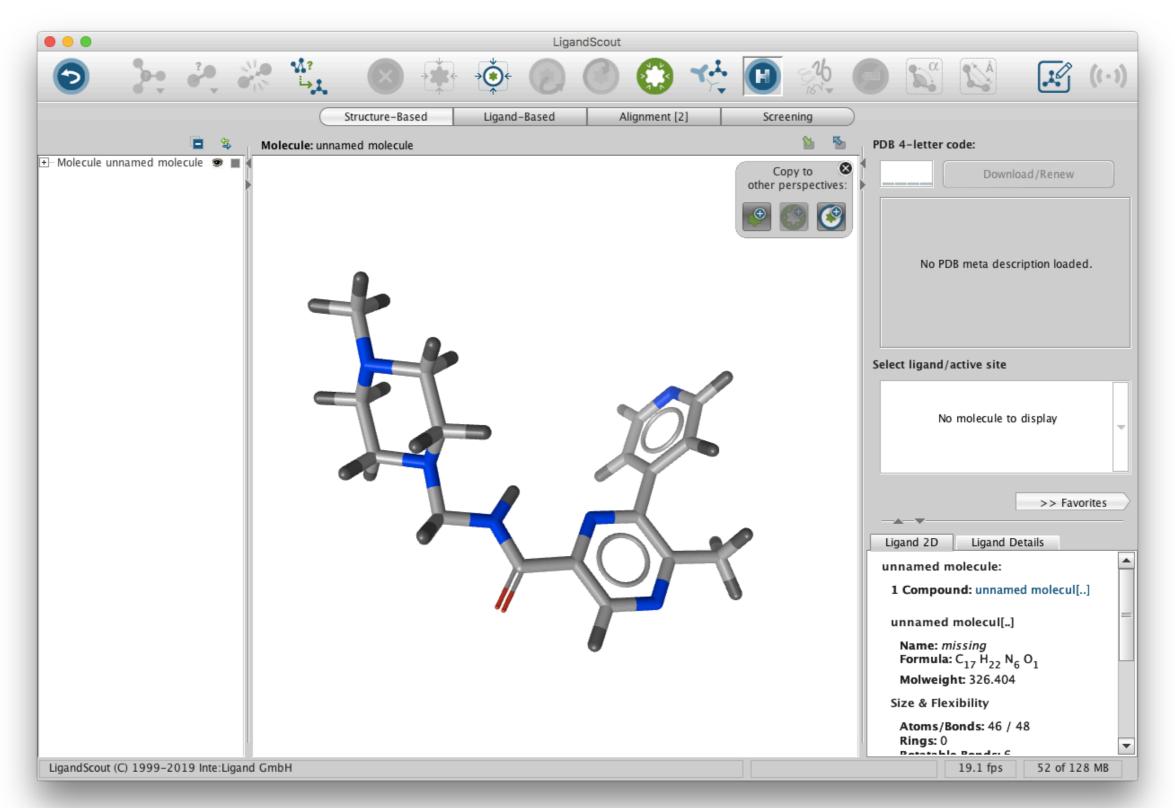


New 2D Molecule Editor

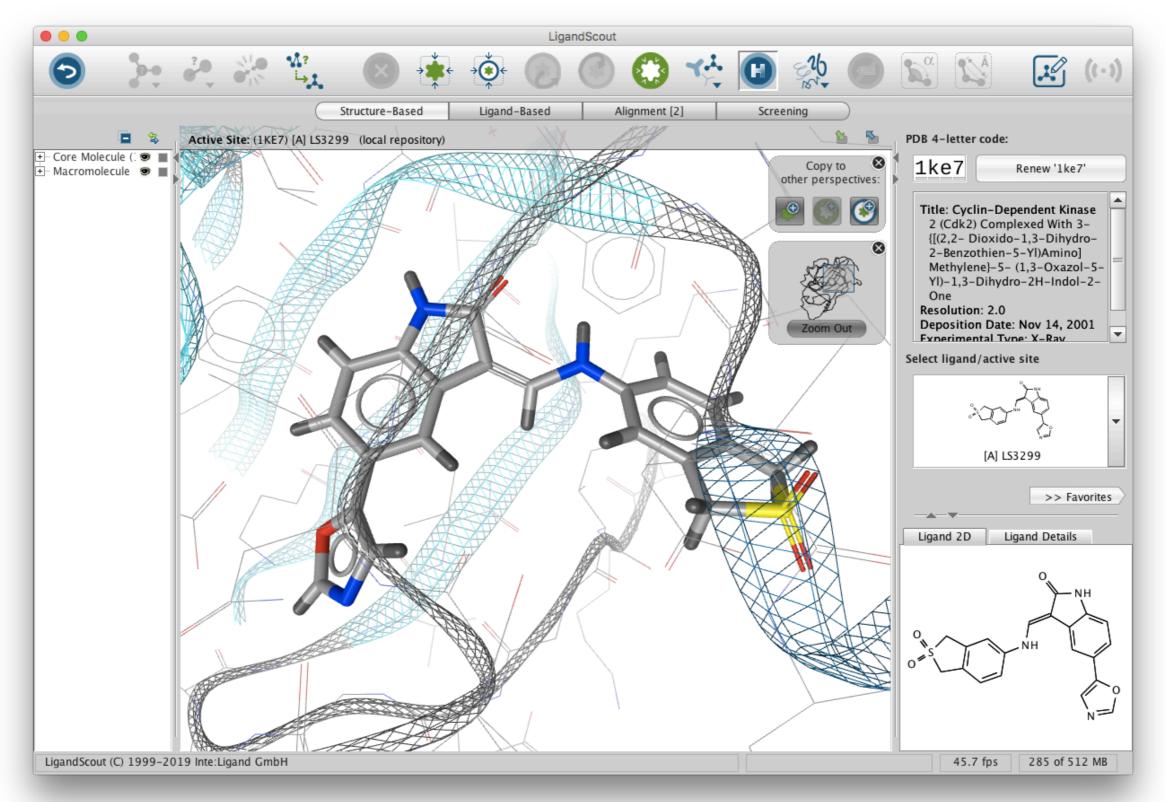




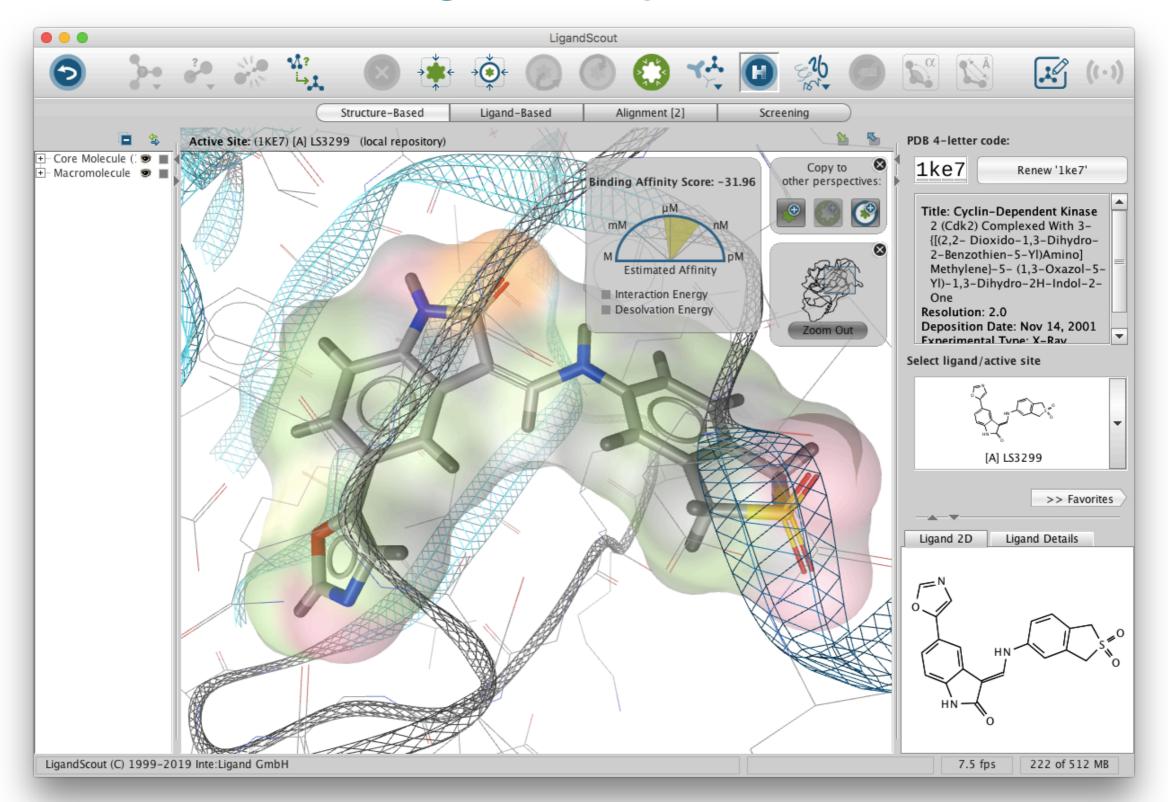
New 2D Molecule Editor



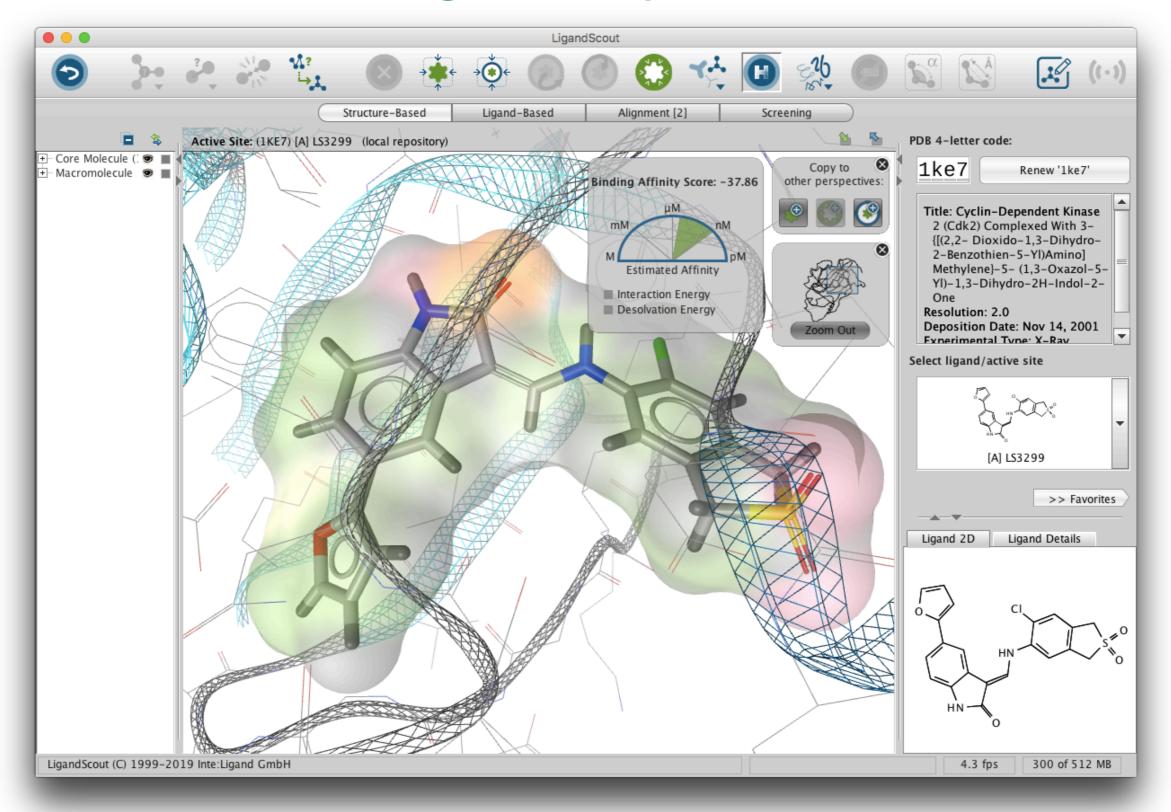




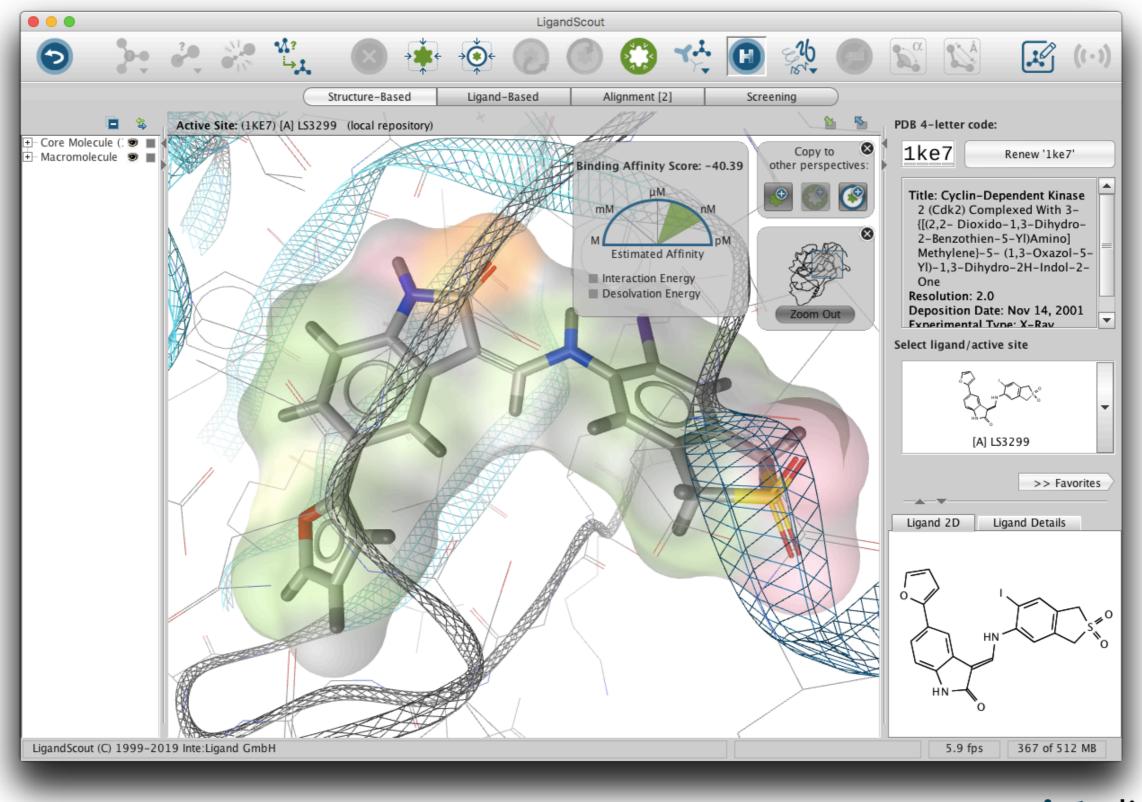


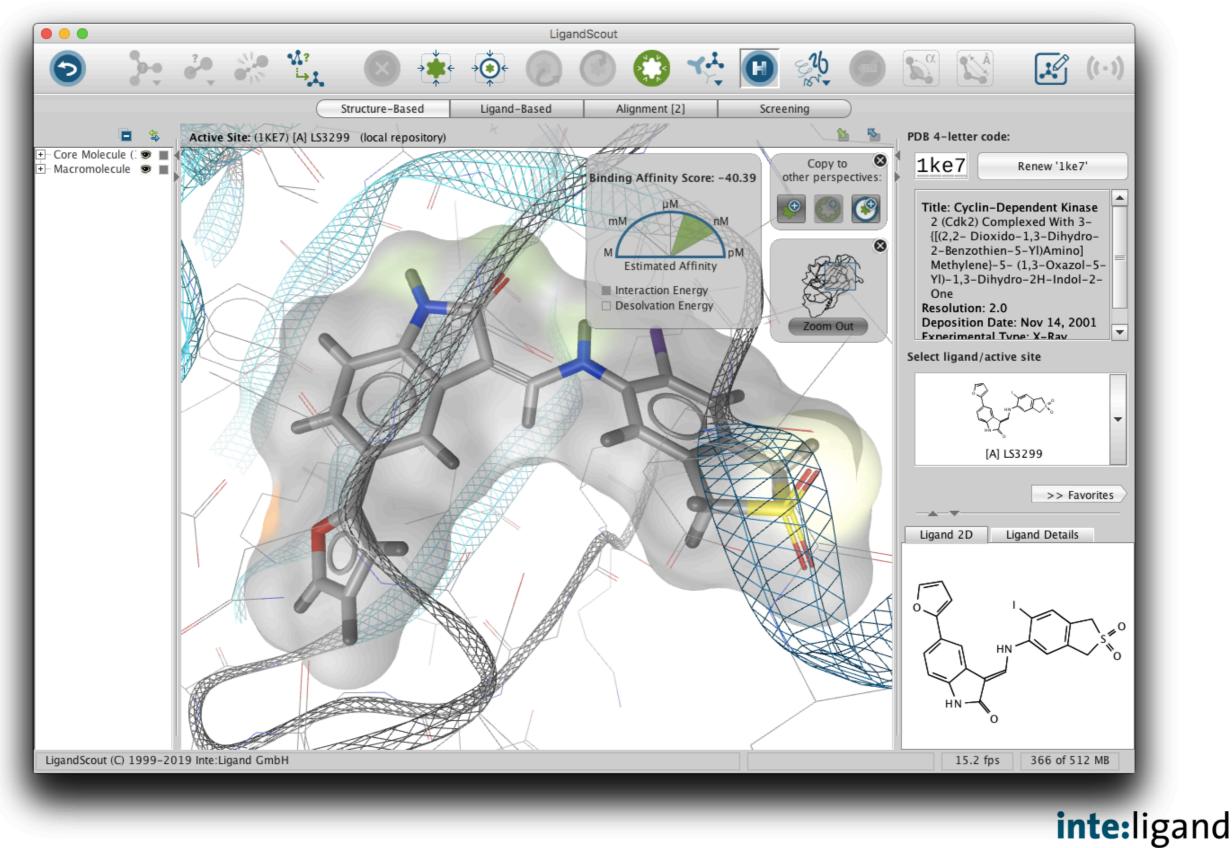




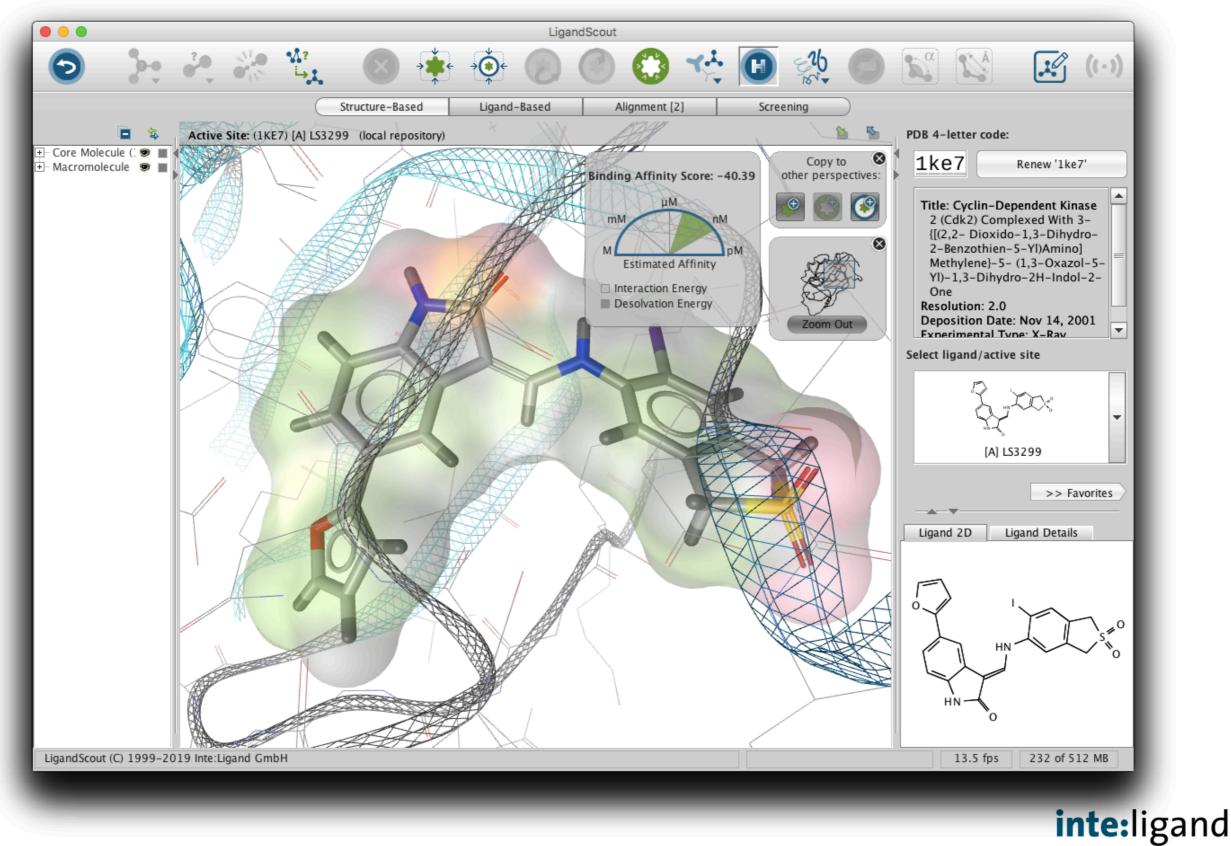


inte:ligand Advance Your Molecular Design

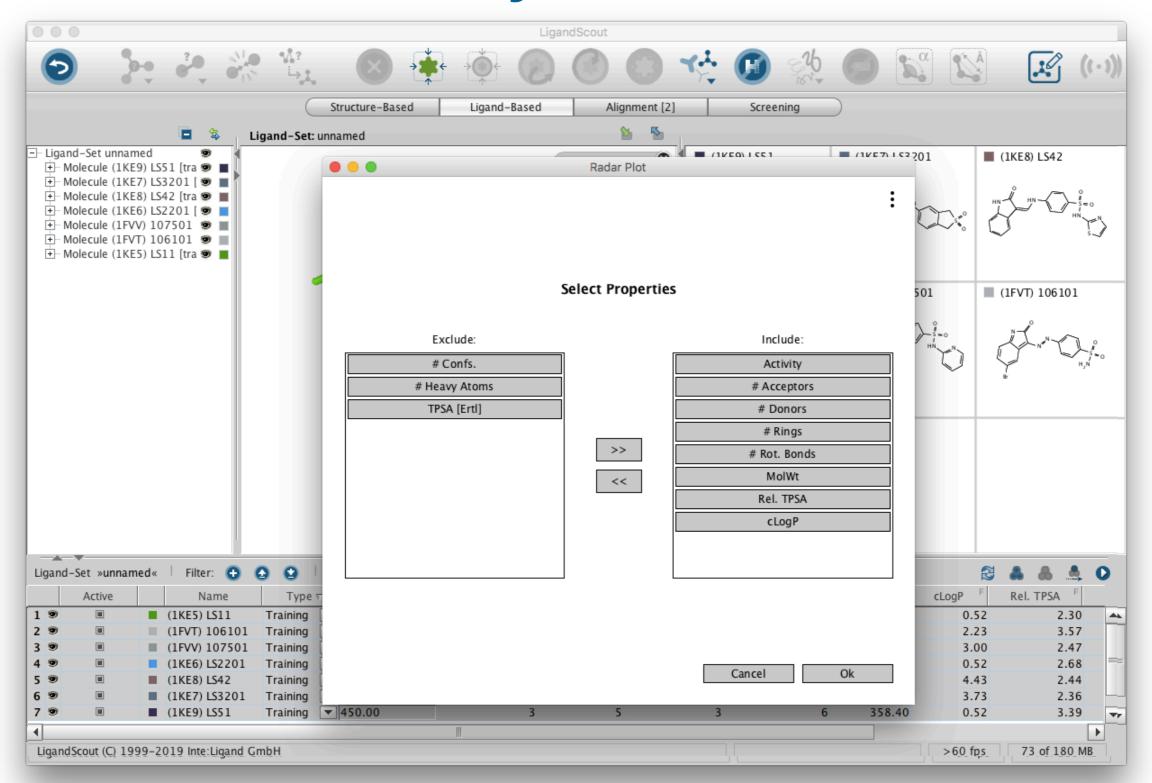


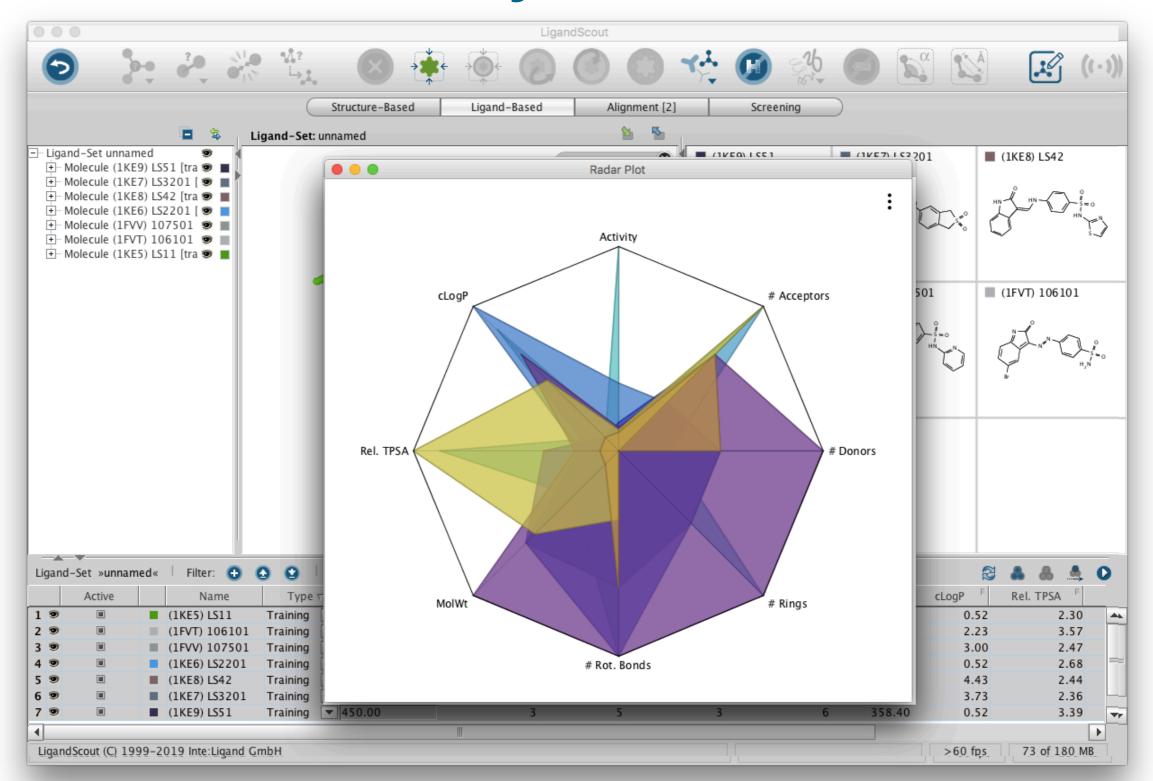


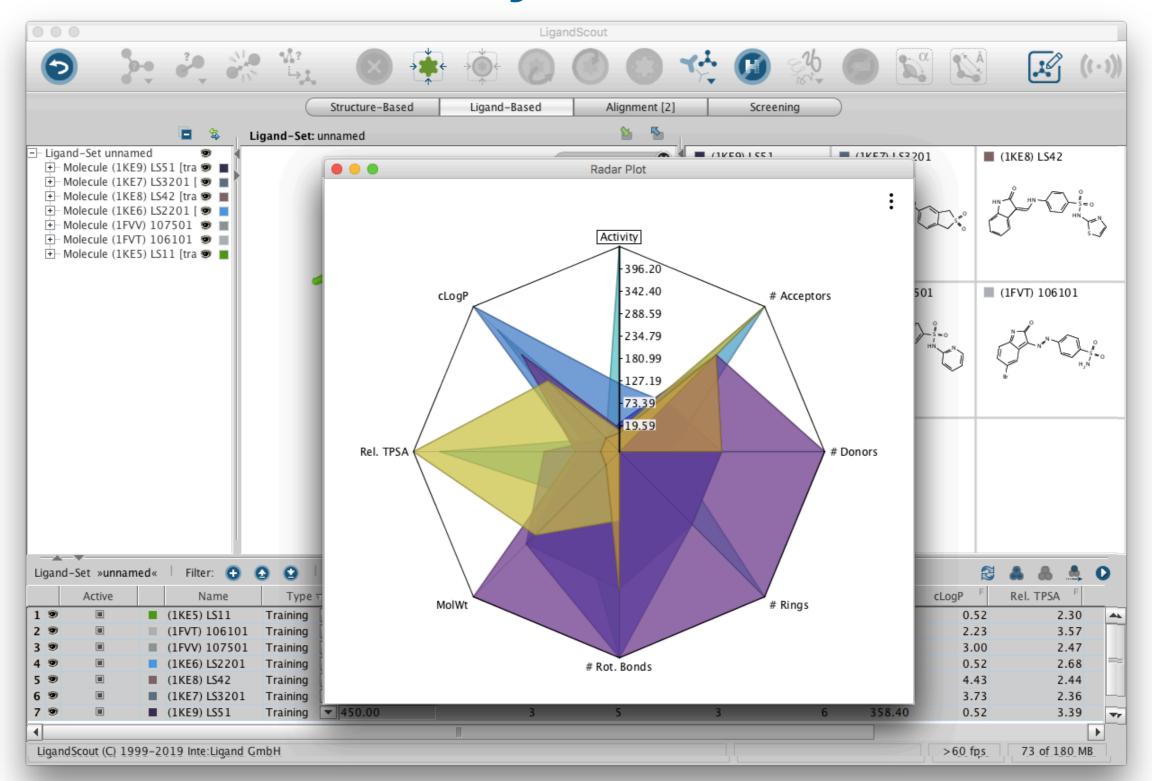
Advance Your Molecular Design



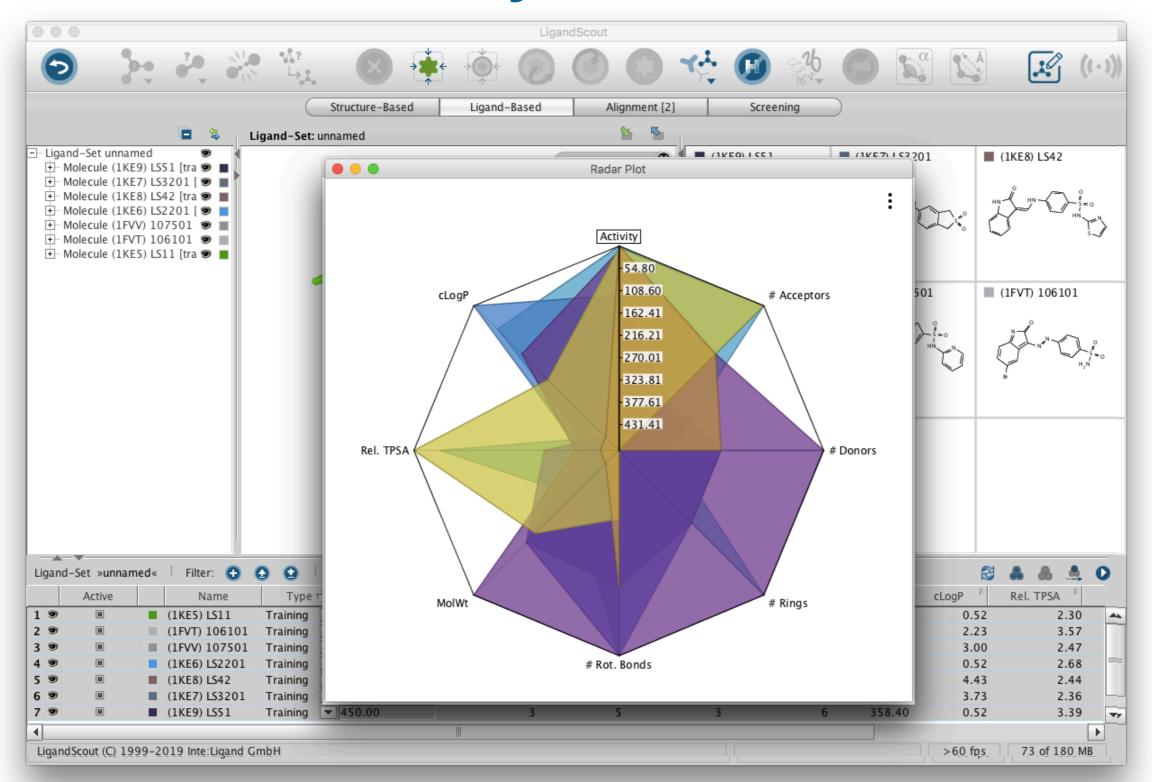
Advance Your Molecular Design





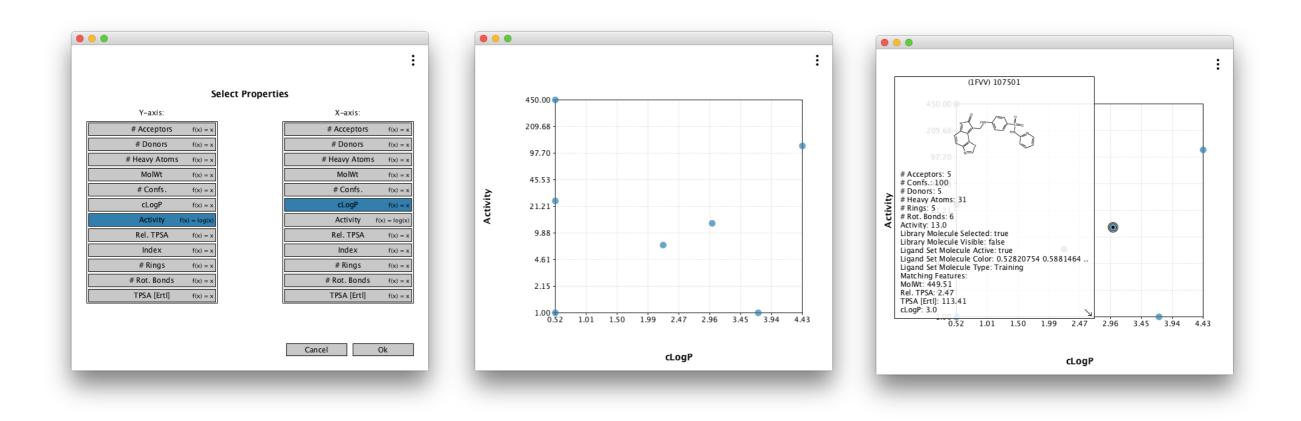


inte:ligand Advance Your Molecular Design



Interactive Data Analysis

- New features in scatter & parallel coordinate plots
 - Invert axes
 - Scale axes with pre-defined math functions and define ranges
 - Obtain molecular information interactively



inte:ligand Advance Your Molecular Design

What's New in LigandScout 4.3?

- Remote execution from the GUI:
 - iScreen on local HP clusters or on the Amazon Cloud*
 - idbgen on local HP clusters or on the Amazon Cloud*
- Halogen bond acceptor feature
- New fully searchable online help system



Remote Execution from the GUI

LigandScout Remote: A New User-Friendly Interface for HPC and Cloud Resources

Thomas Kainrad,*^{,†,‡} Sascha Hunold,^{*,†} Thomas Seidel,[§] and Thierry Langer^{§,‡}

[†]Faculty of Informatics, TU Wien, A-1040 Vienna, Austria

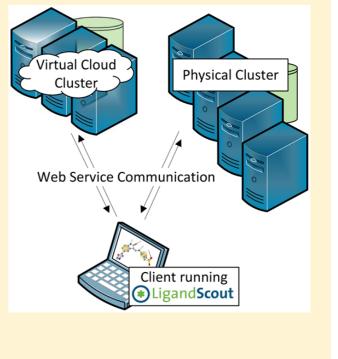
[‡]Inte:Ligand Software Development and Consulting GmbH, A-1070 Vienna, Austria

[§]Department of Pharmaceutical Chemistry, University of Vienna, A-1090 Vienna, Austria



JOURNAL OF CHEMICAL INFORMATION AND MODELING

ABSTRACT: High-performance computing (HPC) clusters play a major role in scientific research. However, working with these clusters is often cumbersome, especially for researchers without a formal background in computer science. It requires preparation and transfer of the input data, manual gathering of results, and command-line expertise. Current approaches for improving accessibility to remote HPC clusters are focused on providing web-based graphical front-ends that allow jobs to be submitted to the distributed resource management system running on the cluster. This comes with significant usability benefits over command-line usage but does not circumvent the need for manual handling of the input and output files. With LigandScout Remote, we propose a different solution. Our software enables the seamless integration of HPC resources into the LigandScout desktop application that scientists use also in their day-to-day work. By handling necessary data conversion and network communication transparently to the user, this approach completely evades any HPC usability barriers. We show that the developed software combines the usability of local graphical desktop applications with the performance of HPC clusters.

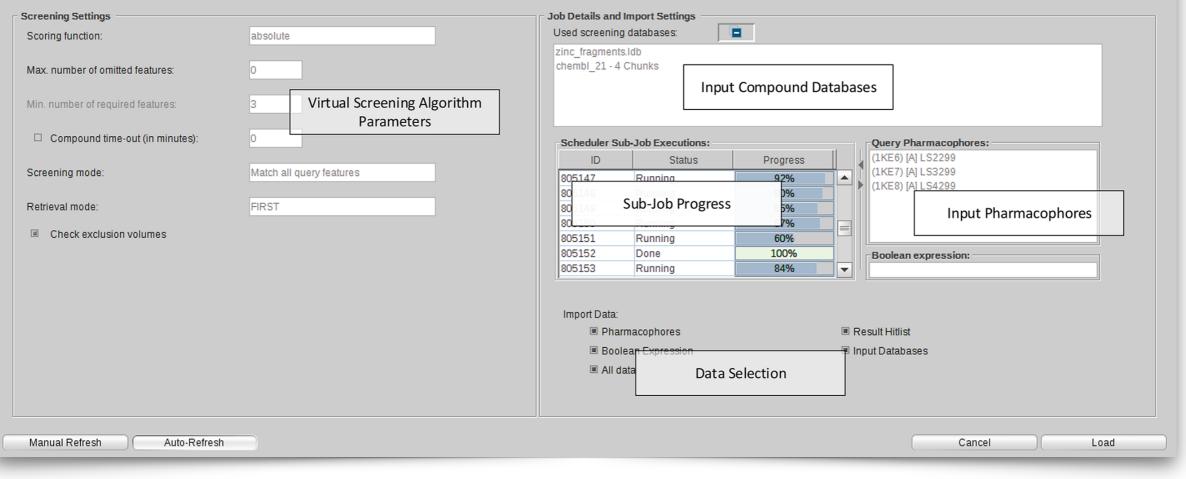


Remote Execution from the GUI

😣 💿 Load Remote Screening Job

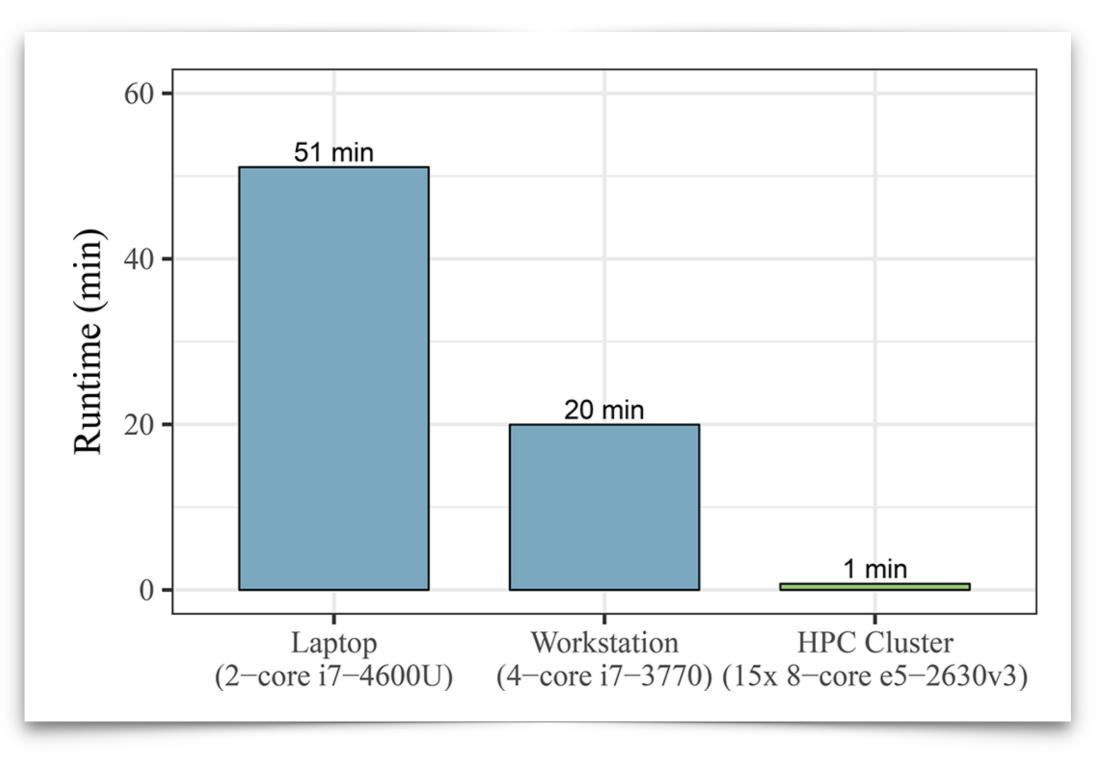
Select Remote Screening Job to load and which data to include 👔

| Available Slots: 282/768 | | Filter criteria: | User: tkainrad | Pharmacophore 💌 | | | | | | | | |
|--------------------------|----|--------------------------|----------------|----------------------------|---------------------------|-----------------------|----------|-----------------------|----------|--------------------------|---|--|
| Job Name ID 🗸 | | O ⊽ Compounds Screened H | | Hit Count Total #Compounds | | Created | | Finished | Duration | Error Message | | |
| job_75 | 75 | 1021001 | 61 | 1297868 | 78% Wed, 5 Dec 2018 11:46 | | | | | | | |
| job_72 | 72 | 1261901 | 151 | 1297868 | 97% | Wed, 5 Dec 20 | 18 11:38 | | | | | |
| job_70 | 70 | 20292 | 0 | 20292 | 100% | Wed, 5 Dec 2018 11:24 | | Wed, 5 Dec 2018 11:29 | 5m 11s | | | |
| job_69 | 69 | 1288869 | 169 | 1297868 | 99% | Wed, 5 Dec 20 | 18 11:22 | | | | = | |
| job_68 | 68 | 753412 | 18 | 12978 | canceled (58%) | | 18 11:18 | | | Job canceled on purpose. | | |
| job_61 | 61 | 1297868 | 0 | 12978 | Current Prog | gress | 8 10:59 | Wed, 5 Dec 2018 11:39 | 39m 53s | | | |
| job_58 | 58 | 20292 | 0 | 202 | 100% | Wed 5 Dec 20 | 18 10:53 | Wed, 5 Dec 2018 10:58 | 5m 4s | | | |
| job_57 | 57 | 2997 | 0 | 2997 | 100% | Wed, 5 Dec 20 | 18 10:49 | Wed, 5 Dec 2018 10:50 | 1m 2s | | | |
| job 56 | 56 | 20310 | 0 | 26503 | canceled (76%) | Wed, 5 Dec 2018 10:48 | | | | Job canceled on purpose. | - | |





Screening Performance Comparison



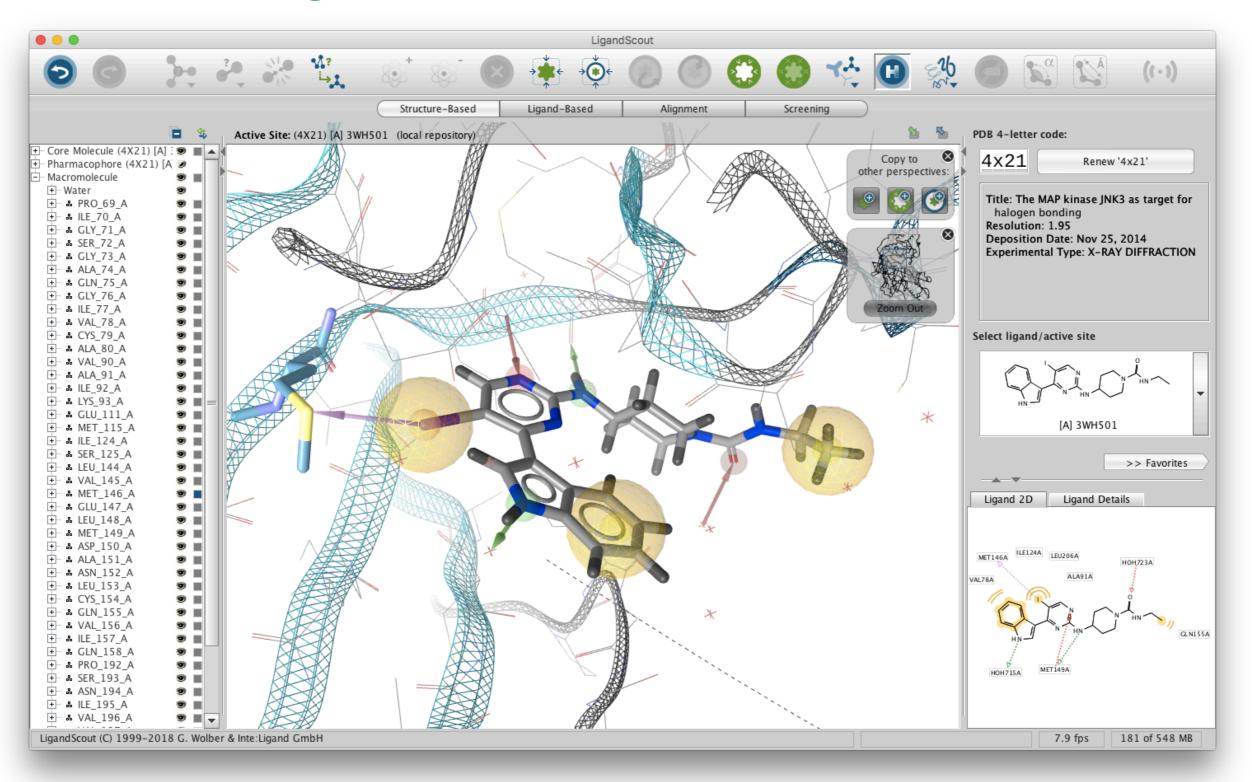


https://docs.inteligand.com/ls-remote

| ● ● ● < > □ ☆ ■ docs.inteligand.com ♂ | O Å P + |
|---|--|
| | Q Search |
| | |
| Overview | Table of contents |
| | Combining Graphical User Interfaces and HPC |
| Combining Graphical User Interfaces and HPC | Motivation |
| LigandScout Remote enables the seamless integration of high-performance computing (HPC) | About this Documentation |
| resources into the LigandScout desktop application. By handling necessary data conversion and | |
| network communication transparently to the user, this approach evades any HPC usability barriers. | |
| Virtual Cloud Cluster Web Service Communication Client running Client running Client Scout | |

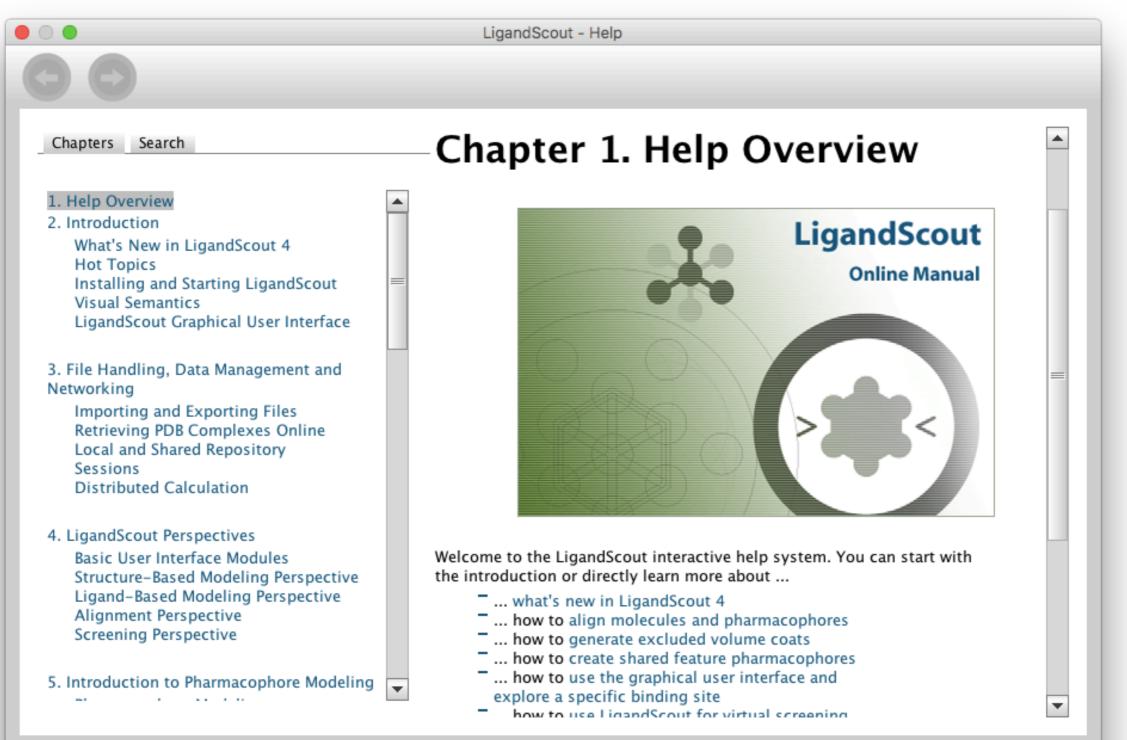


New: Halogen Bond Acceptor Feature





Fully Indexed Online Help Manual





What was new in LigandScout 4.2?

- User interactive charts for analyzing and filtering tables
- Fully editable tables, import & export from and to Excel
- Fully editable parameter sets for library filtering
- Find ligands present in the PDB database in any table
- Remodelled workflow for ligand-based pharmacophore generation
- Visualization of multiple superimposed binding sites
- MD trajectory import from Amber & Gromacs, in addition to Charmm
- Automated creation of pharmacophores from MD trajectories
- Tools for analysis of pharmacophores derived from MD



Some Unique Features of LigandScout

Structure-based pharmacophore modeling

- Automated recognition of ligand-protein interactions
- User-friendly analysis of tautomers & side chain rotamers

Ligand-based pharmacophore modeling

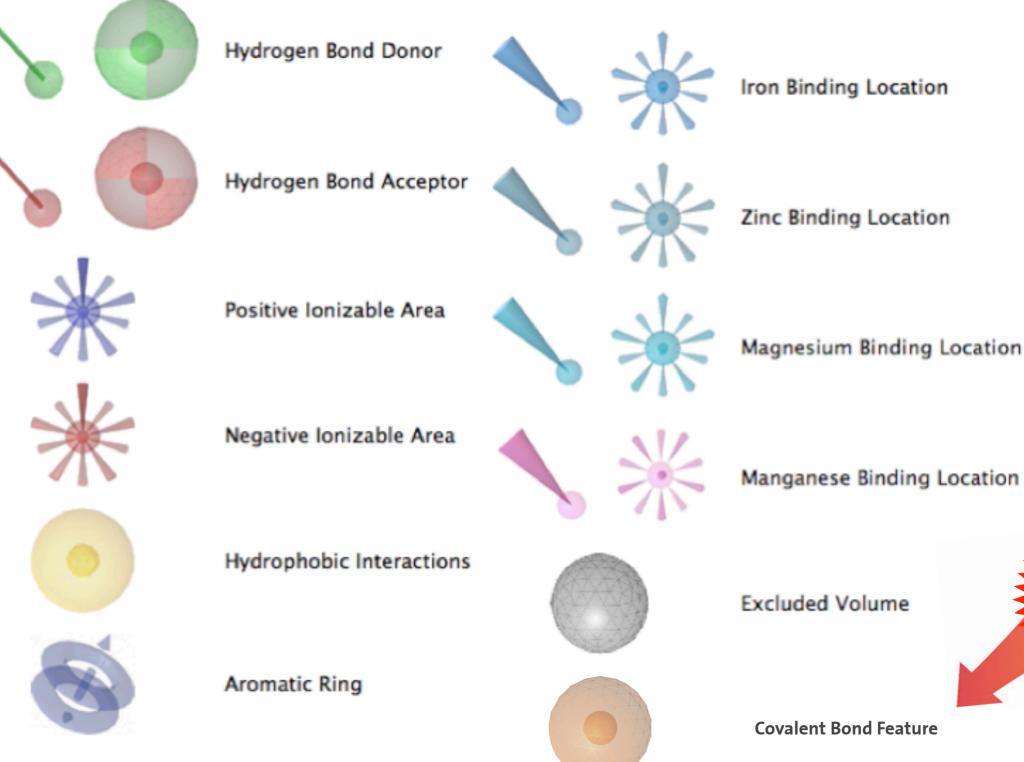
- Pharmacophore-based ligand clustering
- Automated creation of exclusion volume for ligand-based pharmacophores
- Unlimited number of features per pharmacophore

Virtual screening

Speed & accuracy increases with the number of features



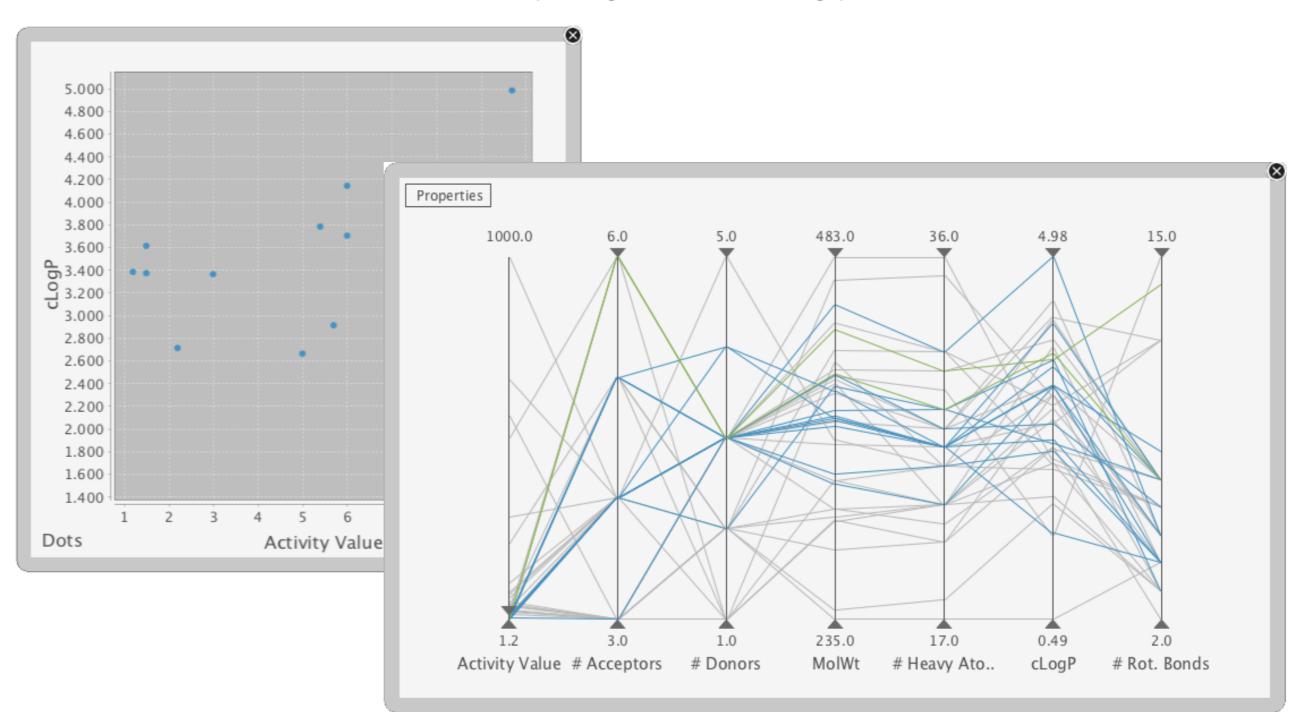
LigandScout Pharmacophore Features



inte:ligand Advance Your Molecular Design

Interactive Charts

• Use interactive charts for analyzing and filtering your tables



inte:ligand Advance Your Molecular Design

Tables: Now Fully Editable

• Add and remove information, import & export from and to Excel

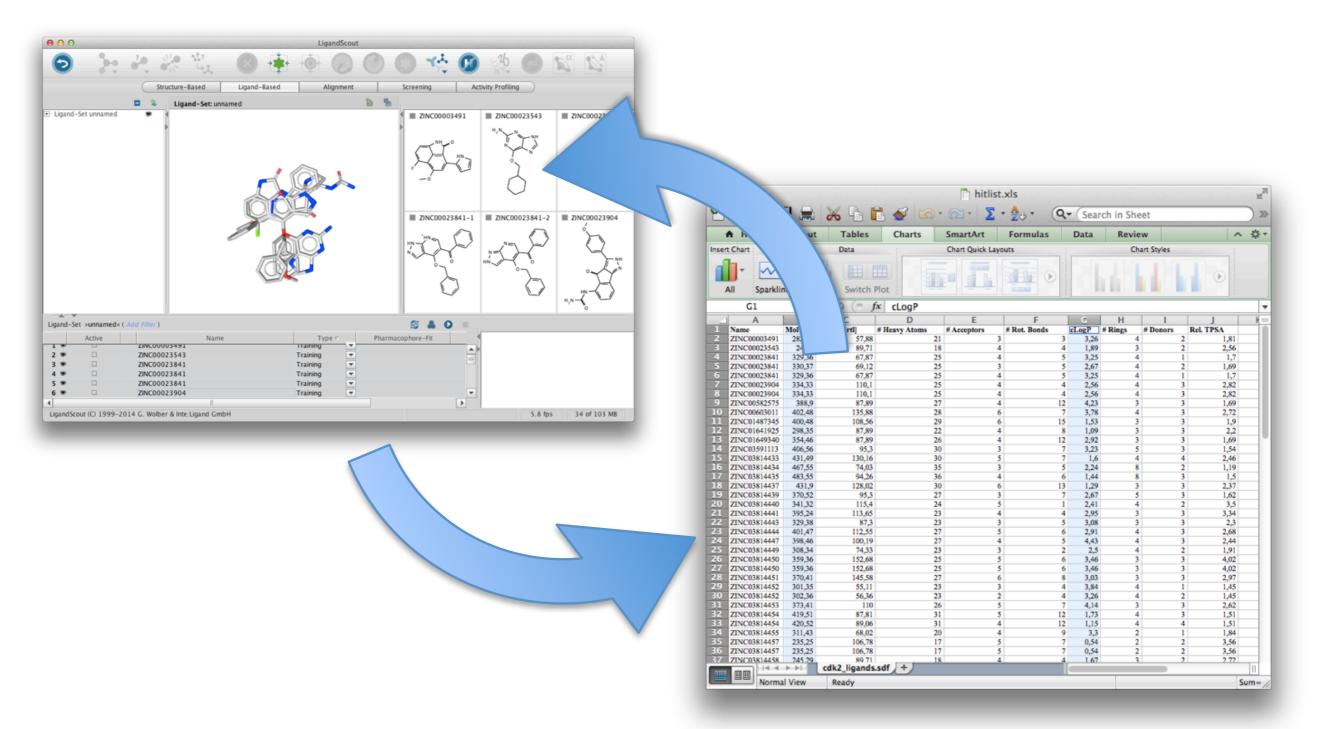




Table Filtering

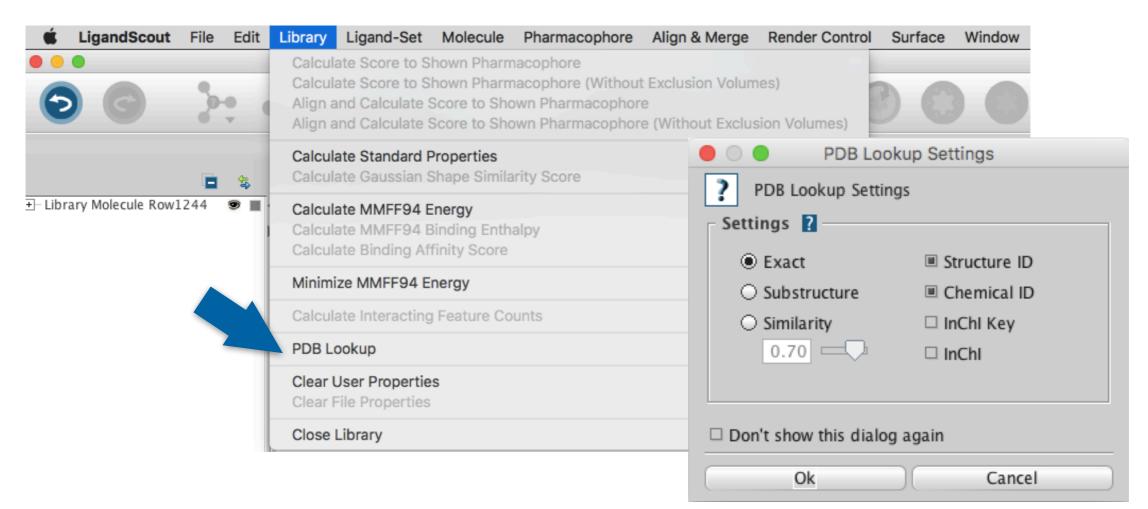
• Save and import your parameter sets for table and library filtering

| | | | ■ cLogP < '5.000' | Ø × |
|--------------|-------------------------------------|--|---|-----|
| Look In: 1/U | | tt There are no solution of the specified for filetype. Please select a drop-down bo filename into the field. | cLogP > '0.000' MolWt < '500.010' # Acceptors < '10.100' | |
| | | | ■ # Donors < '5' | @ × |
| | Lipinski.fil Filter Set (*.fil) | oen File | ✓ Cancel | |



PDB Online LookUp

- Find out if a molecule from your table is present in the PDB database
- Check also for similar structures or search for substructures





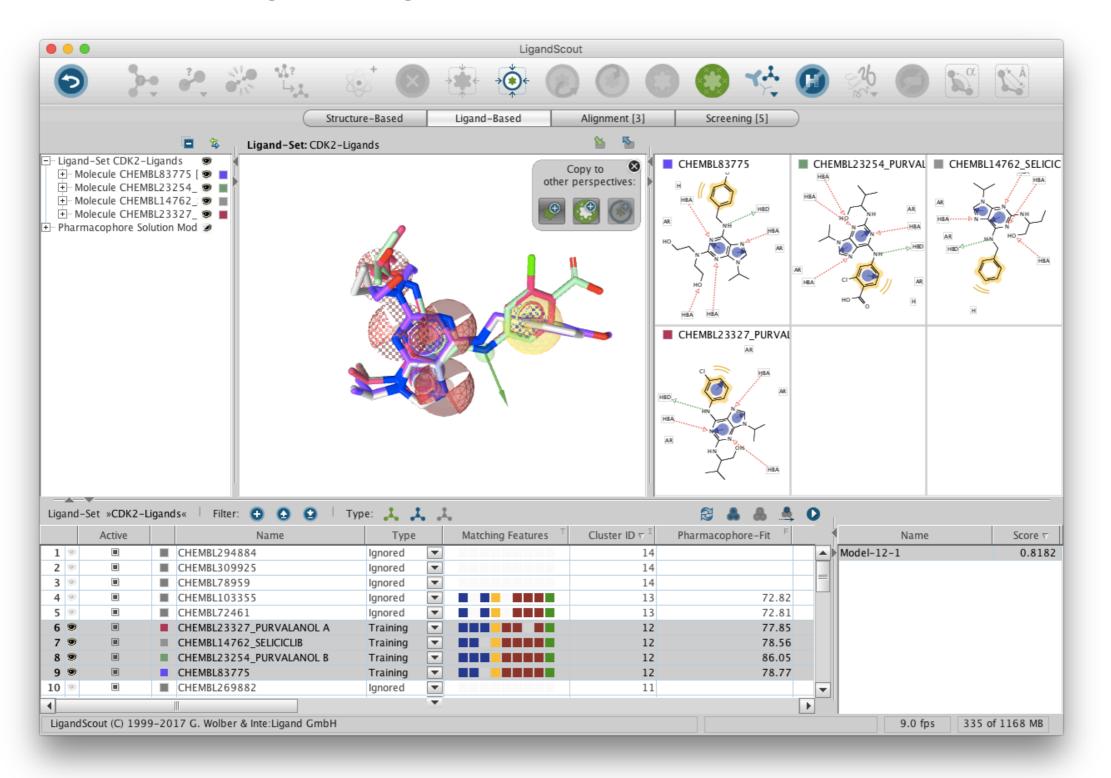
PDB Online LookUp

- Find out if a molecule from your table is present in the PDB database
- Check also for similar structures or search for substructures

| LigandScout File Edit | Library Ligand- | Set Molecule | Pharmacophore | Align & Merge | Render Control | Surface | Window | | |
|-----------------------------------|--|--|---|---------------|---|-------------|-----------|--|--|
| 6 | Calculate Score Align and Calcu | to Shown Pharma to Shown Pharma late Score to Show late Score to Show | acophore (Without vn Pharmacophore | 9 | | | 0 | | |
| a | Calculate Standard Properties Calculate Gaussian Shape Similarity Score | | | | PDB Lookup Settings PDB Lookup Settings Settings Exact Structure ID | | | | |
| ary Molecule Row1244 💿 🔳 | Calculate MMFF | Calculate MMFF94 Energy Calculate MMFF94 Binding Enthalpy Calculate Binding Affinity Score | | | | | | | |
| | Minimize MMFF94 Energy Calculate Interacting Feature Counts PDB Lookup | | | 0 | ⊖ Substructure | ■ Ch | emical ID | | |
| | | | | | O Similarity InChi k | | | | |
| Name | | Chemical ID T | | Structu | re ID 🔻 | | т | | |
| NU-6102 | 12 | 4 SP | > | 5M57,4EOK,5LC | F,4EOR,2C6O,1H | 1S,2IW9,2IV | V8 | | |
| STAUROSPORINE | 33 | STU | 2CLQ,2HW7,3S95,5OOR,4QFG,4CFH,5ISO,2PZY,4ERW,3A4O,4 | | | | | | |
| Row6832 | 11 | D42 | | | | | | | |
| SELICICLIB | 20 | RRC | | | | L,3DDQ,1YC | | | |
| PURVALANOL A | 31 | P01 | | | | | | | |
| INDIRUBIN SULFATE | 30 | SU9 | | | | F8,3PY0,3P | | | |
| (7S)-HYDROXYL-STAUROSPO Row653 | 28 DRINE | UCN HDY | | | | | | | |
| Row3341 | 28 | LSS | | | | | | | |
| Row2862 | 22 | LSS | | | | 1KE9,4FF | | | |
| Row2674 | 23 | LS3 | | | | 16 | | | |
| Row1763 | 25 | LS2 | | | | 1K | | | |
| Row202 | 26 | LS1 | | | | 1Ki | | | |
| Row8112 | 18 | 117 | | | | 1G | | | |
| + | | | 1 | | | | | | |

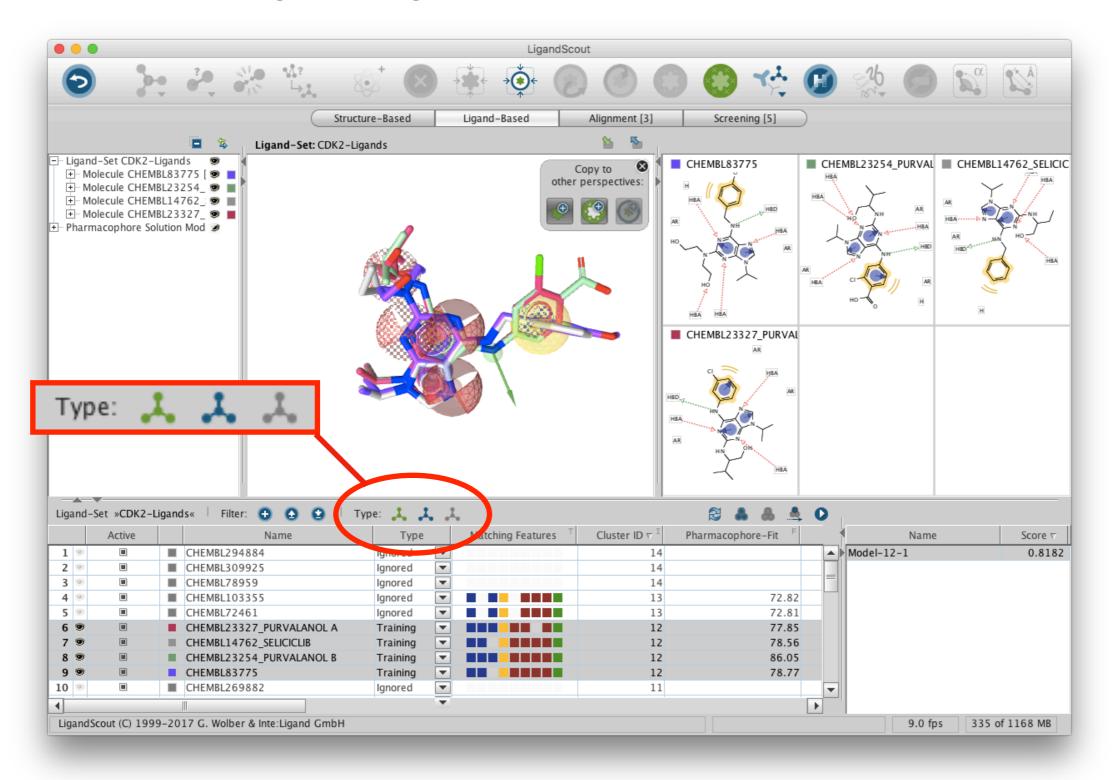
Single Click Ligand-based Model Generation

• Use new single click generation workflow



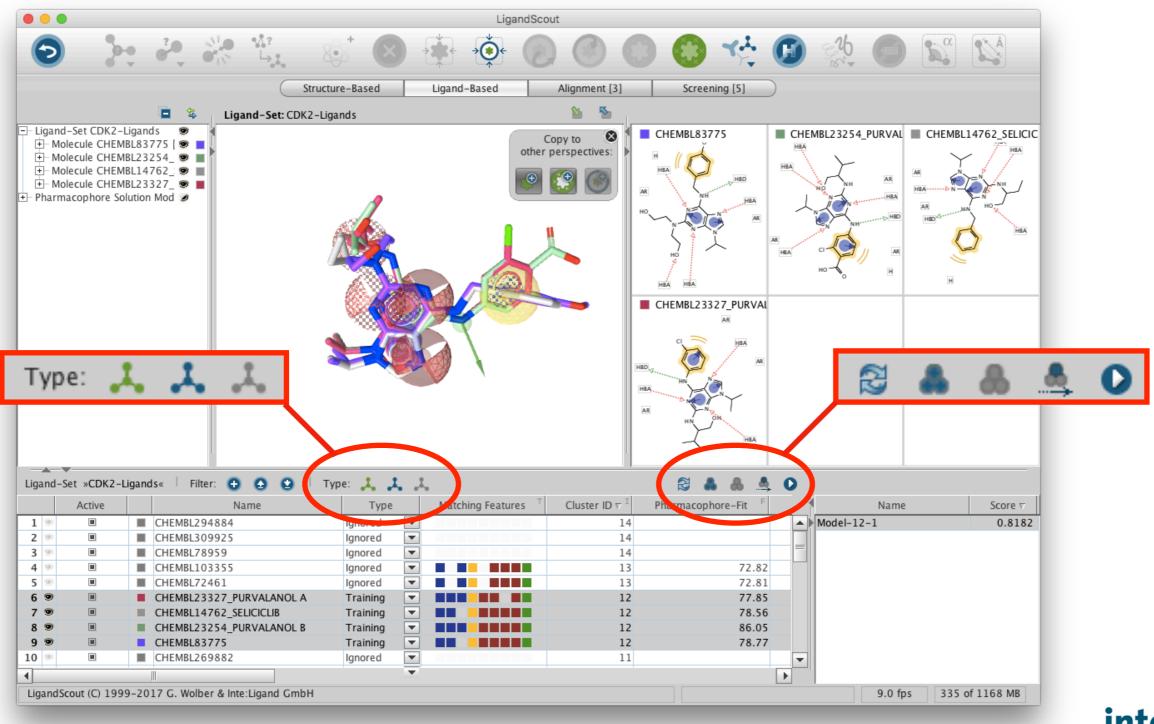
Single Click Ligand-based Model Generation

• Use new single click generation workflow



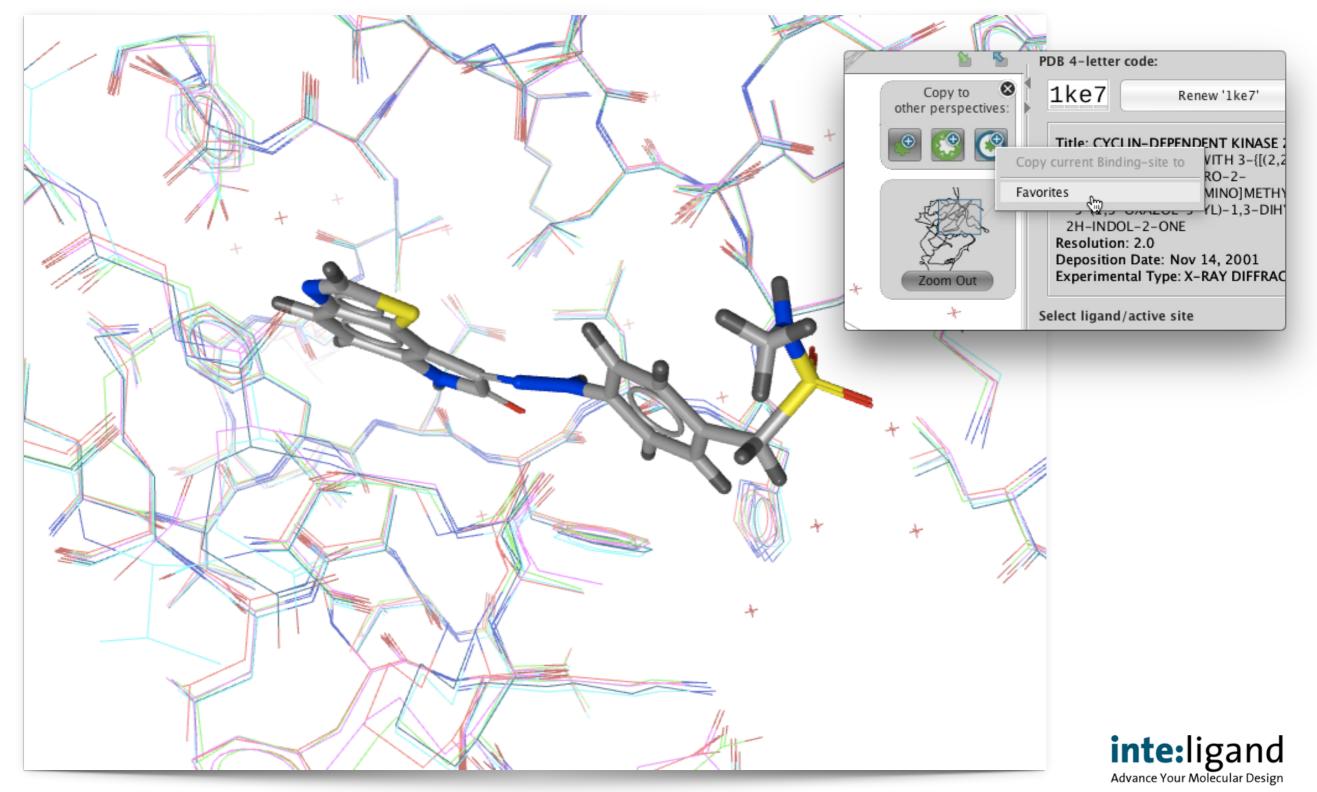
Single Click Ligand-based Model Generation

• Use new single click generation workflow



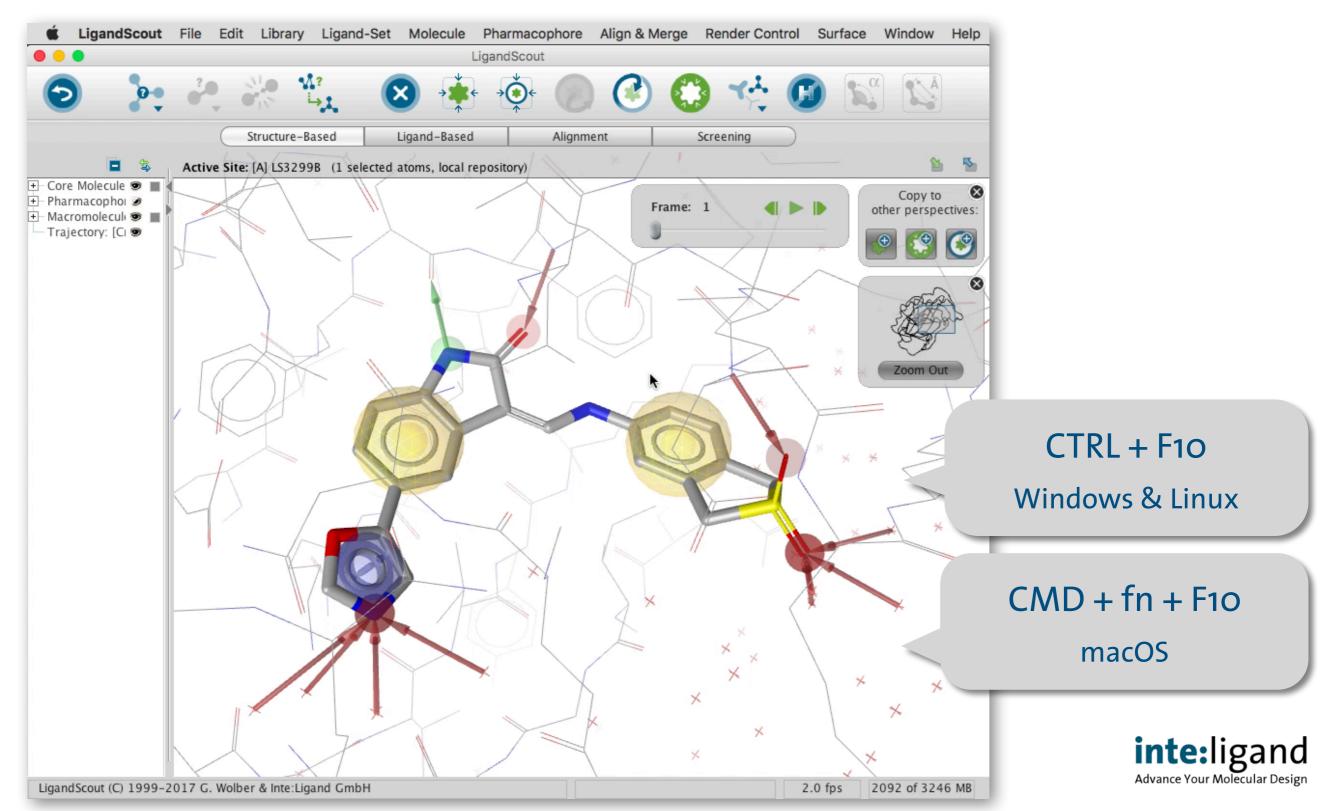
Protein Binding Site Analysis

• Visualize multiple superimposed binding sites in the favorites view



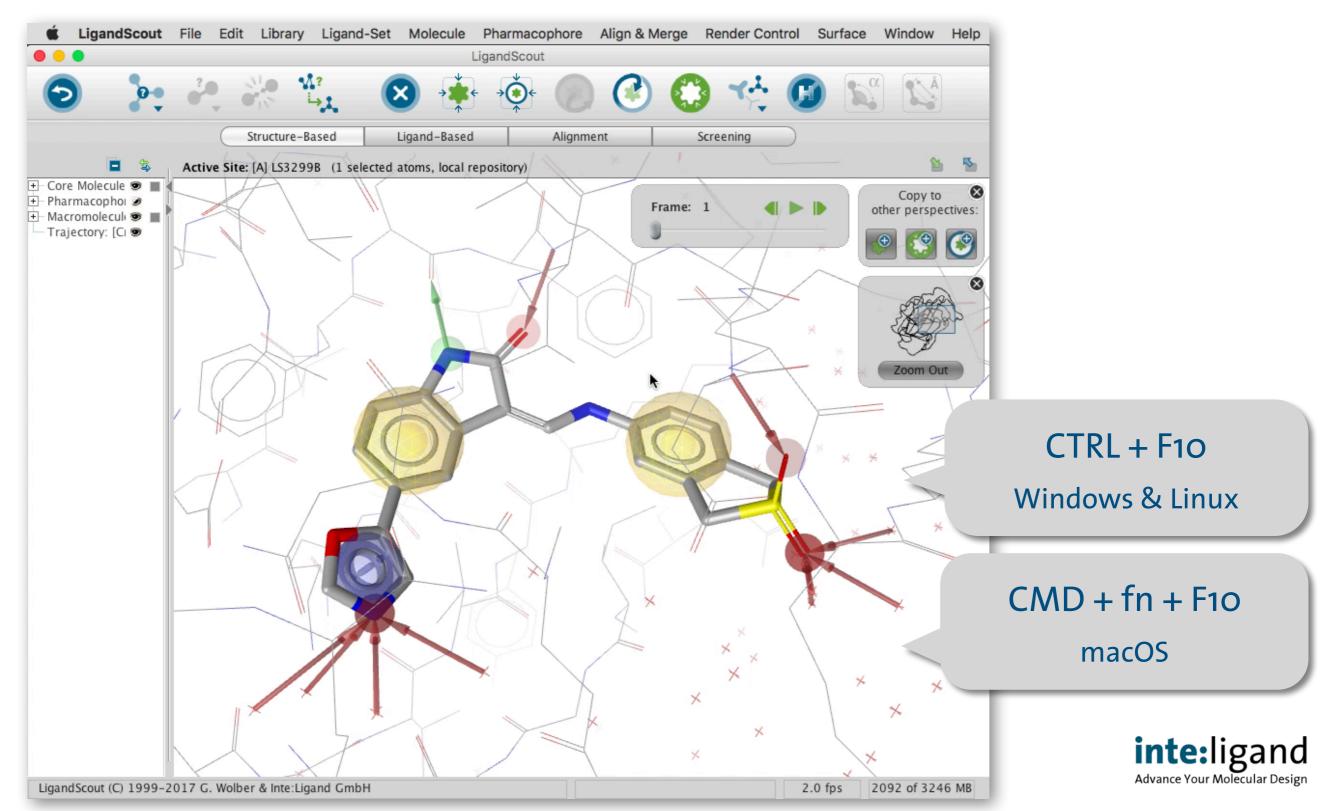
MD Trajectory Analysis

• Create automatically pharmacophores from your MD trajectories

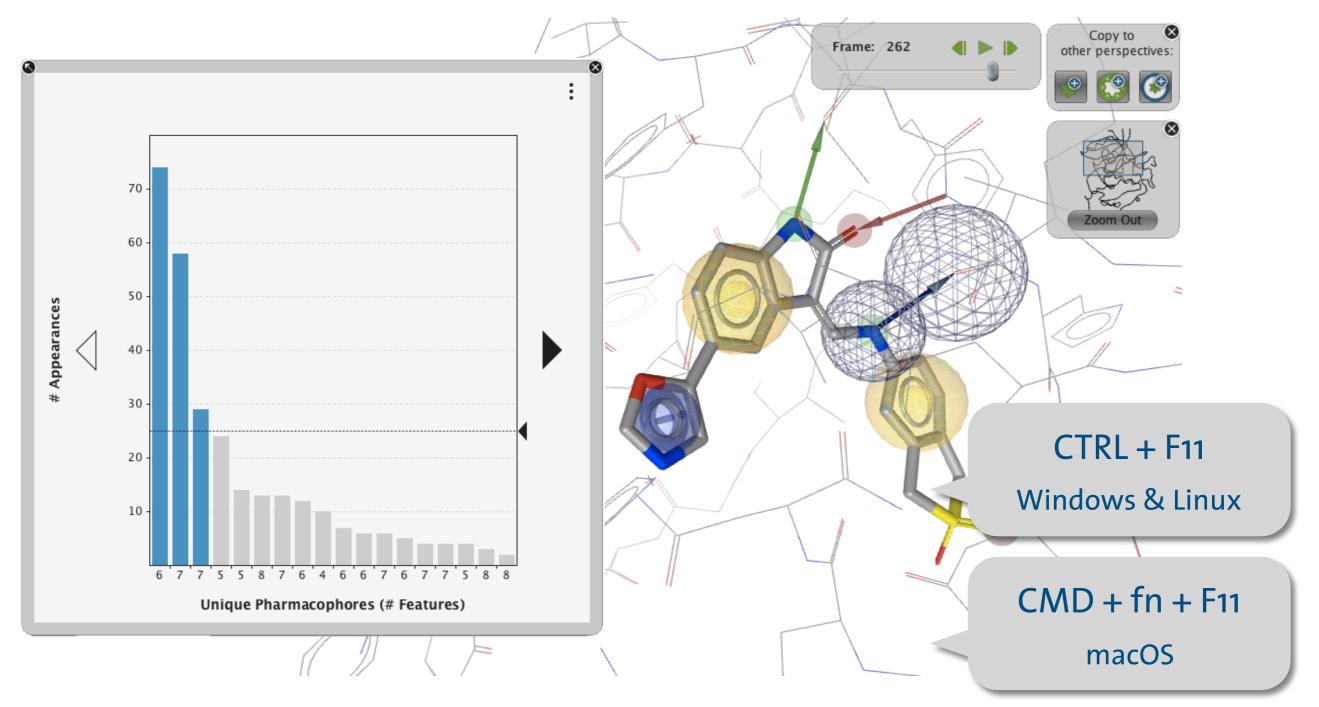


MD Trajectory Analysis

• Create automatically pharmacophores from your MD trajectories

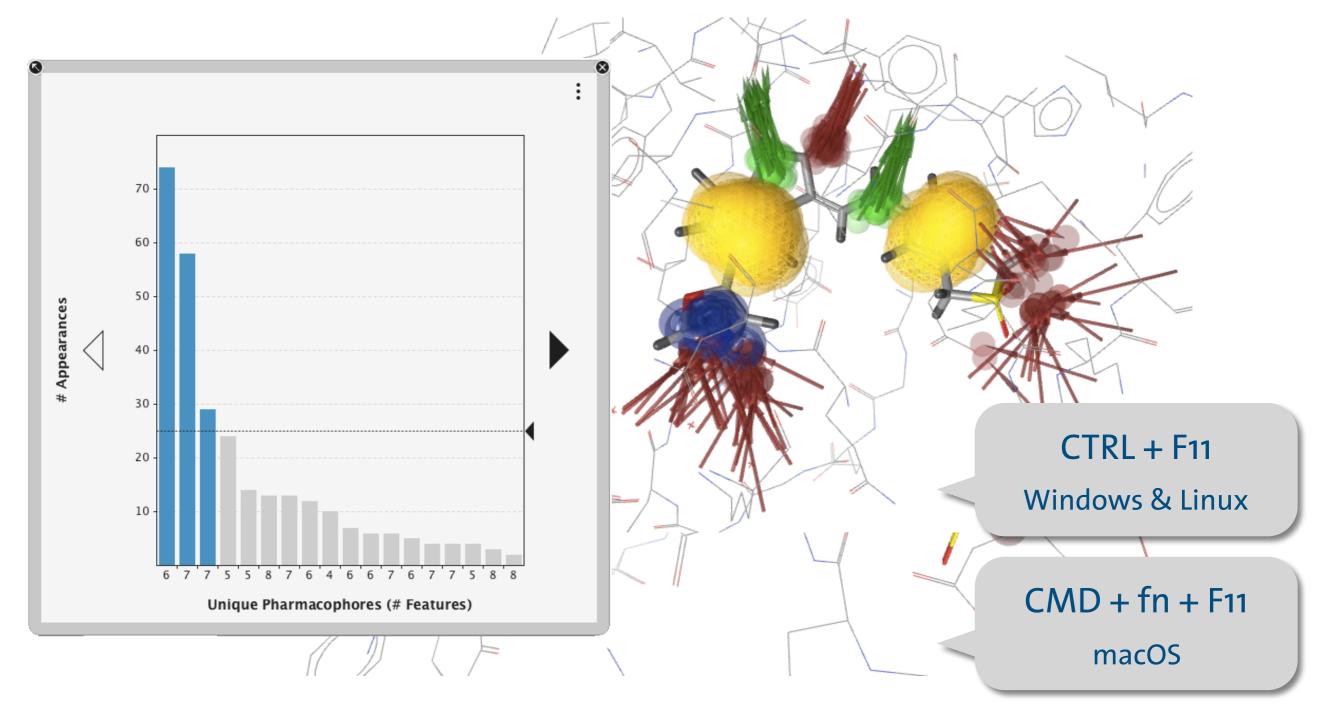


• Find all different unique pharmacophore models



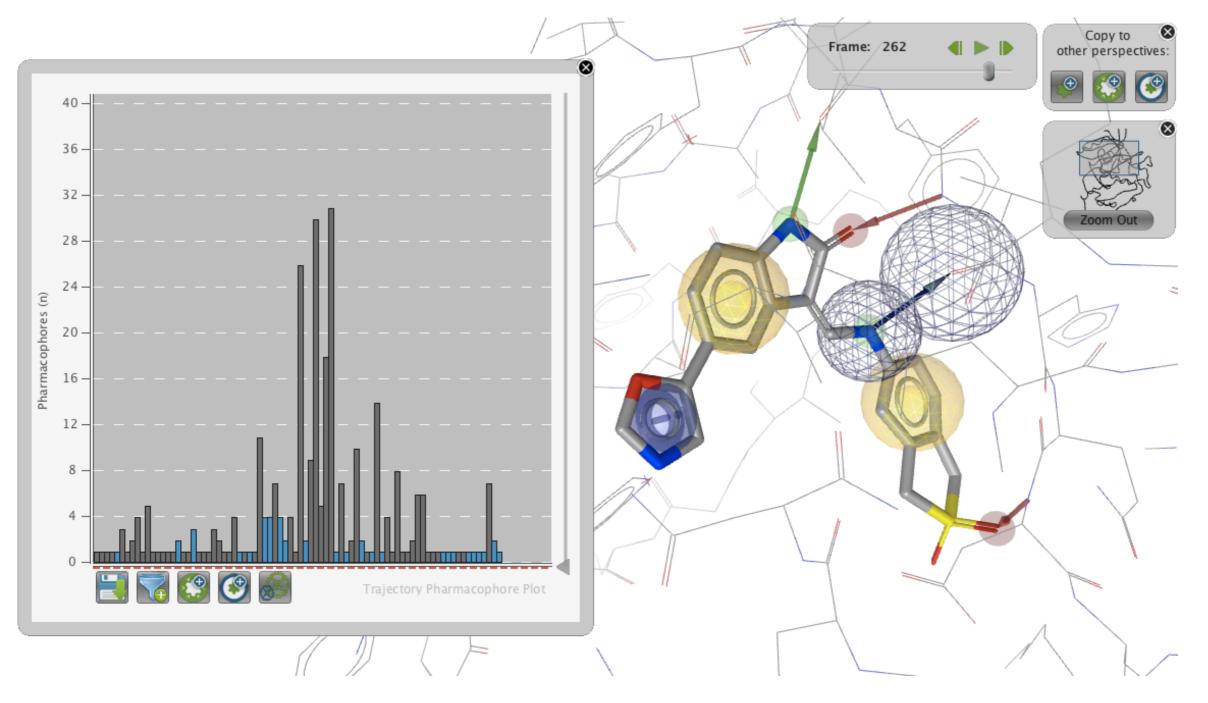


• Find all different unique pharmacophore models



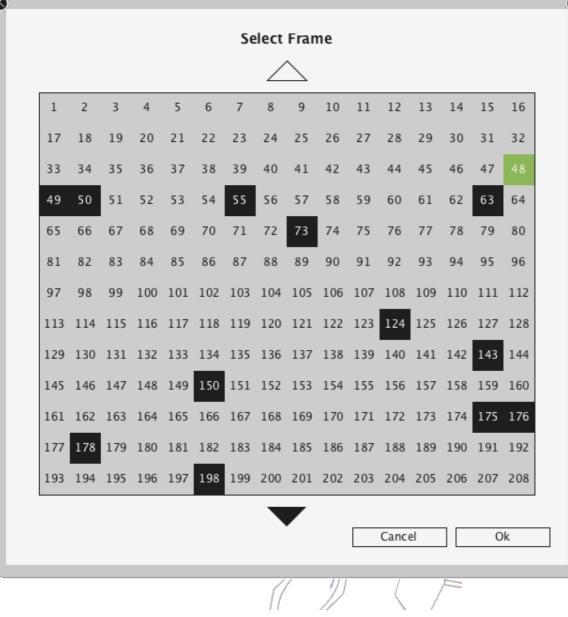


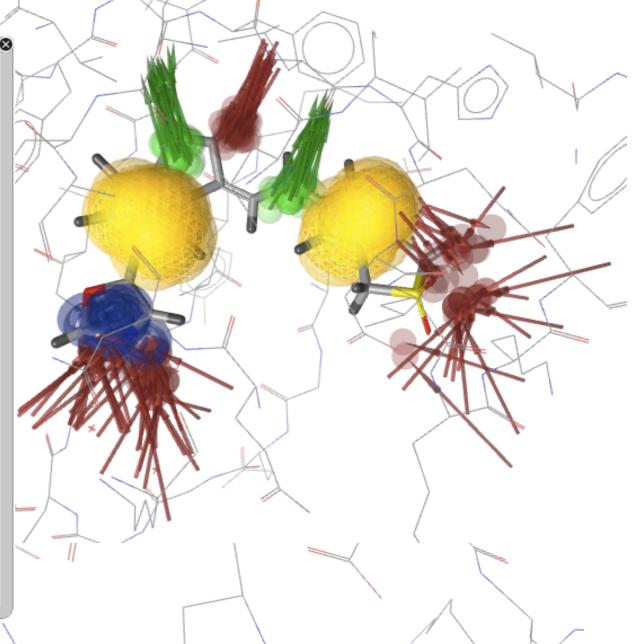
• Find all frames containing a selected pharmacophore feature





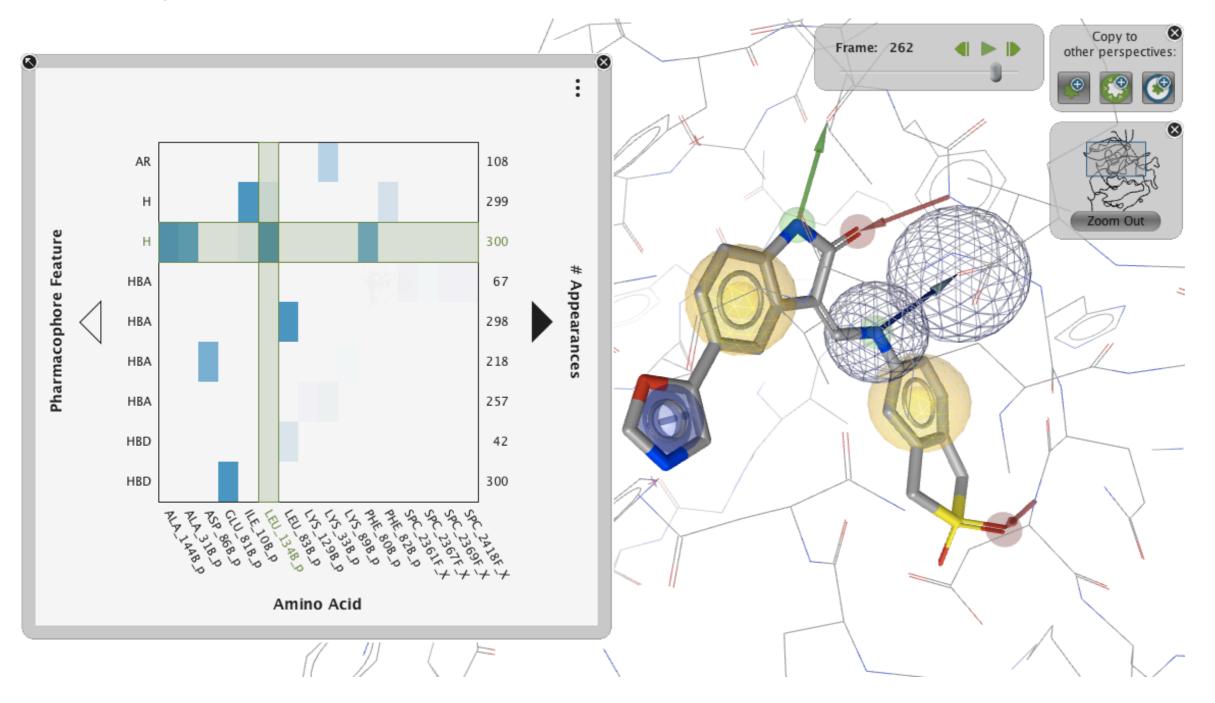
• Find all frames containing a selected pharmacophore feature





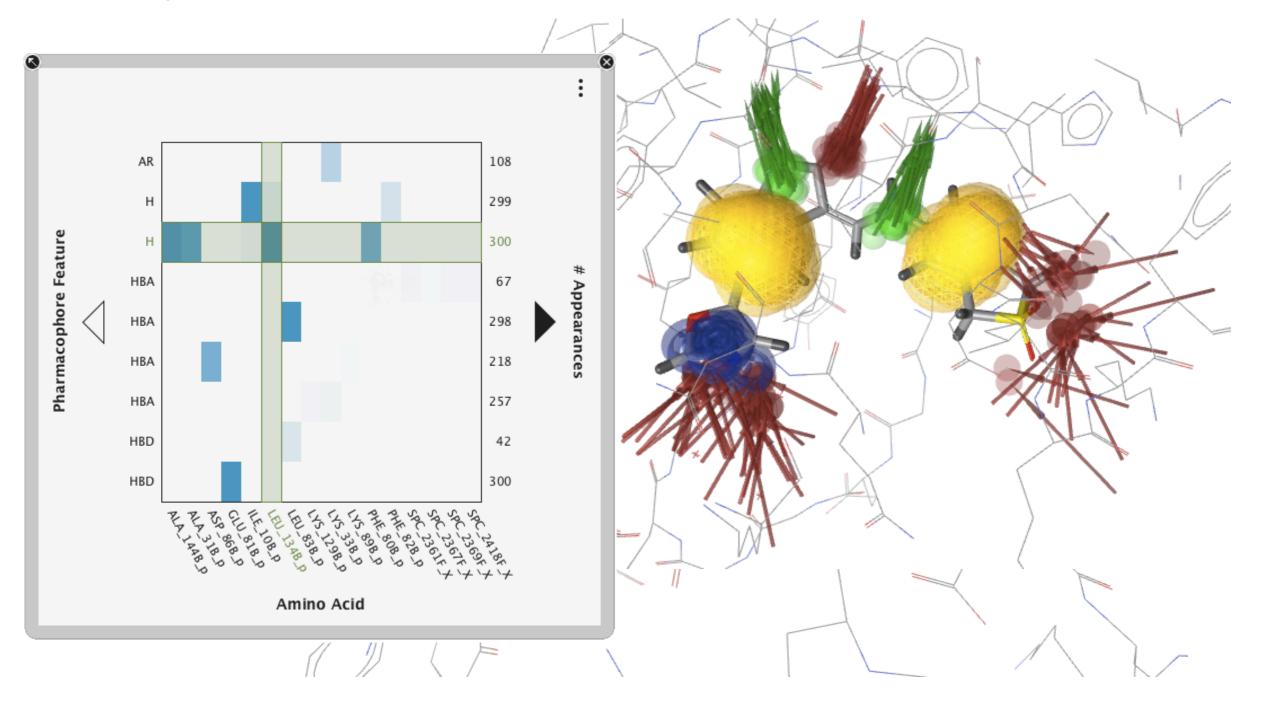


• Display pharmacophore interaction map





• Display pharmacophore interaction map





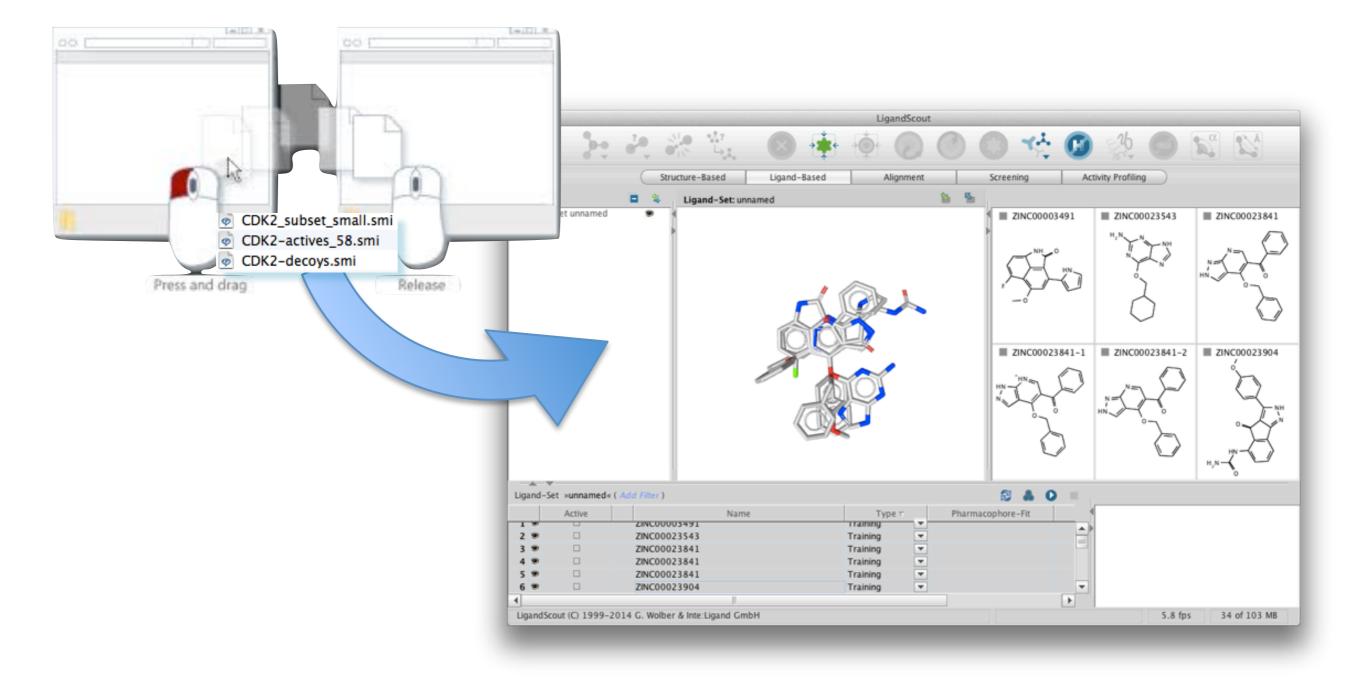
New Features in LigandScout 4.1

Usability Enhancement

- Drag & Drop
- Extended pharmacophore editing
- Extended table functionality & export
- Automatic background job queuing system



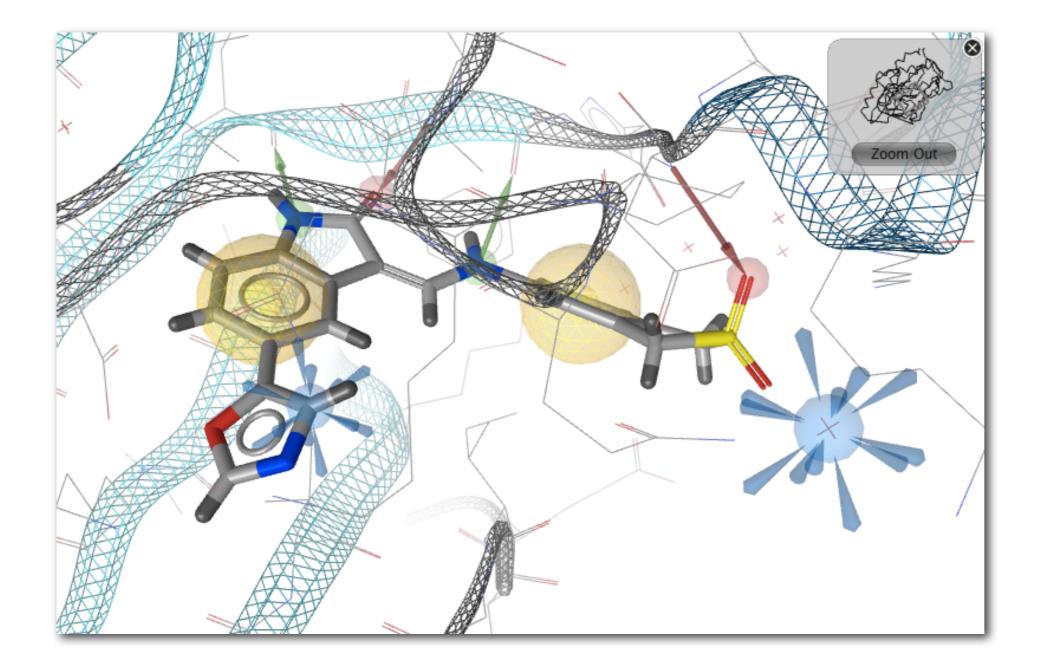
Drag & Drop Molecule Files into GUI





Extended Pharmacophore Editing

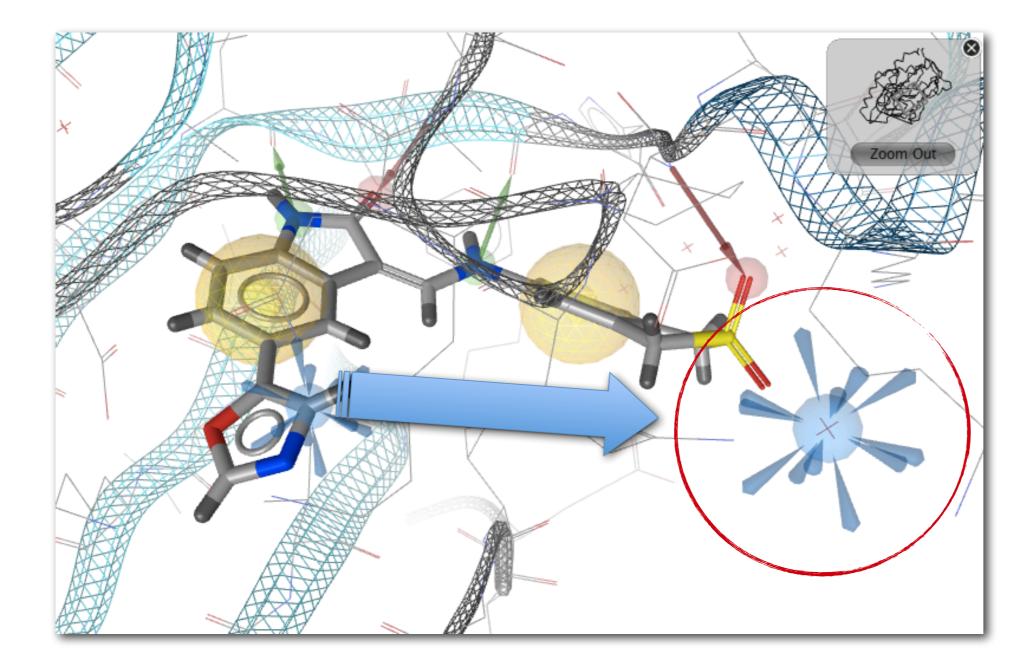
• Move pharmacophore features in 3D space





Extended Pharmacophore Editing

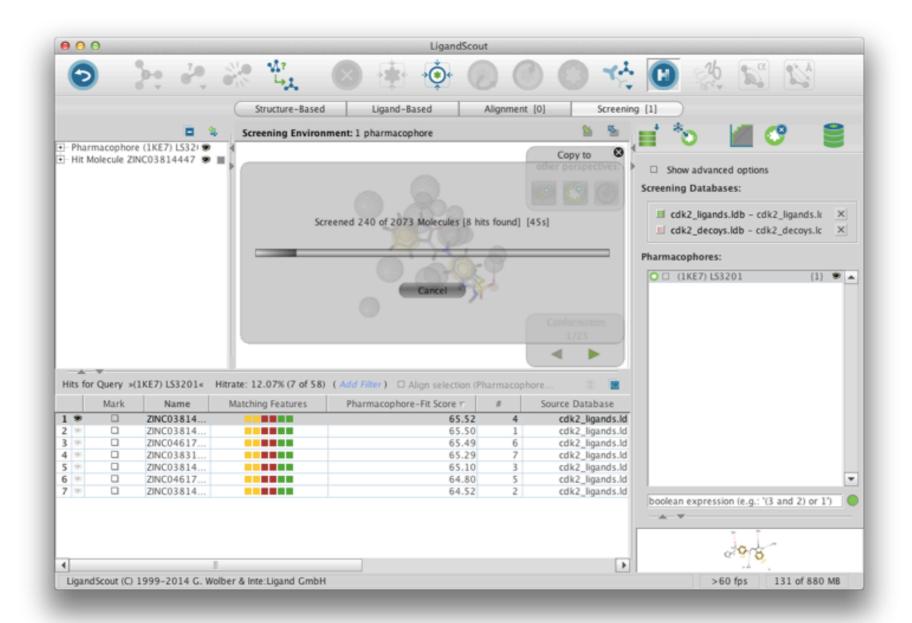
• Move pharmacophore features in 3D space





Background Job Queuing System

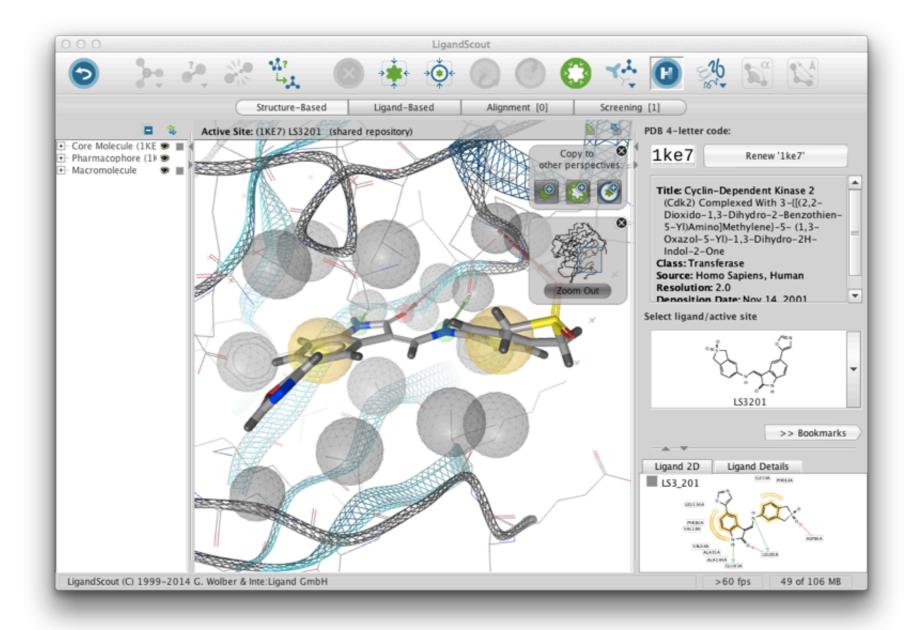
e.g. while screening in the GUI, continue modeling ...





Background Job Queuing System

e.g. while screening in the GUI, continue modeling ...





New Features in LigandScout 4.1

Usability Enhancement

- Drag & Drop
- Extended pharmacophore editing
- Extended table functionality & export
- Automatic background job queuing system

New Functionality

- New conformer generator in addition to OMEGA
- Apo protein binding site pharmacophore generation
- Integration into KNIME workflow environment
- Molecular dynamics trajectory pharmacophore analysis
- Docking with AutoDock 4.2 / AutoDock Vina

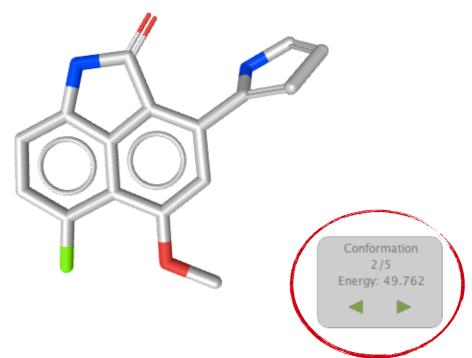


New Features in LigandScout 4.1

New conformer generator "iCon"

- Higher accuracy, better conversion rate
- Visualization of conformational energy values

| Conformer Genera | Conformer Generation Settings |
|------------------------|---|
| Preferred Conformer Ge | |
| iCon Settings | |
| Max. num. conformat | ions: 100 |
| Timeout [sec]: | 600 |
| RMS threshold: | 0.7 |
| Energy window: | 15.0 |
| Max. pool size: | 4000 |
| Max. fragment build t | time: 30 |
| Torsion driving | |
| 🗆 Include input | |
| Gen. coords from | ст |
| Enumerate rings | |
| 🗉 Enumerate nitroge | ns |
| □ Skip molecules wit | h existing conformations |
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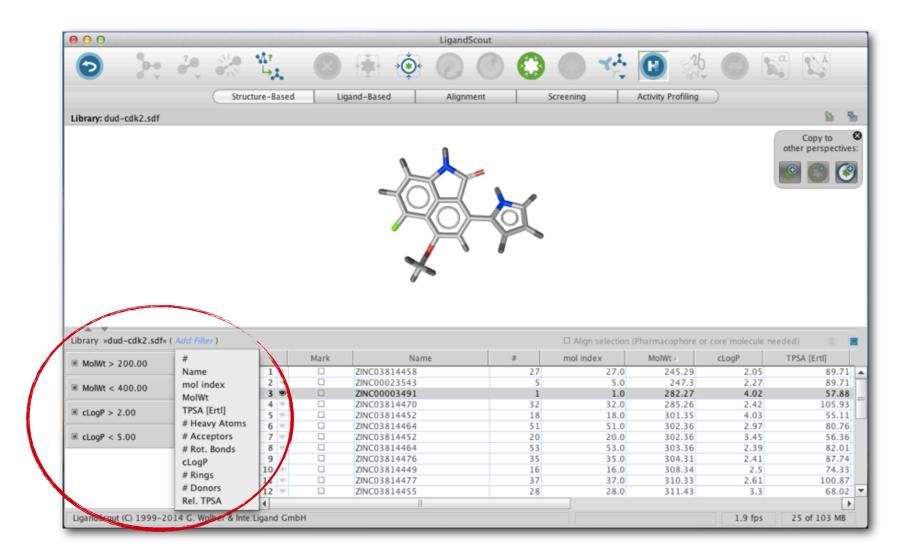




Extensive Table Management

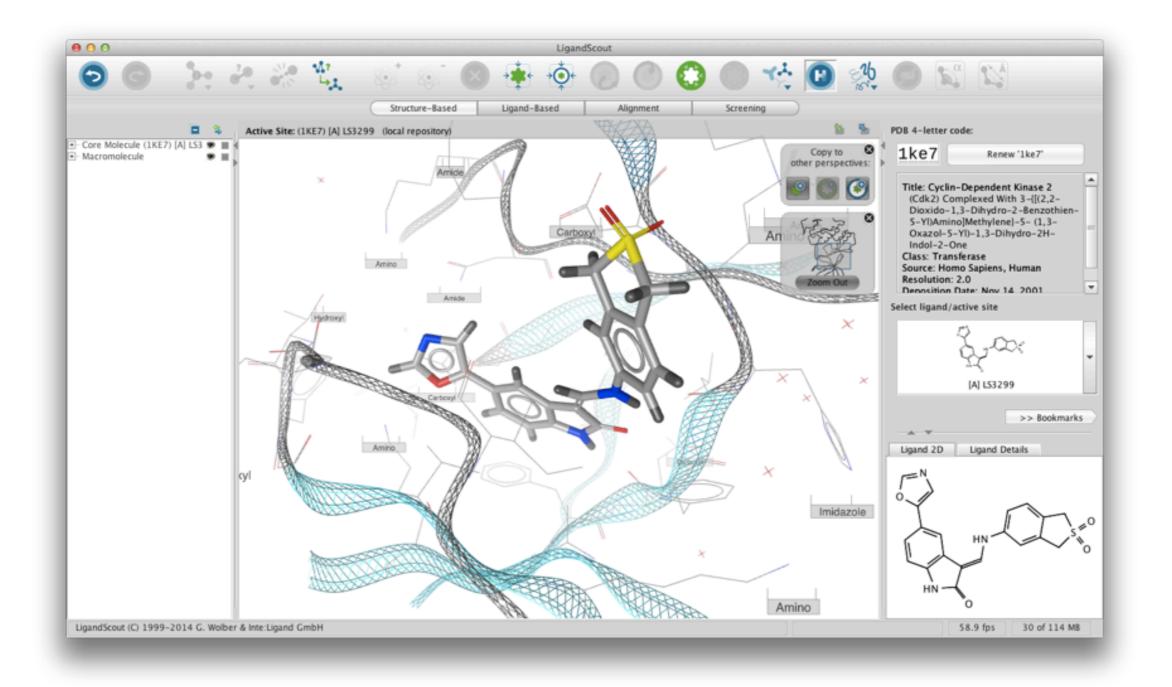
New: Relational database behind each table

allows rapid filtering and selecting of data subsets



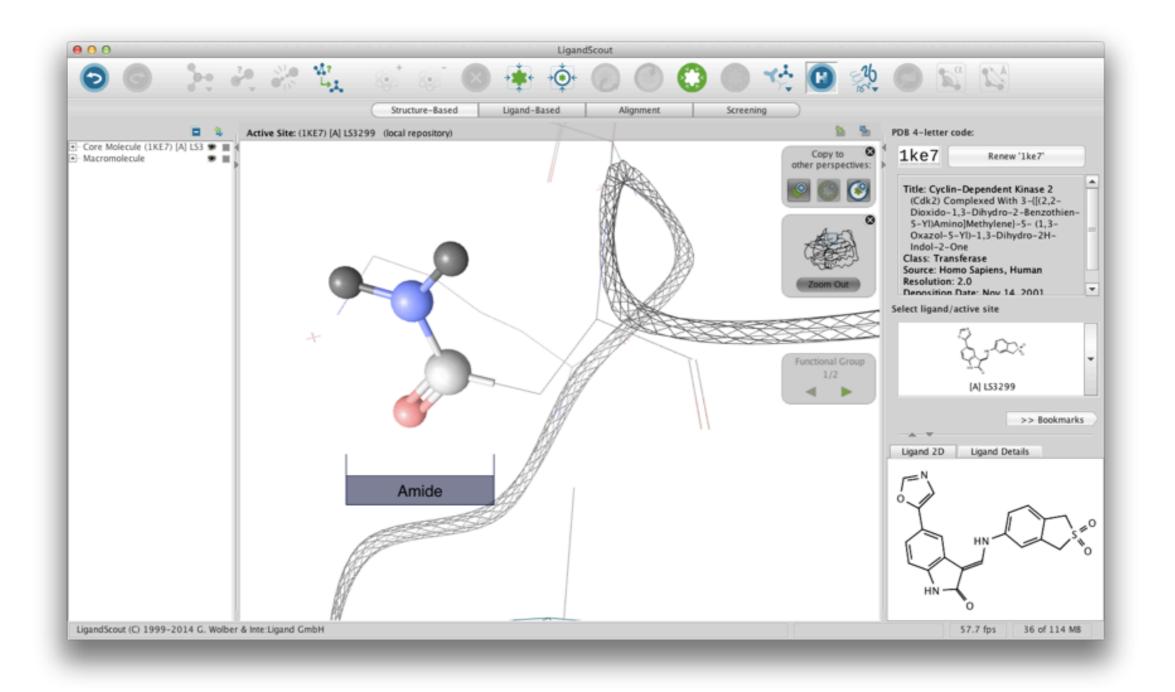


Binding Site Amino Acid Analysis & Editing



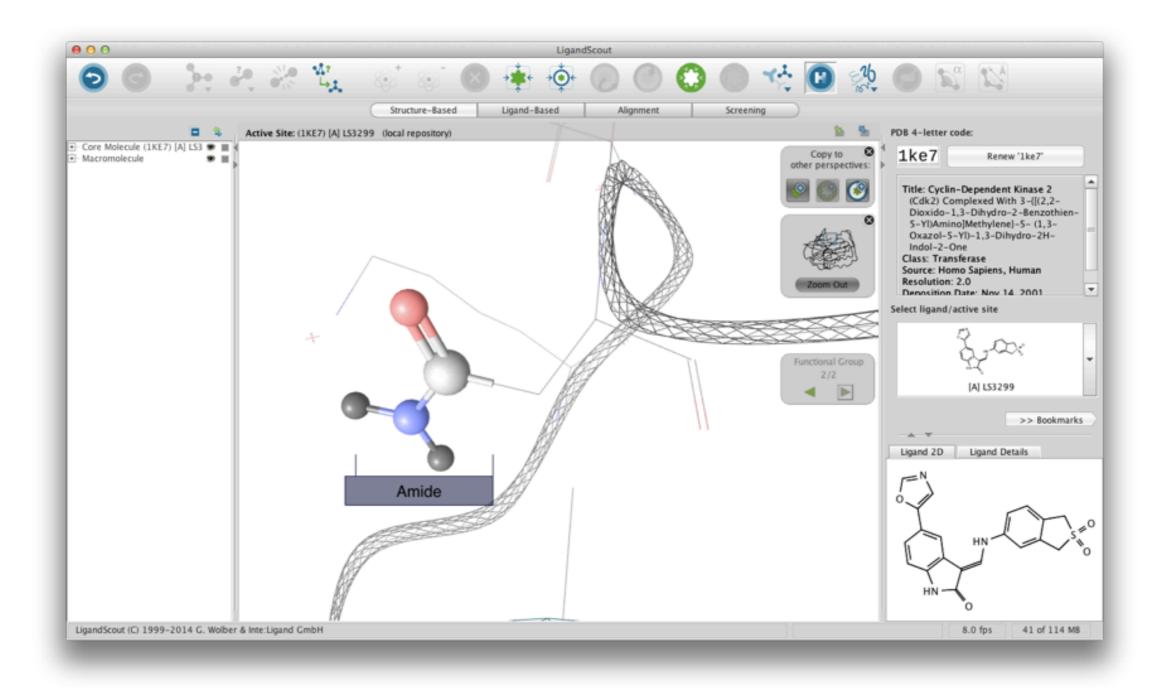


Binding Site Amino Acid Analysis & Editing





Binding Site Amino Acid Analysis & Editing





Create Pharmacophores from Apo Protein Site

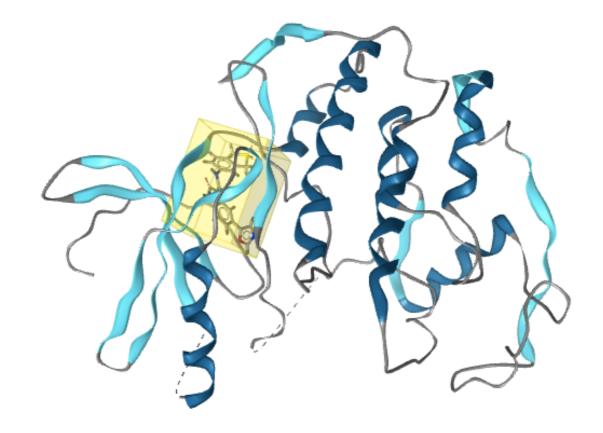
Intuitive modeling of pharmacophores in empty binding sites (e.g in apo protein / allosteric sites)

- Detect protein pockets using the Pocket Finder
- Calculate a grid-based ligand accessible surface
- Calculate interaction feature probabilities
- Create automatically customized apo-site model
- User can add pharmacophore features on surface points



Explore Empty Protein Sites

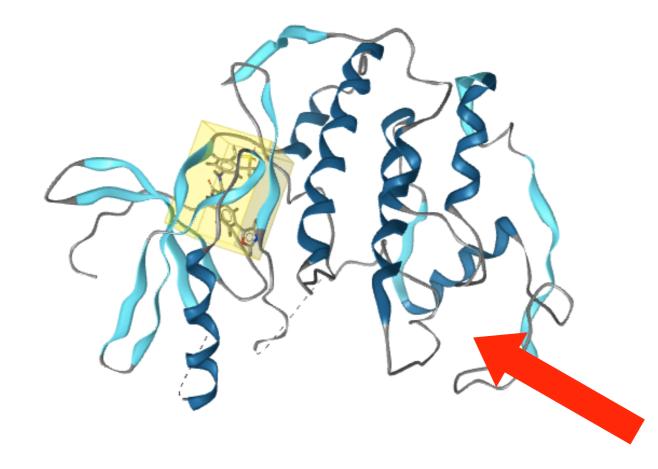
• Create binding sites wherever you want or use the new pocket finder





Explore Empty Protein Sites

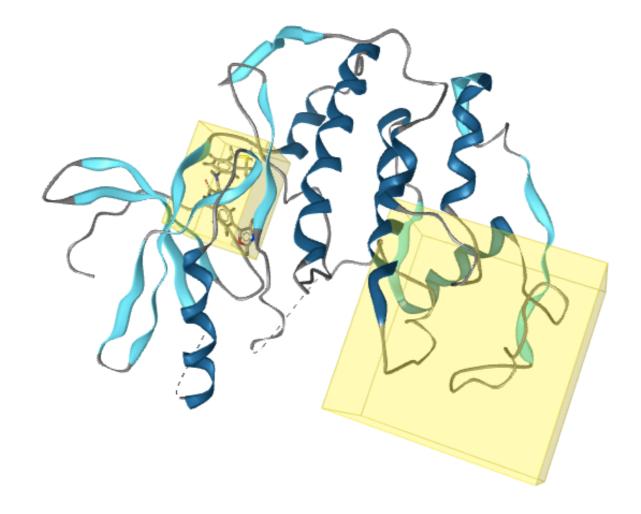
• Create binding sites wherever you want or use the new pocket finder



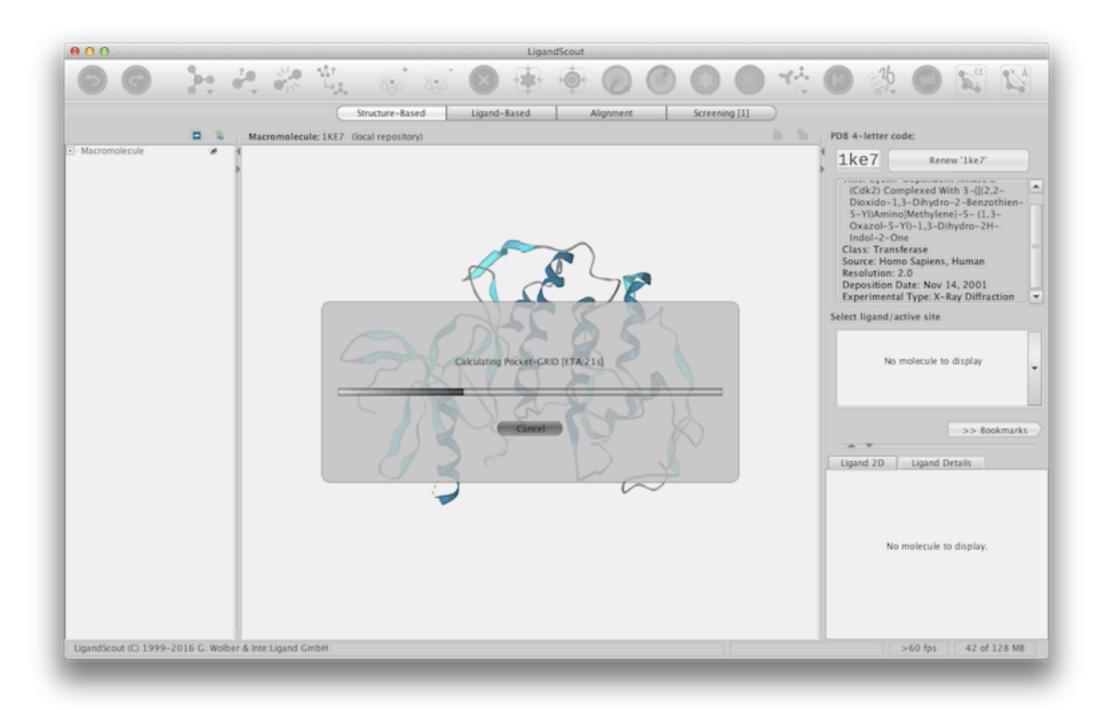


Explore Empty Protein Sites

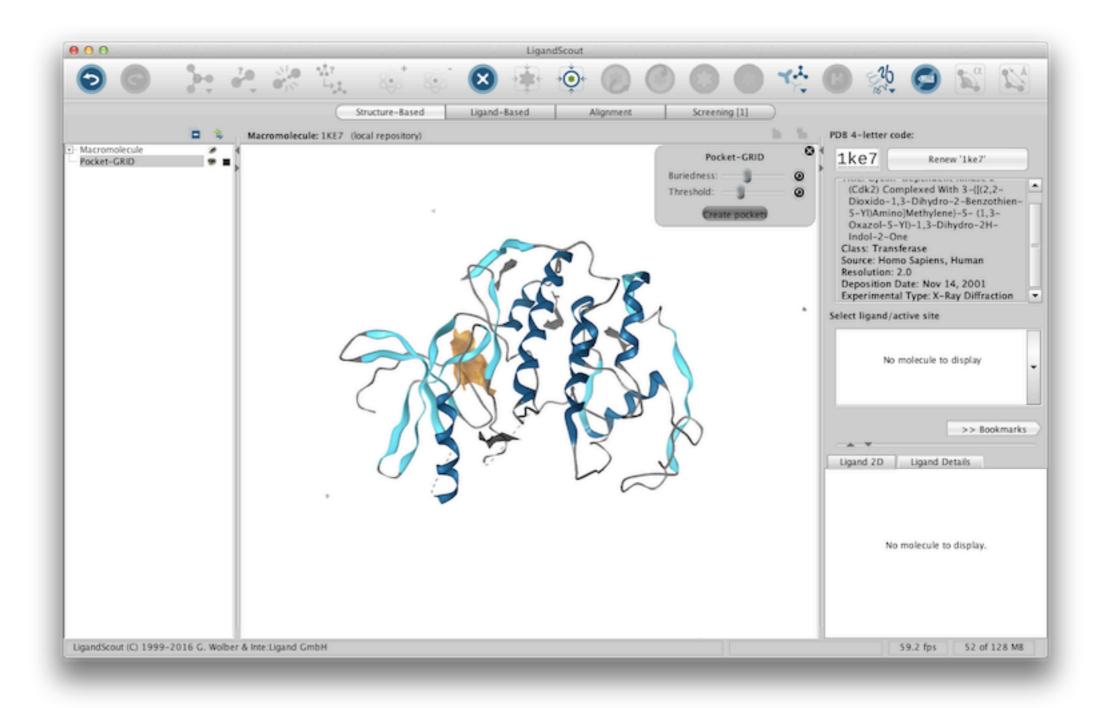
• Create binding sites wherever you want or use the new pocket finder



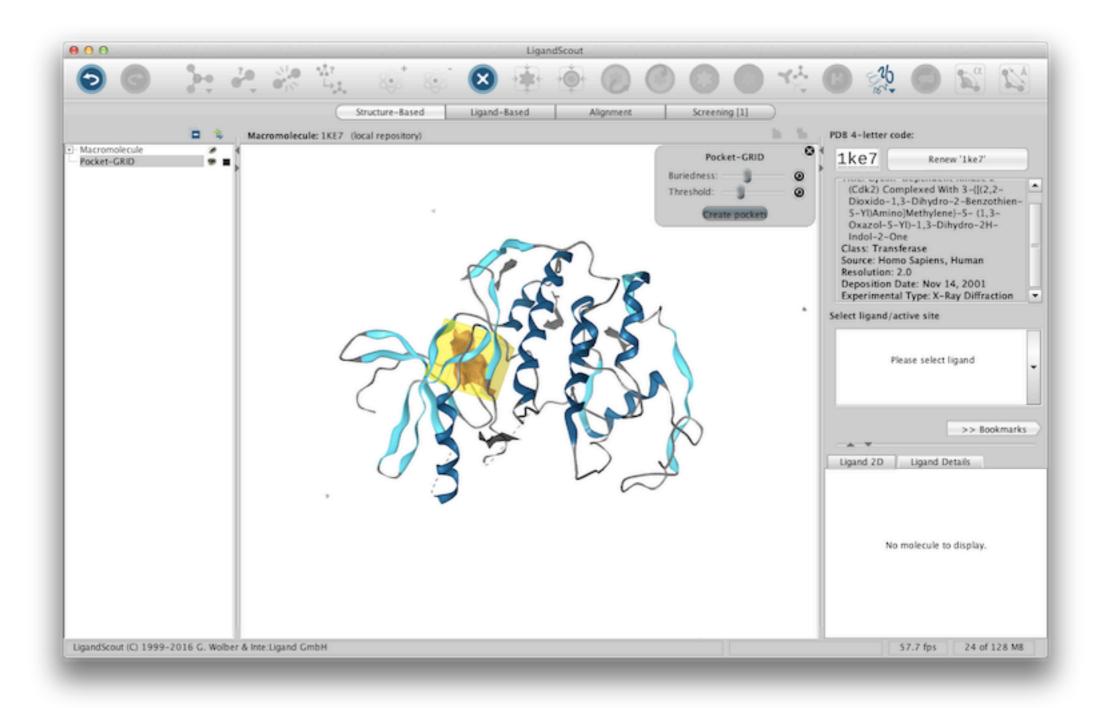




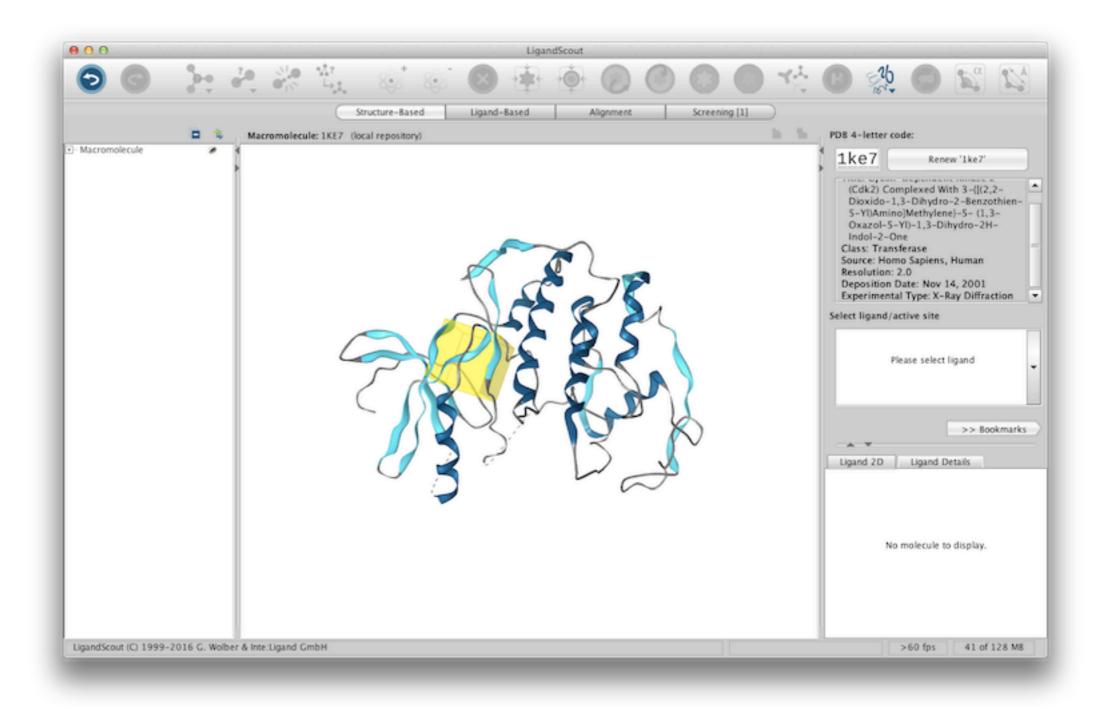






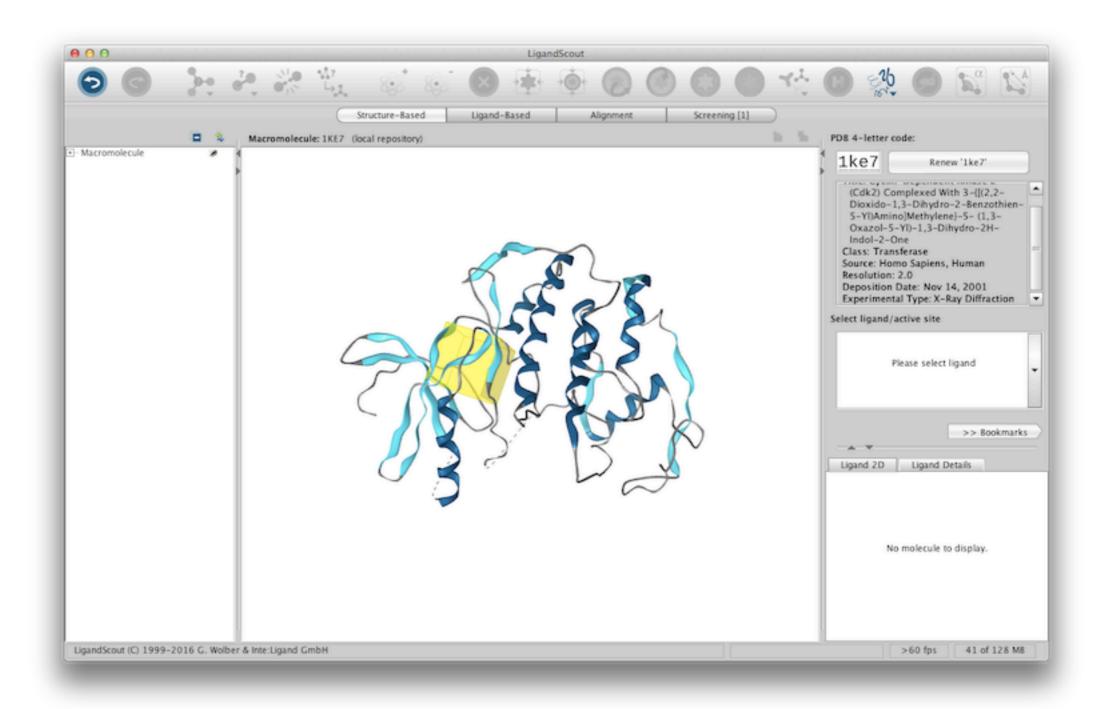






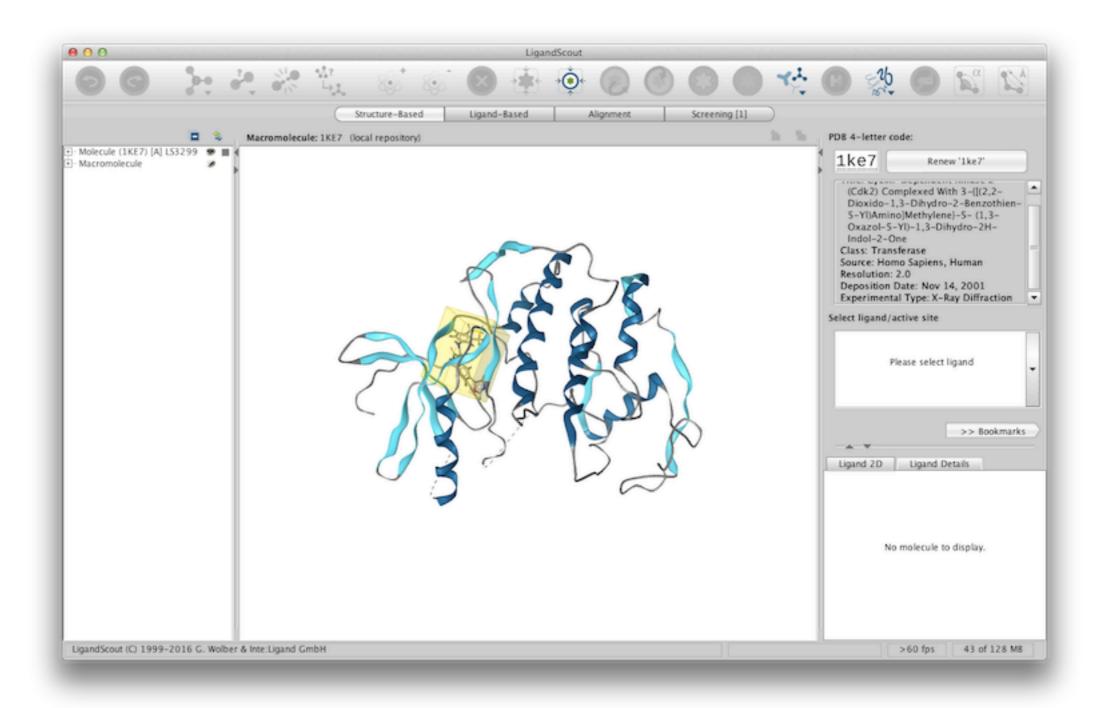


Comparison with Original Ligand Position

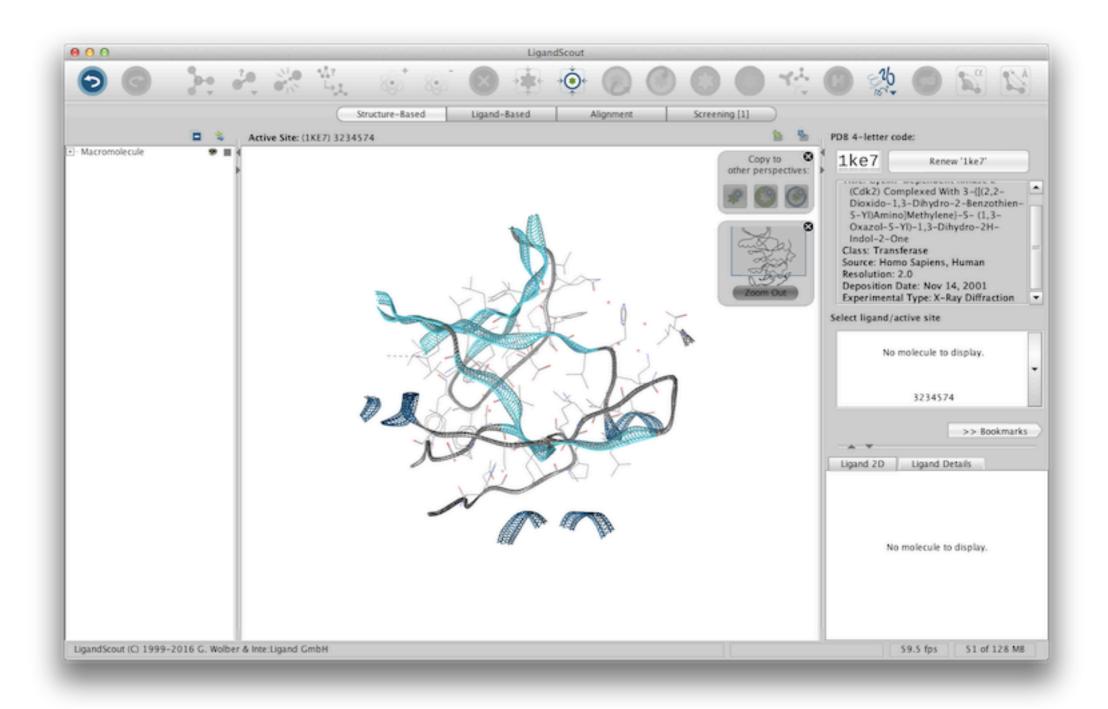




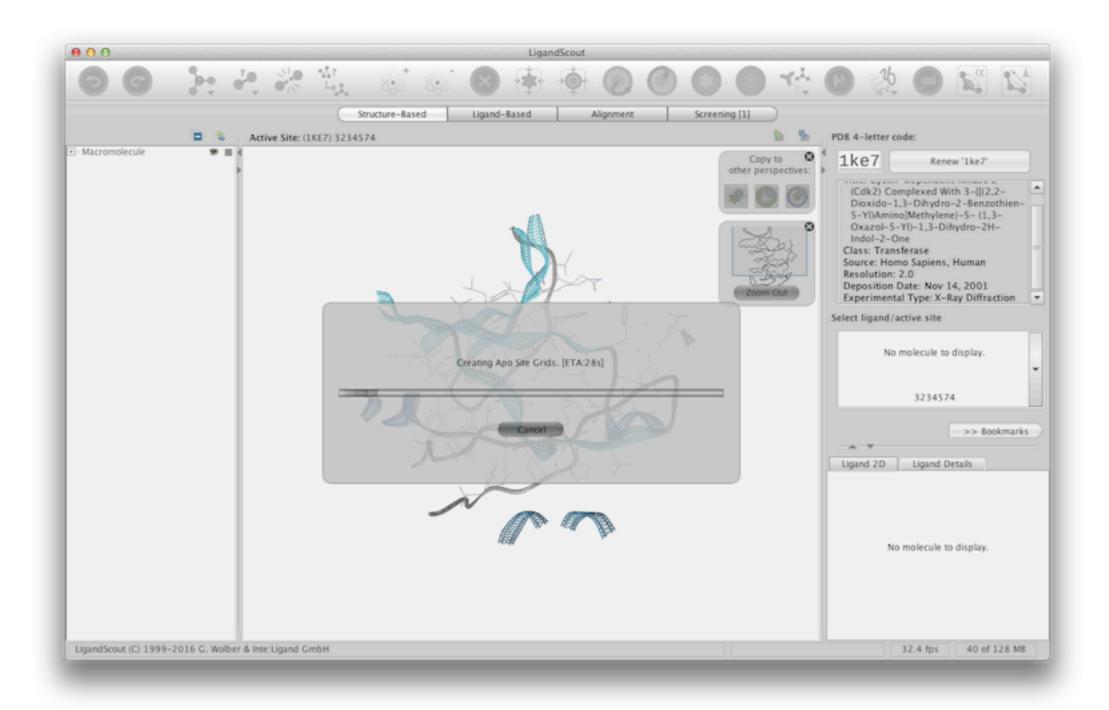
Comparison with Original Ligand Position



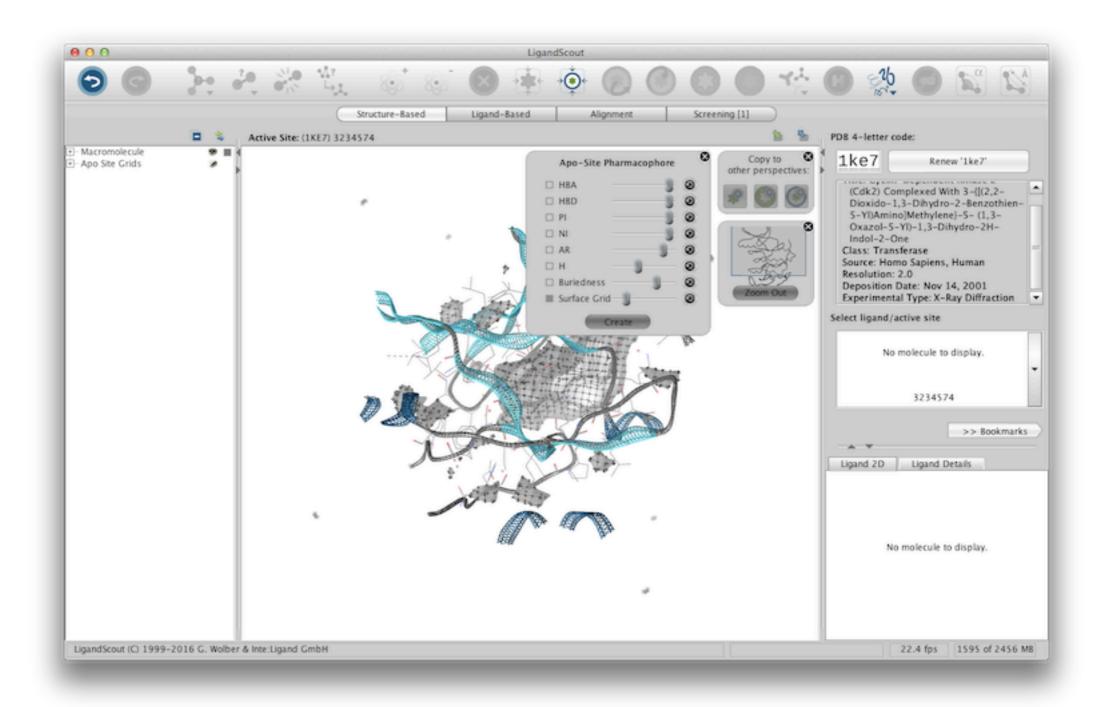




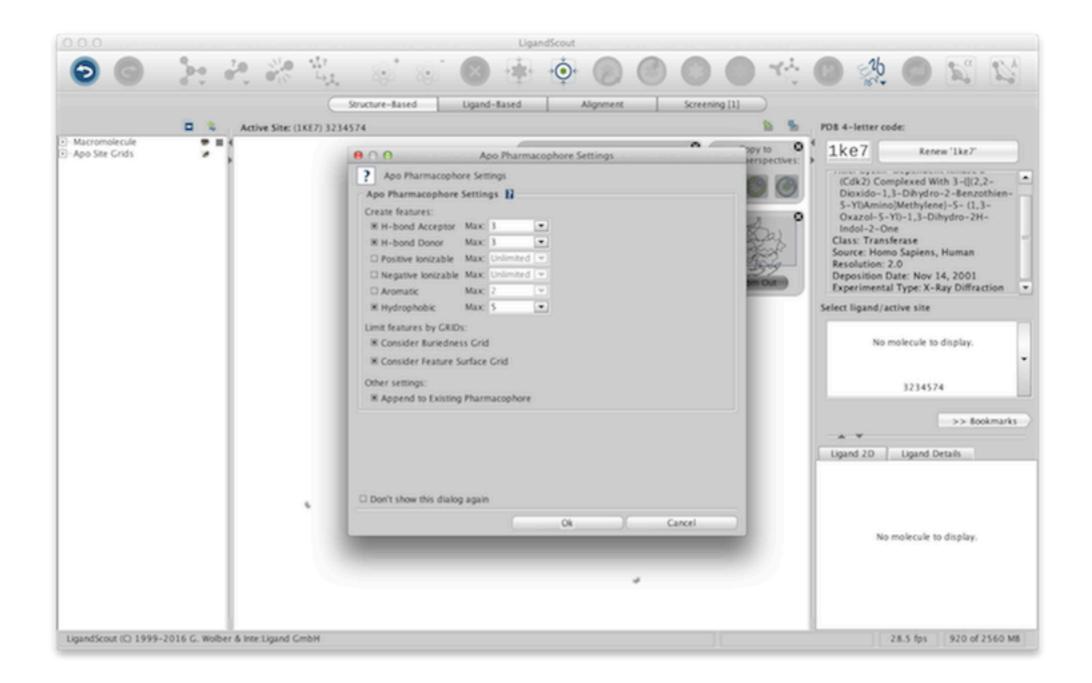




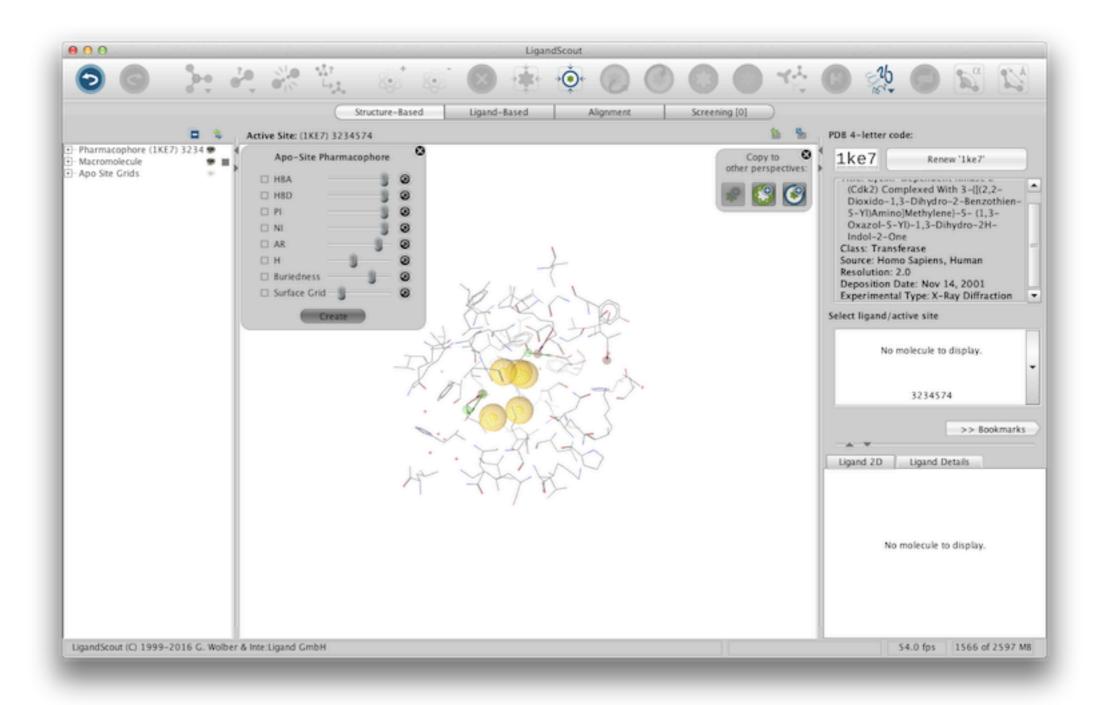






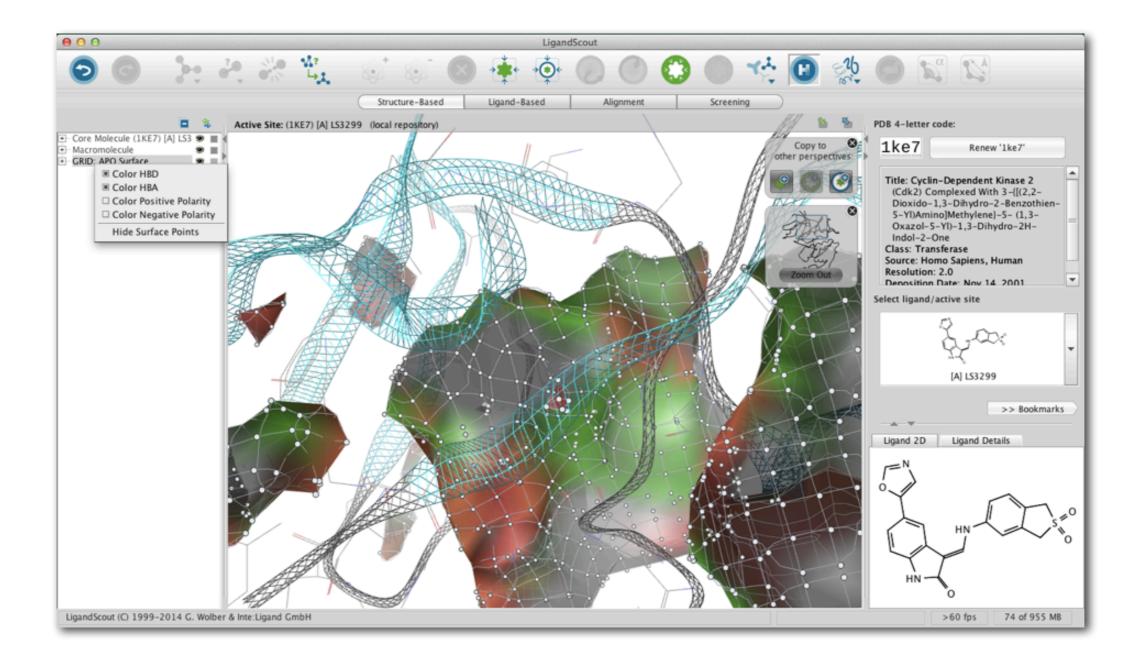






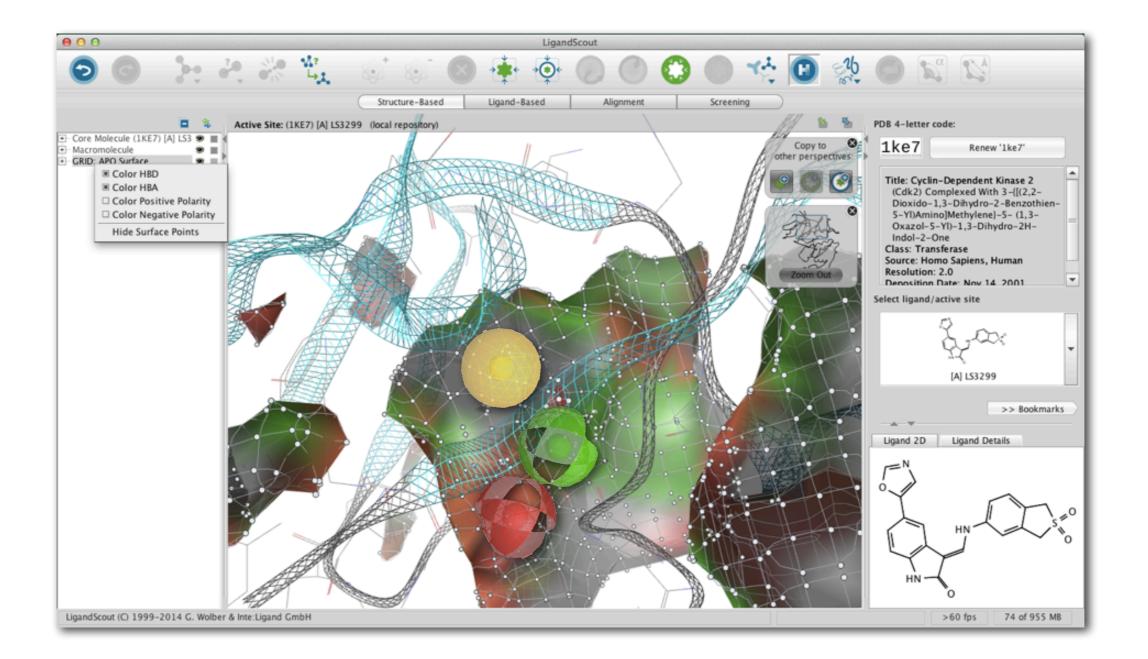


Manual Apo Site Pharmacophore Building



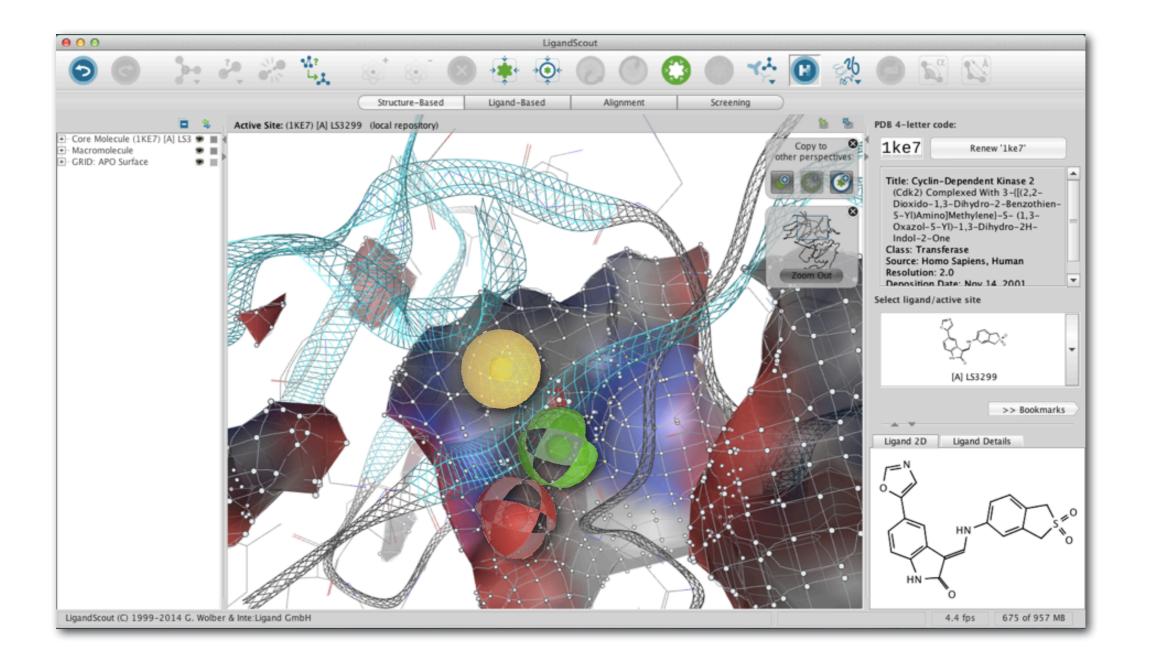


Manual Apo Site Pharmacophore Building



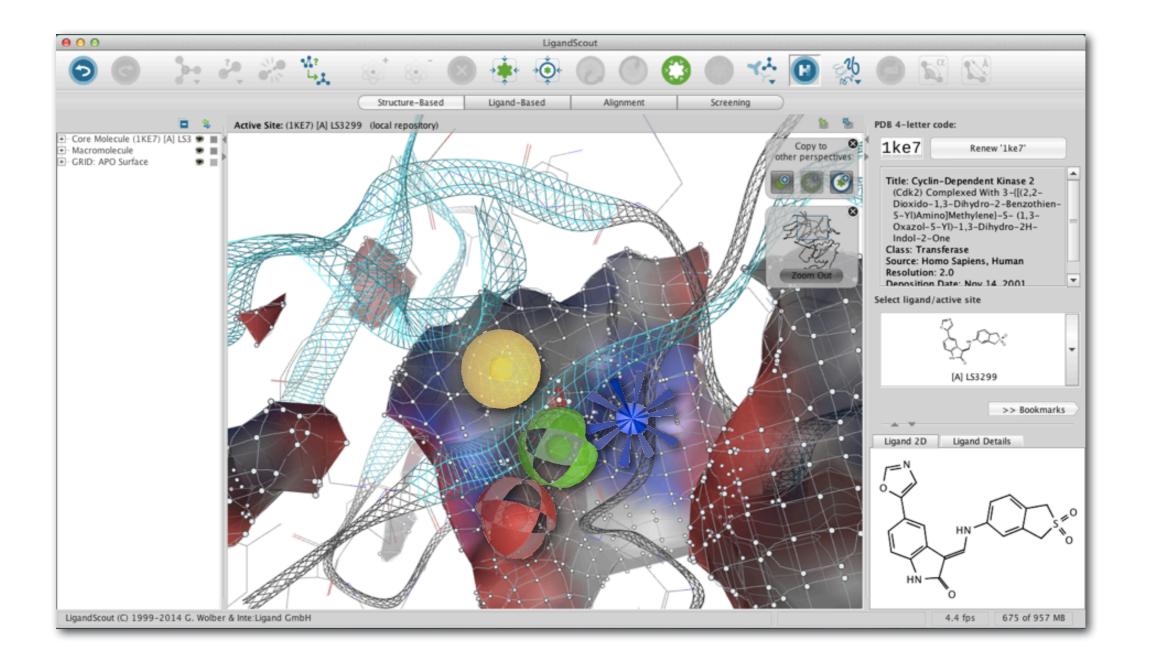


Manual Apo Site Pharmacophore Building





Manual Apo Site Pharmacophore Building





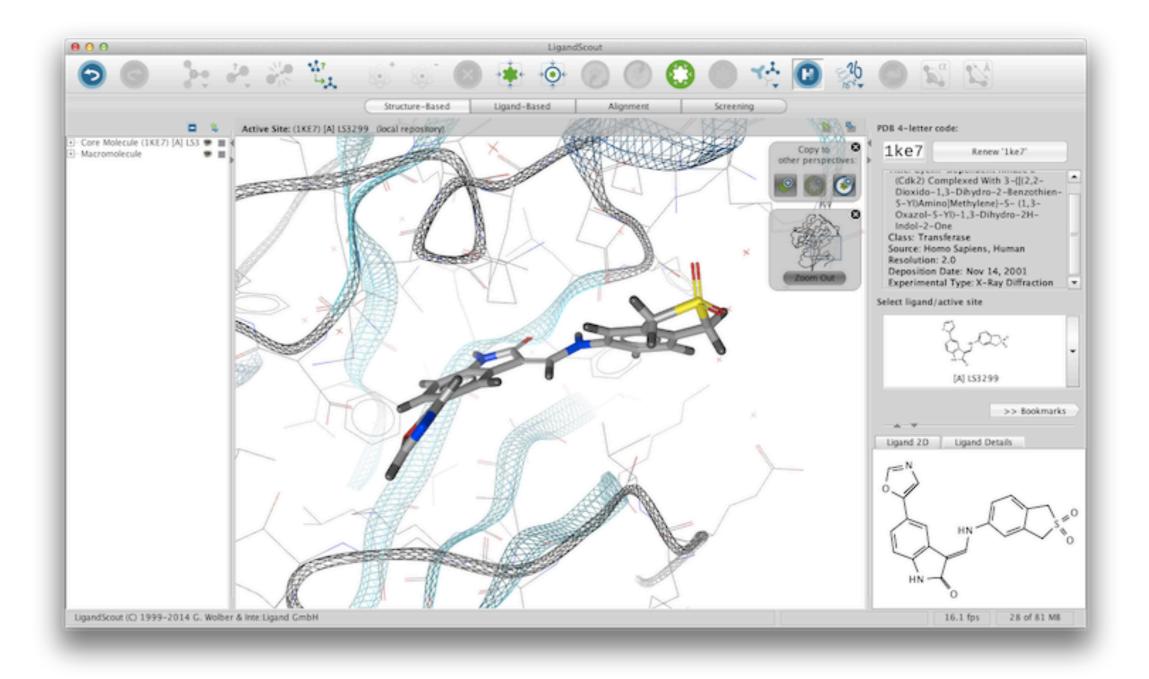
Integration: High Quality Docking & Pharmacophores

- Interactive docking in active site viewer
- Analyze and filter the results in flexible table view
- Re-score interactively using pharmacophores
- Estimate binding enthalpies using MMFF94s
- Estimate free energy of binding using new scoring function

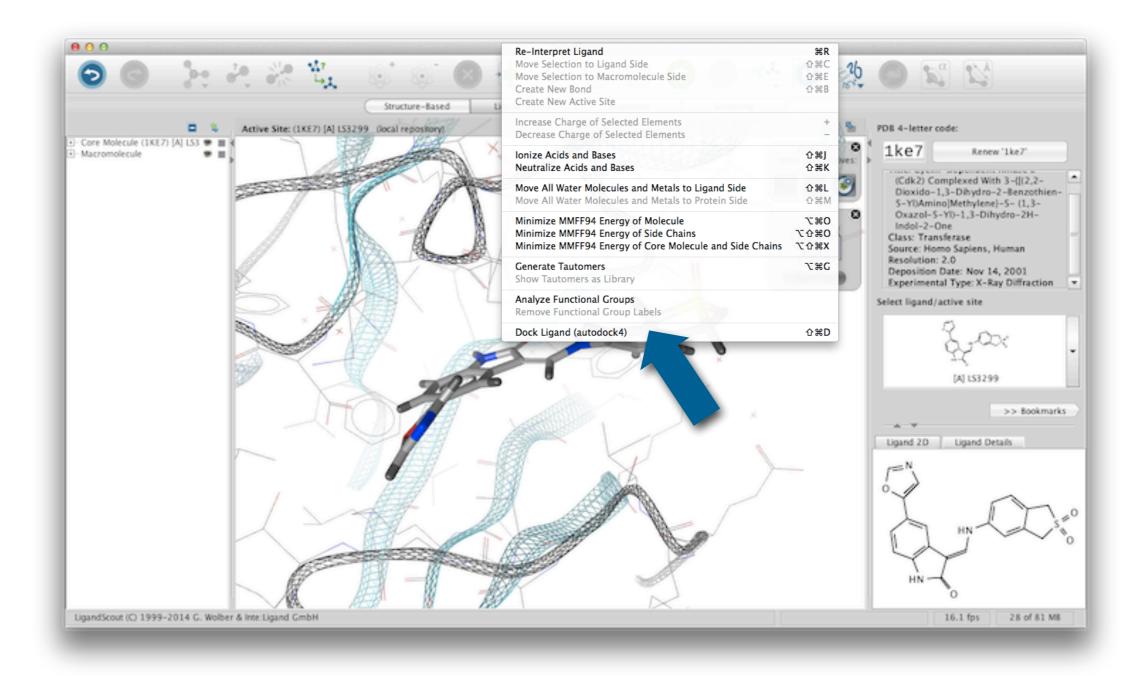
Makes docking user friendly and understandable

• Seamless workflows in most user friendly interface

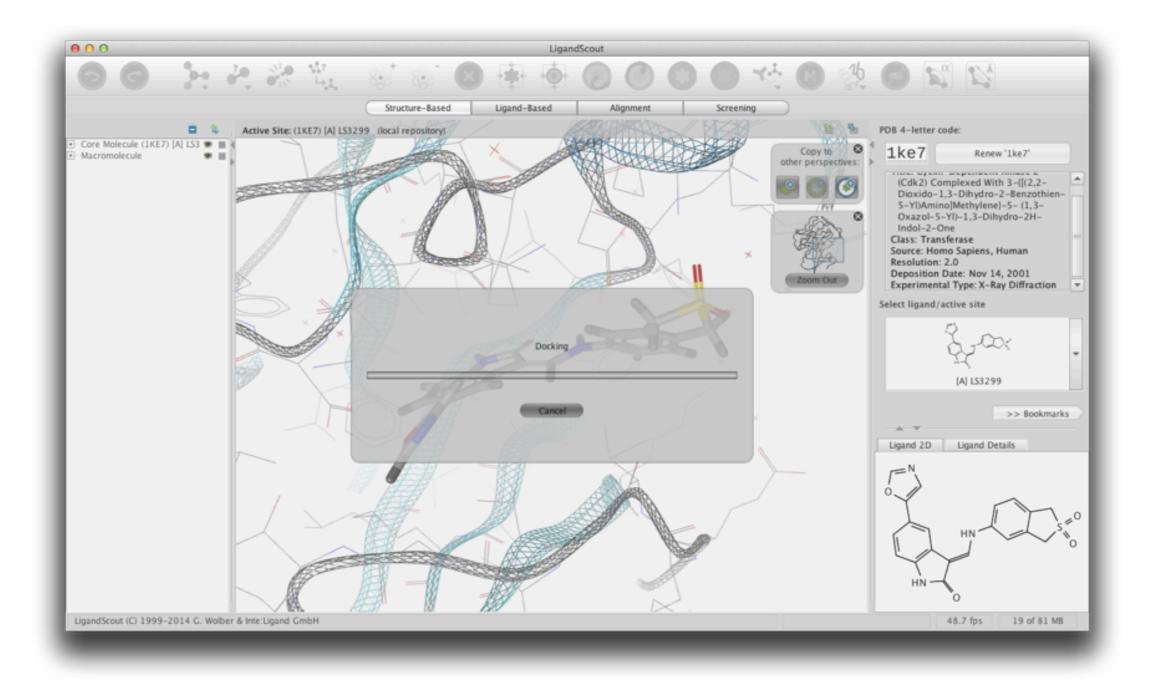




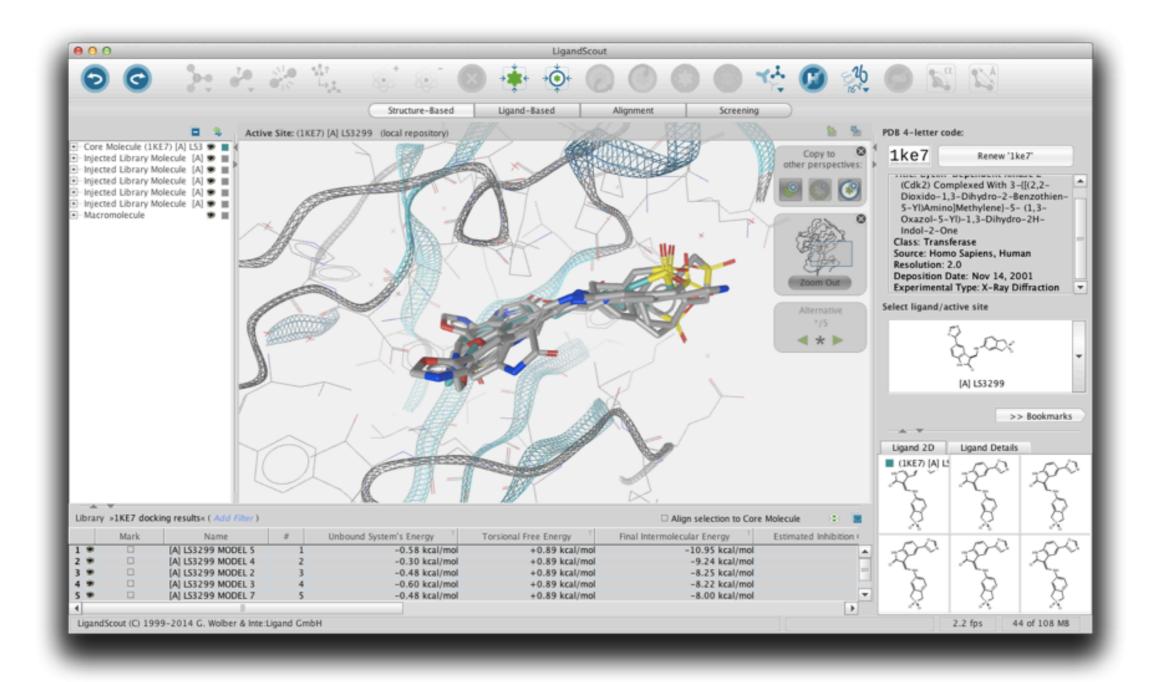














Reading Molecular Dynamics Trajectories

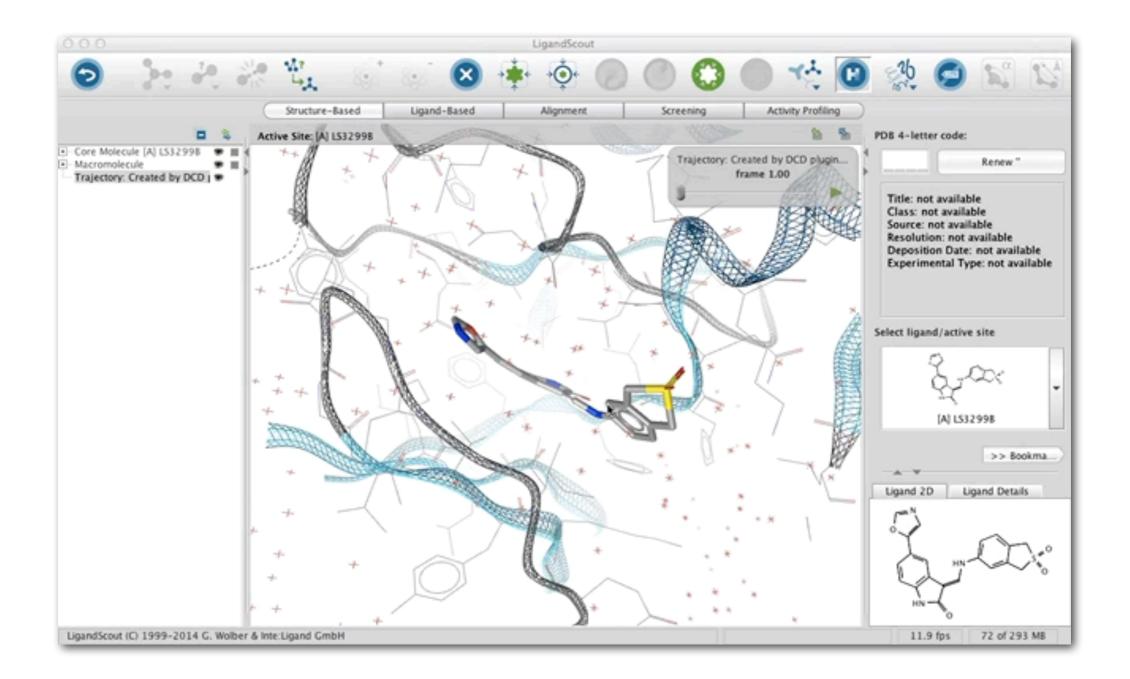
Integration of MD into the Pharmacophore World

- Create multiple pharmacophore models directly from MD Analyze conformational behaviour of ligand/protein complex
- Analyze the formation of transient binding pockets
- Dock ligands into transient pockets

Makes MD trajectory analysis rapid and transparent

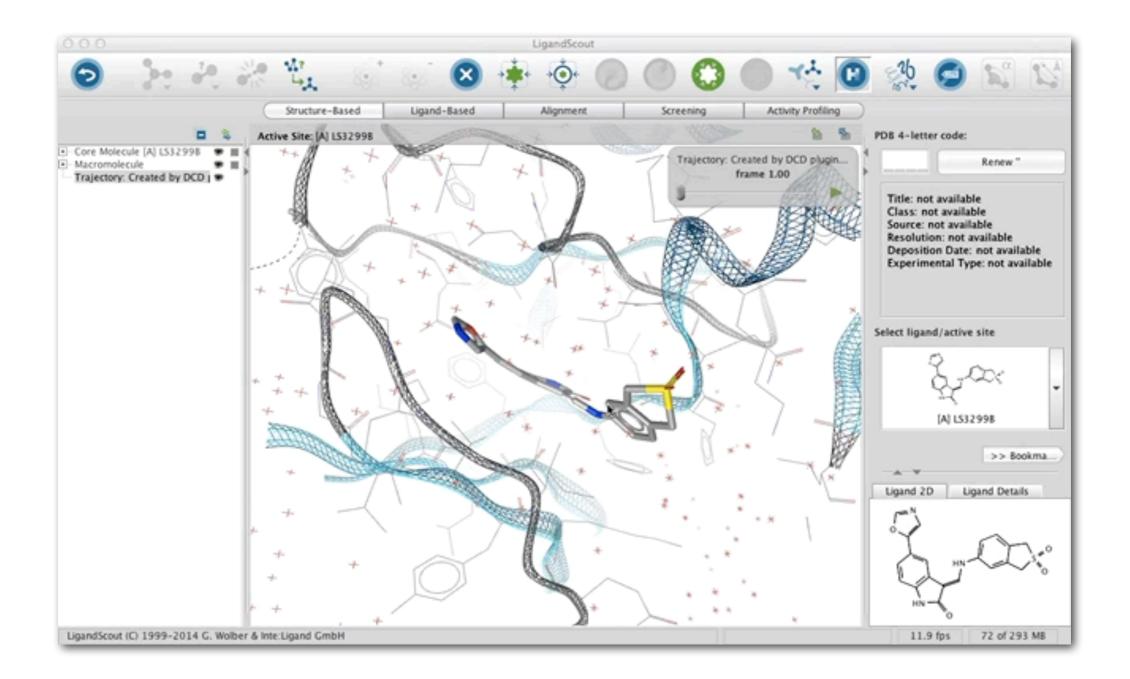


Analyzing MD within LigandScout





Analyzing MD within LigandScout





LigandScout KNIME Integration

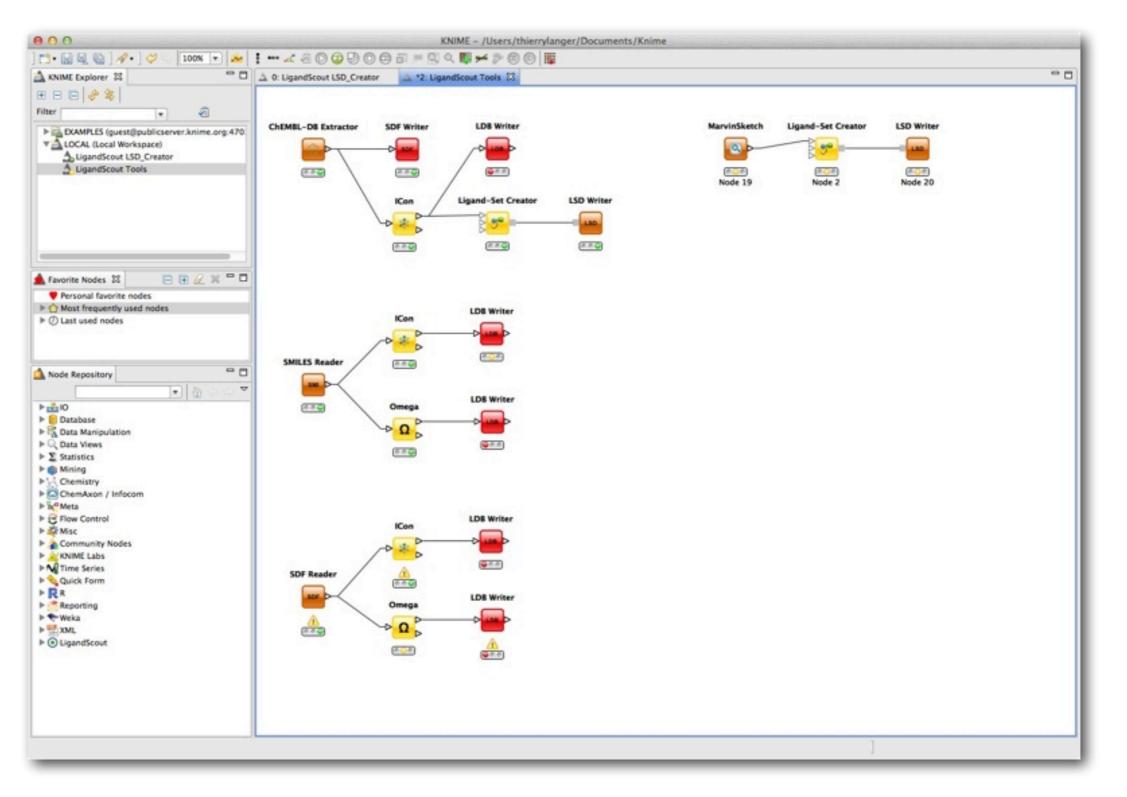
LigandScout functionality available in KNIME workflow

- Molecular structure data input and output
- Data set manipulation
- Conformational analysis
- LigandScout 3D database generation
- Query builder for ChEMBL online databank
- Patent searching in SureChEMBL
- Virtual screening & Activity profiling
- MD trajectory analysis using pharmacophores
- Access to Inte:Ligand's Pharmacophore Databases (license necessary)

Deploy easy-to-use workflows to co-workers



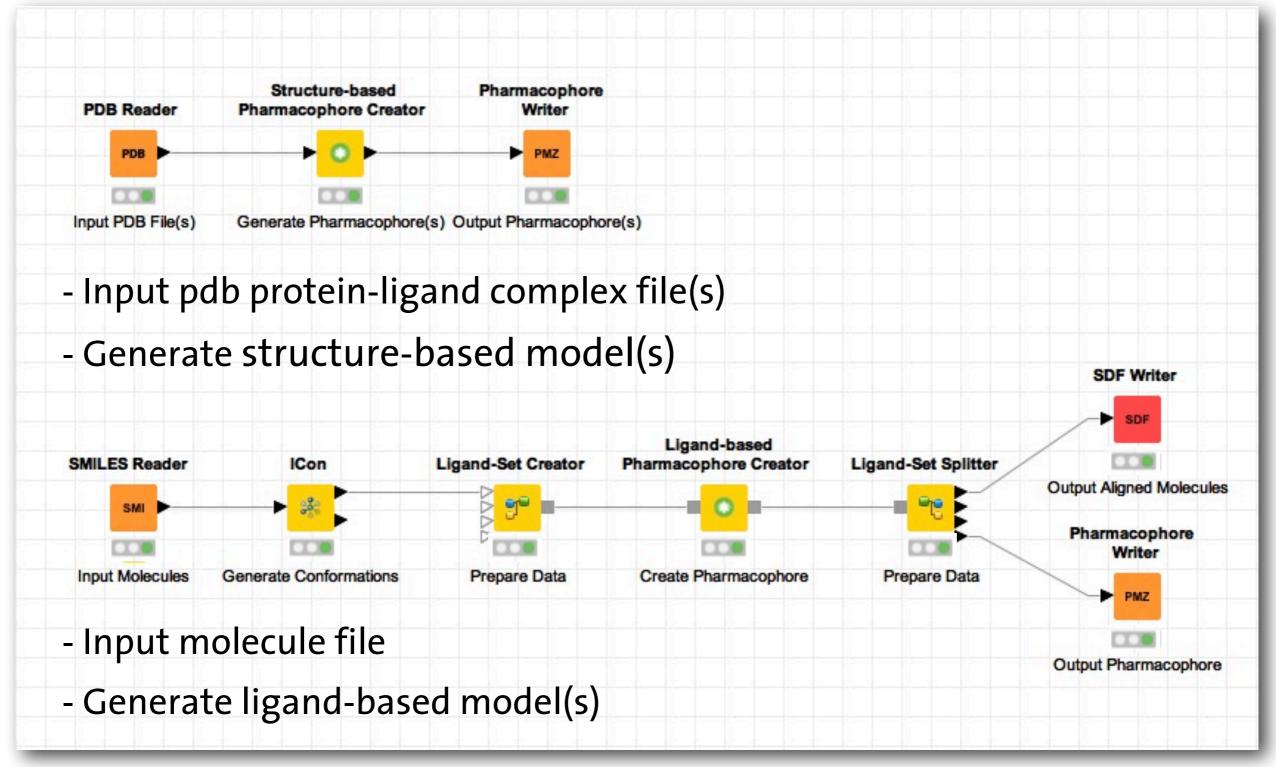
KNIME Workflows





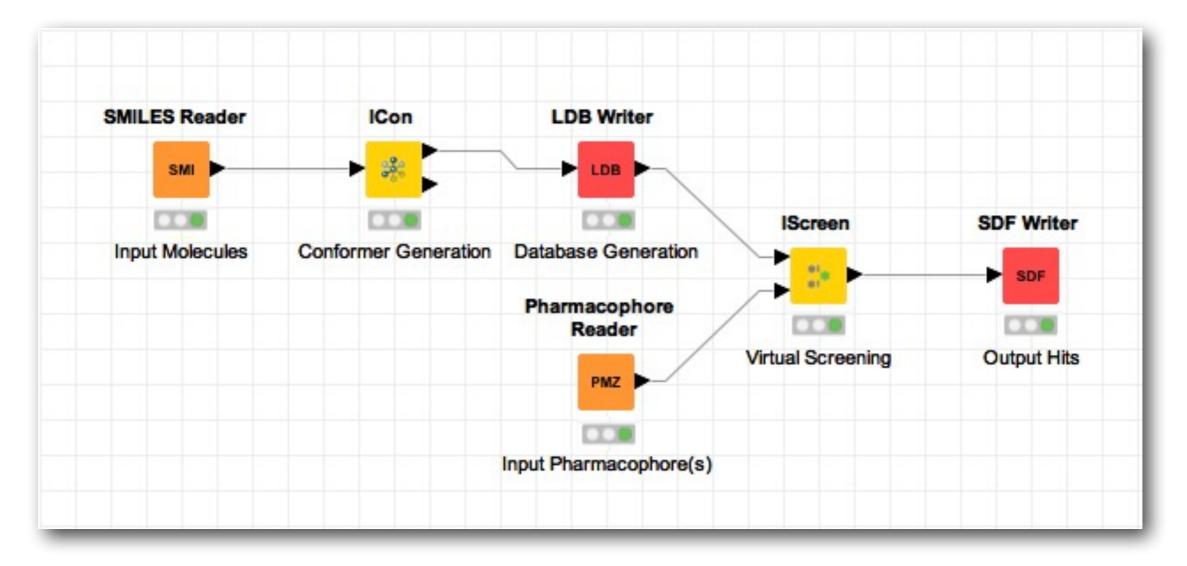


Batch Mode Pharmacophore Generation





LigandScout KNIME Extensions

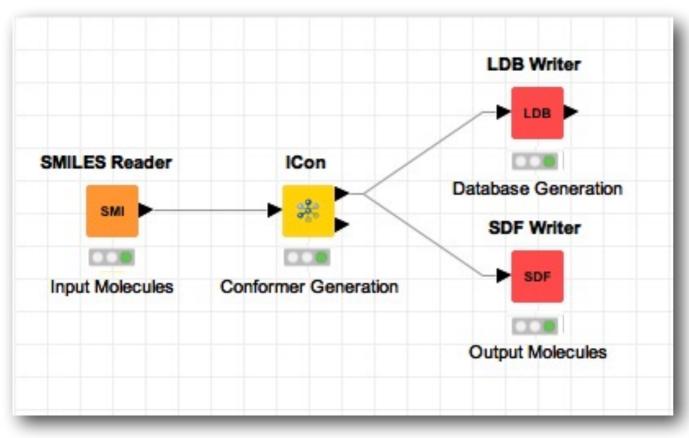


- Input molecule files (smiles/sdf/mol2)
- Screen with your favorite pharmacophore model(s)
- Retrieve ranked hits



Automated Conformational Analysis

Building of a 3D multiconformational database for VS

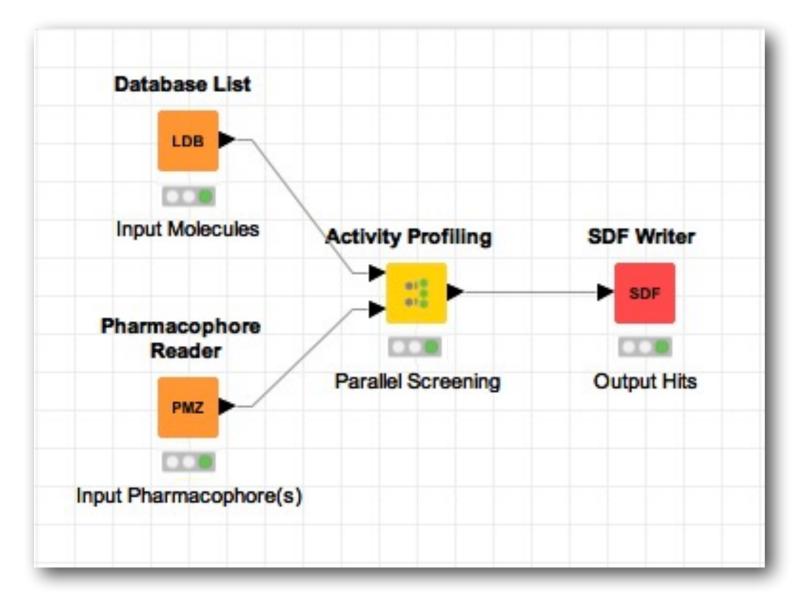


- Input molecule files (smiles/sdf/mol2)
- Retrieve LigandScout compound database or multiconf SDF



LigandScout KNIME Extensions

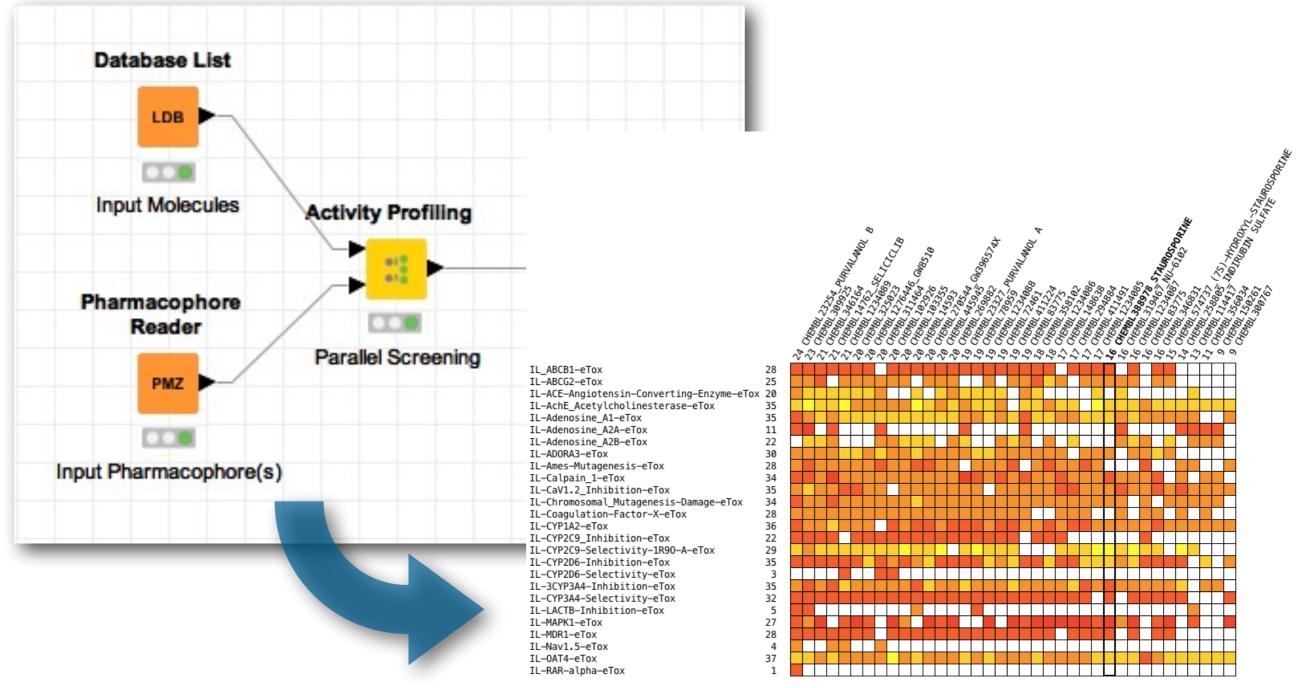
e.g. Automated Compound Activity Profiling





LigandScout KNIME Extensions

e.g. Automated Compound Activity Profiling



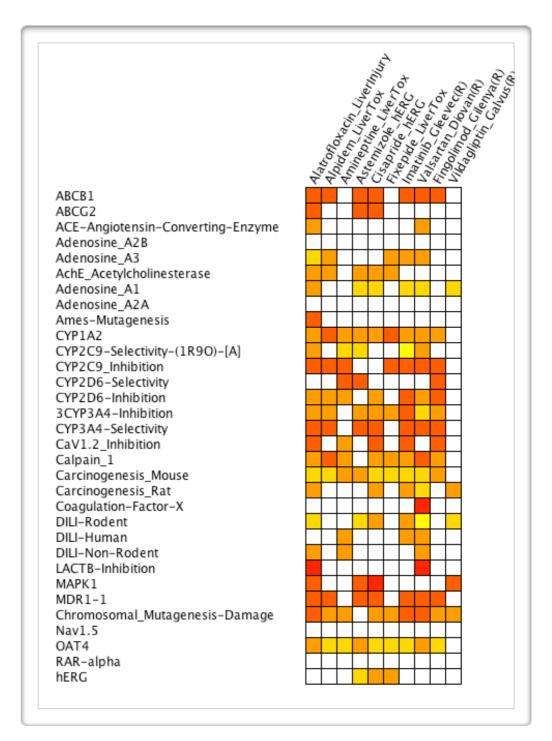
Pharmacophores: 26 Molecules: 37



Inte:Ligand's Toxicity Assessment Models

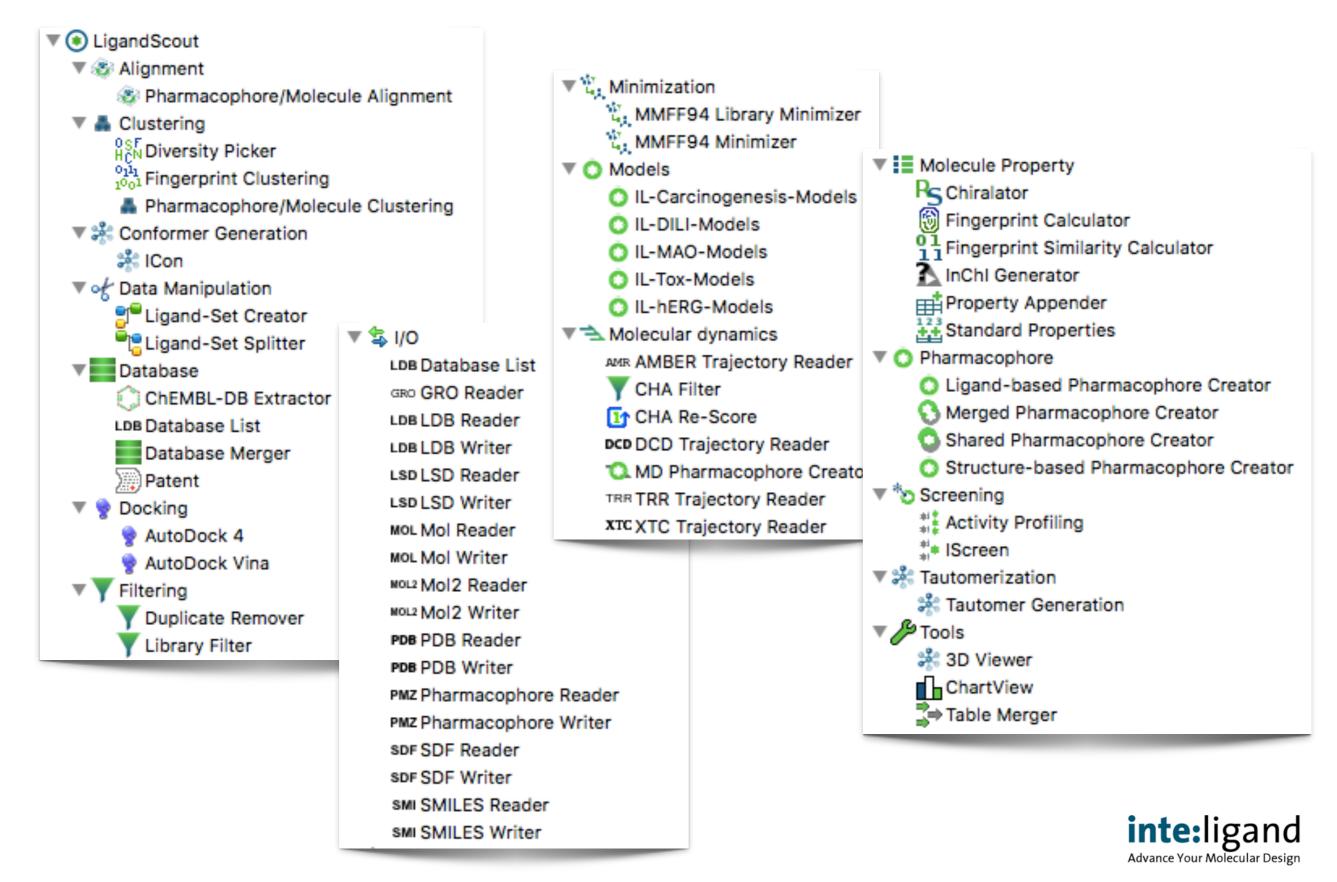
7 year collaborative EC Project on Toxicity Prediction

| | Executive Co | ommittee | _ |
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KNIME Nodes Available for ...



KNIME Tutorial Workflows



InteiLigand KNIME EXTENSION TUTORIAL CARD 3

e level: basic

d: 5 minutes

Calculate Physicochemical Properties and Filter a Database

Perform Virtual Screening ON TUTORIAL CARD 4

Experience level: intermediate Time needed: 15 minutes

InteiLigand KNIME EXTENSION TUTORIAL CARD 2 Create Ligand Based Pharmacophore Models

-



Creator

Experience level: intermediate Time needed: 15 minutes

Node Repository Sequence Read a SMILES file by using "SM Connect the output of "SMILES Conformer Generator" node PDB Reader Configure "Icon Conformer Gene Pharmacophore Connect the first port of "Icon C Ligand-based with the second input port of " Pharmacophore Clustering" node and execute it Connect the second output por "Pharmacophore/Molecule Clus port of "Ligand-based Pharmaci o Configure "Ligand-based Pharm selecting the "Treat cluster inc Connect "Ligand-based Pharma tophore Writer" node "pharma "Export all pharmacophores t Choose the folder in which sa execute the node

In the Node Repository panel, open the "I/O" drop do the "SMILES Reader" [1] node and drag and drop it into the SMILES Reader (1) note and drag and drap remained to prethe traffic light underneath the node, which was red right click on it and press "Execute" from the pop-up visit the Node Repository panel again and open the Look for the "Icon Conformer Generator" node and dri node (black triangle) with the input port of the "icon node and configure it. In the pop-up window, click o (F7). In the "Clustering" drop down menu select the connect the first output of the "Icon Conformer Gent "Pharmacophore" drop down menu, drag and drop 1 second output port of "Pharmacophore/Molecule Clu configure it selecting the "Treat cluster individually" the first output port of the "Ligand-based Pharmacop pharmacophores to a single file" and choose a nam Press OK and execute the node (F7). [4] The program the pharmacophore model(s) you have generated.

Where to go from here:

- Screening database(s) against pharmacophore Use generated pharmacophores for Activity Pre



Inteiligand KNIME EXTENSION TUTORIAL CARD 1

Create Structure Based Pharmacophore Models

Experience level: basic Time needed: 10 minutes

Advanced controls (opt.)

Sequence Node Repository Read a PDB file by using "PDB Reader" node Connect the output of "PDB Reader" node with 01/0 "Structure-based Pharmacophore Creator" node PDB Reader o Configure "Structure-based Pharmacophore Creator" Pharmacophore Writer Pharmacophore node and execute it Connect "Structure-based Pharmacophore Creator" Structure-based node with "Pharmacophore Writer" node Pharmacophore Creato Configure "Pharmacophore Writer" node selecting "Export all pharmacophores to a single file" Choose the folder in which save my_model.pmz, then execute the node

Prepare batch mode processing: Configure "PDB Reader" node to read multiple PDB files at the same time Modify pharmacophore creation parameters Configure "Structure-based Pharmacophore Creator" node to add the exclusion volume coat to the model Explore the options of the "Pharmacophore Writer" node (e.g. pharmacophore models saved as separate files)

In the Node Repository panel, open the "I/O" drop down menu in the LigandScout section to see all the Input/Output nodes. Look for the "PDB Reader" [1] node and drag and drop it into the workspace. Configure the "PDB Reader" node by using a left double click or by the rub response [1] hour and using and using it into the workspace. Compare the Pub Reader hour by using a rest double click or by pressing F6. [2] A pop-up window for configuration will appear and you enter the path to the PDB file you want to load. Press the "Add" button. You can add multiple PDB files. After pressing OK, the traffic light underneath the node, which was red before, will turn to outton. You can add multiple PUB files. After pressing UK, the traffic light underneath the node, which was red before, will turn to yellow. Press F7 to execute the node (alternatively, you can right click on it and press "Execute" from the pop-up menu). The traffic light will turn green once the node has finished the task. Now, visit the Node Repository panel again and open the "Pharmacophore" drop down menu in the LigandScout drop down menu. Look for the "Structure-based Pharmacophore Creator" node and drag and drop it into the workspace. Connect the output port of the "PDB Reader" node (black triangle) with the input port of the "Structure-based Pharmacophore Creator" node (black triangle) [3]. Select the "Structure-based Pharmacophore Creator" node and configure it. In the popup window, select the minimum number of features necessary or creating the model (3) and the set the flag for adding an exclusion volume coat. After pressing OK, execute the node as before (F7). Once the task is finished the traffic light underneath the "Structurebased Pharmacophore Creator" node will turn green. In the "I/O" drop down menu select the "Pharmacophore Writer" node and drag and drop it in the workspace, connect the output of the "Structure-based Pharmacophore Creator" node with it and start the configuration as before. In the pop-up windows select "Export all pharmacophores to a single file" and choose a name for the output (you can also browse for the folder). [4] Press OK and execute the node (F7). The program will save a file in the specified directory containing the

pharmacophore model(s) you have generated.

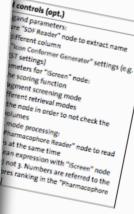
Where to go from here: Screening database(s) against pharmacophore model(s)

- Cluster pharmacophores



Advanced controls (opt.) sing "SDF Reader" node out of "SDF Reader" node with "Standard Calculate physicochemical properties: Configure "Standard Properties" node to compute different sets of properties erties" node and execute it operties" node with "Library Filter" node Modify filtering parameters ter" node and execute it Add other text and/or numeric filters in "Library Filter" node tput port of "Library Filter" node with Configure the "Library Filter" node output port of "Library Filter" node with adding multiple properties to your filter Explore all the filtering operators (equal, different, smaller than, greater than)

op down menu in the LigandScout section to see all the input/Output nodes. Look for o the workspace. Configure the node as showed in previous tutorial cards (by pressing e worspace. Compare the molecule properties" drop down menu in the fard Properties" node and drag and drop it into the workspace. Connect the output nt of the "Standard Properties" node. Select the "Standard Properties" node and configure mical properties you want to compute (these properties will be used in the next at once by pressing the corresponding "Select all" button. After pressing OK, execute elect the "Library Filter" node and drag and drop it in the workspace, connect the antinue with its configuration. In the pop-up windows, the "Library Filter" node string (pressing the "+abc" button)[1 red circle] or numeric property (pressing the in and a filtering row will appear. Configure the row by choosing "MolWt" in the n[2] until "c" symbol appears. Write then in the editable text box a value to use for he node will filter out molecules with molecular weight smaller than 400. Explore er" node and drag and drop two of them in the workspace. Connect them with pectively. The "SOF Writer" node connected to the first output port of the cular weight smaller than 400, while the one connected to the second output ater than 400. Configure the "SDF Writer" nodes choosing the name for the failed_molecules.sdf for the second). Execute them with F7.[4]



the workspace. Configure the the "Icon Conformer Generator" ort of the "SOF Reader" node ode. In the pop-up window, drop down menu ,select the mer Generator" node B file.[3] Execute and then down menu. Add the cophore model you want to ind input port of the ame for the output file. ules as a sdf file.



4

