

# Markush Editor History of Changes

## Markush Editor 18.8.0

### New Features and Improvements

- No new features

### Bugfixes

- Minor bugfixes.

## Markush Editor 18.7.0

### New Features and Improvements

- No new features

### Bugfixes

- Minor bugfixes.

## Markush Editor 18.6.0

### New Features and Improvements

- No new features

### Bugfixes

- Minor bugfixes.

## Markush Editor 18.5.0

### New Features and Improvements

- No new features

### Bugfixes

- Minor bugfixes.

## **Markush Editor 18.4.0**

### **New Features and Improvements**

- No new features

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 18.3.0**

### **New Features and Improvements**

- No new features

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 18.2.0**

### **New Features and Improvements**

- No new features

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 18.1.0**

### **New Features and Improvements**

- Markush structure to text export.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.29.0**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.28.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.27.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.26.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.25.0**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.24.0**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.23.0**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.22.0**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.21.0**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.20.0**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.19.0**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.18.0**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.17.0**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.16.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.15.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.14.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.13.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.12.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.11.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.10.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.9.0**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.8.0**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.7.0**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.6.0**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.5.0**

## **New Features and Improvements**

- Version number system change

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.4.3**

## **New Features and Improvements**



- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.3.27**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.3.13**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.2.27**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.2.20**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.2.13**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.2.6**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.1.30**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.1.23**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.1.16**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.1.9**

### **New Features and Improvements**

- Configurable Markush validation options.
- Bond length checker removed from default checker configuration.
- Major platform update

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 17.1.2**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.12.26**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.12.19**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.12.12**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes

## **Markush Editor 16.12.5**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.11.28**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.11.21**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.10.31**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.10.24**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.10.17**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.10.10**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.10.3**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.9.26**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.9.12**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.9.5**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.8.29**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.8.22**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.8.15**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.8.8**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.8.1**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.7.25**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.7.18**

### **New Features and Improvements**

- Minor improvements.

## **Markush Editor 16.7.11**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.7.4**



## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.6.27**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.6.20**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.6.13**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.6.6**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.5.30**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.5.23**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.5.16**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.5.9**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.5.2**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.4.25**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.4.18**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.4.11**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.4.4**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.3.28**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.3.21**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.3.14**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.3.7**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.2.29**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.2.22**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.2.15**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.2.8**

## **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.2.1**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.1.25**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.1.18**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.1.11**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 16.1.4**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.11.14**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.12.7**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.11.30**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.11.23**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.11.16**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.11.9**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.11.2**

### **New Features and Improvements**

- Minor improvements.

## **Bugfixes**



- Minor bugfixes.

## **Markush Editor 15.10.26**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.10.19**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.10.12**

### **New Features and Improvements**

- Rename R-groups from the tree.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.9.28**

### **New Features and Improvements**

- Save validation result during structure list export.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.9.21**

### **New Features and Improvements**

- The number of matching structures in validation view.
- Ignore stereo during Markush validation

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.9.14**

### **New Features and Improvements**

- Minor improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.9.7**

### **New Features and Improvements**

- New composer dialog.
- Composer input file with non-separated molecules allowed.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.8.31**

### **New Features and Improvements**

- Non-hit related improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.8.24**

### **New Features and Improvements**

- Stereo ignored during Markush validation and Non-Hit coloring.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.8.17**

### **New Features and Improvements**

- Non-hit related improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.8.10**

### **New Features and Improvements**

- Non-hit related improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.8.3**

### **New Features and Improvements**

- Non-hit related improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.7.27**

## **New Features and Improvements**

- Non-hit related improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.7.20**

## **New Features and Improvements**

- Non-hit related improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.7.13**

## **New Features and Improvements**

- Non-hit related improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.7.6**

## **New Features and Improvements**

- Minor UI improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.6.29**

## **New Features and Improvements**

- Minor UI improvements.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.6.22**

### **New Features and Improvements**

- logP filter in the biased enumeration.
- Save and reset enumeration preferences.
- New more-readable estimated library size format.

### **Bugfixes**

- R-group aliases are not shown in enumeration spreadsheet view.
- Max. structure count applied before filtering resulting fewer structures what is expected.

## **Markush Editor 15.6.15**

### **New Features and Improvements**

- Markush validation against structure list, with built in hit and non-hit visualization.
- By using Markush Composer wizard validation structures automatically populated with the Composer's input structure list.
- Hydrogen bond donors and acceptors filter in biased enumeration.

### **Bugfixes**

- Incorrect fragment size in a case of link node and repeating unit fixed.
- Strange look of enumeration panel in Mac and Linux fixed.

## **Markush Editor 15.6.1**

### **New Features and Improvements**

- Biased enumeration (directed enumeration based on user defined parameters).
- Molecular weight filter in biased enumeration.
- Unified Mac and Linux installer.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.5.18**

### **New Features and Improvements**

- R-group inline action in Markush tree nodes context menu

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.5.4**

### **New Features and Improvements**

- Better display for Composer results.
- Improved MCS calculation for R-group nesting.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.4.27**

### **New Features and Improvements**

- Minor UI improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.4.20**

### **New Features and Improvements**

- Composer capable of generating Markush structures with position variation bonds.
- Support of R-groups for user defined scaffold.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.4.13**

### **New Features and Improvements**

- Info dialog if composer creates more than one Markush structures.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.4.6**

### **New Features and Improvements**

- Atom list and bond list support in Composer for user defined scaffold.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.3.30**

### **New Features and Improvements**

- Improved scaffold recognition in Composer.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.3.23**

### **New Features and Improvements**

- Set scaffold function in Markush Composer wizard.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.3.16**

### **New Features and Improvements**

- Display R-group alias instead of R-group number if it exists.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.3.9**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.3.2**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.2.23**

### **New Features and Improvements**

- Smaller, fragment selection handling improvements.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.2.16**



## **New Features and Improvements**

- New selection, hit error and warning visualization in Markush Tree and Fragment view.
- Improved undo and redo mechanism, capable of handling structure fixer actions.
- Mac and Linux installer.

## **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.2.9**

### **New Features and Improvements**

- A new selection hit error and warning visualization in Markush Tree and Fragment view.
- Improved undo and redo mechanism, capable of handling structure fixer actions.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.2.2**

### **New Features and Improvements**

- Support common hotkeys.
- Add R-group attachments to fragments automatically in trivial cases.
- Make structure fix actions undoable.

### **Bugfixes**

- Enumeration exception in a case of undefined R-groups.

## **Markush Editor 15.1.26**

### **New Features and Improvements**

- Automatic version update.
- Reorganized preview and nesting view components.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.1.19**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.1.12**

### **New Features and Improvements**

- Spreadsheet view for enumeration results with R-group fragments.
- Duplicates and infeasible rings filter in the enumeration.
- Enumeration results in export.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 15.1.5**

### **New Features and Improvements**

- New interactive Markush enumeration view.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.12.8**

### **New Features and Improvements**

- If a Markush structure inserted into the scaffold editor it automatically split to scaffold and fragments.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.12.1**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.11.24**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Display only explicit R/S labels.
- Markush export error in some cases.
- Wrong tab display names for files containing multiple structures.

## **Markush Editor 14.11.17**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Checker panel "invalid checker" warning fixed.

## **Markush Editor 14.11.10**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- In the Markush tree view, scrolling to the selected structure checker result did not work properly.
- Fixing only a selected structure checker result did not work properly in some cases.
- Enumeration count of `hHomologies` modified to one regardless to the type of the homology.

## **Markush Editor 14.11.3**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.10.27**

### **New Features and Improvements**

- R-group bridging support.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.10.20**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.10.13**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.10.6**

### **New Features and Improvements**

- Dynamic enumeration count calculation.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.9.29**

### **New Features and Improvements**

- Full view removed.
- New action icons added.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.9.22**

### **New Features and Improvements**

- Composer standardizer action for removing awkward/superfluous R-groups.
- Composer scaffold calculation optimization.

### **Bugfixes**

- Minor enumeration related bugfixes.

## **Markush Editor 14.9.15**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.9.8**

### **New Features and Improvements**

- Support for open multiple files at once.
- Improved re-ordering of fragments and R-groups.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.9.1**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- Minor bugfixes.

## **Markush Editor 14.8.25**

### **New Features and Improvements**

- List atom supports in the composer.
- Migrated to Java 8.

### **Bugfixes**

- Composer-related minor bugfixes.

## **Markush Editor 14.8.18**

### **New Features and Improvements**

- Unnecessary fragment and scaffold cleaning removed.

### **Bugfixes**

- No changes.

## **Markush Editor 14.8.11**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- No changes.

## **Markush Editor 14.8.4**

### **New Features and Improvements**

- MCS optimization for better scaffold recognition.

### **Bugfixes**

- No changes.

## **Markush Editor 14.7.28**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- No changes.

## **Markush Editor 14.7.21**

### **New Features and Improvements**

- No changes.

### **Bugfixes**

- New empty file saving exception fixed.

## **Markush Editor 14.7.14**

### **New Features and Improvements**

- "Don't show this message again" option for license warning in viewer mode.

### **Bugfixes**

- Fewer Composer warnings.
- Memory leak related to closed structures fixed.

## **Markush Editor 14.7.7**

### **New Features and Improvements**

- Markush Composer Wizard for generating Markush structures automatically from the list of compounds.
- Improved fragment visualization.
- Fragments' borders removed.
- Random enumeration when only scaffold selected.
- The opening sketch window by double clicking.
- Improved product info dialog.

### **Bugfixes**

- New files naming error fixed by confusing temporary file ID removed.
- Timing error related to fast tabs opening fixed.

## **Markush Editor 6.3.0**

### **New Features and Improvements**

- First public release.