

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.