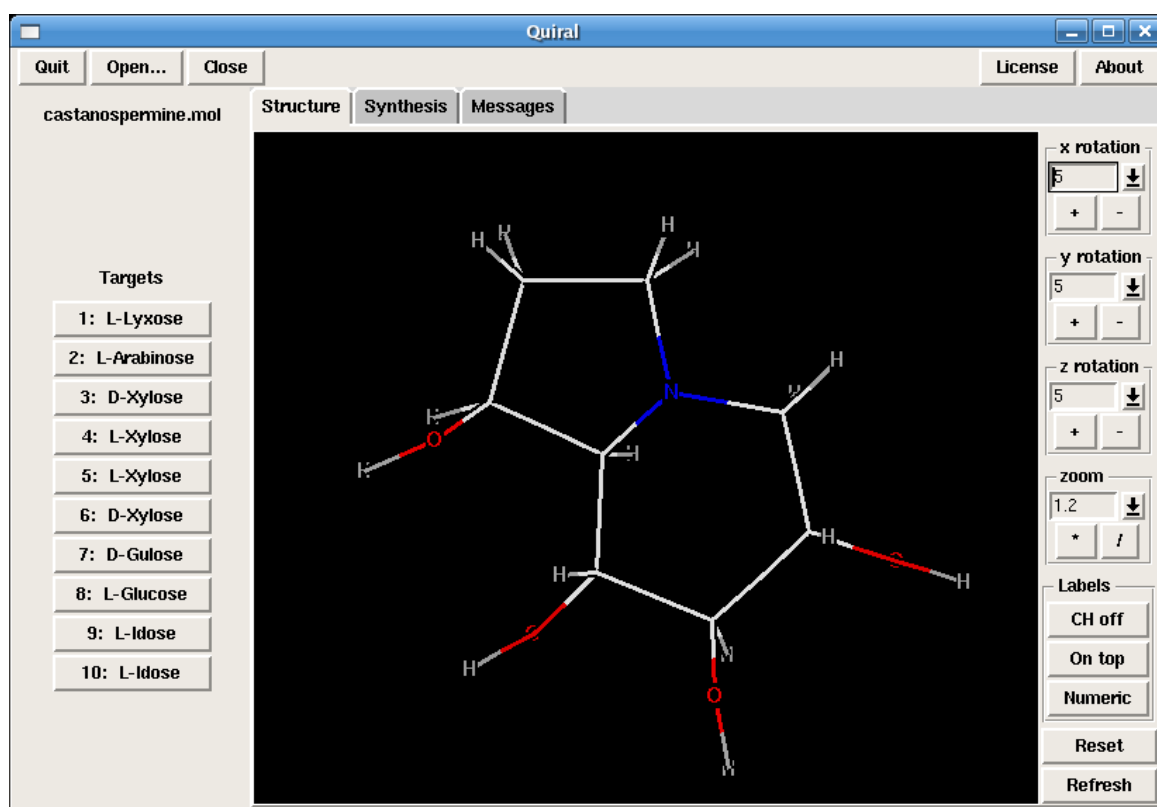


Quiral: a Computer Program for the Synthesis of Chiral Molecules from Sugars.

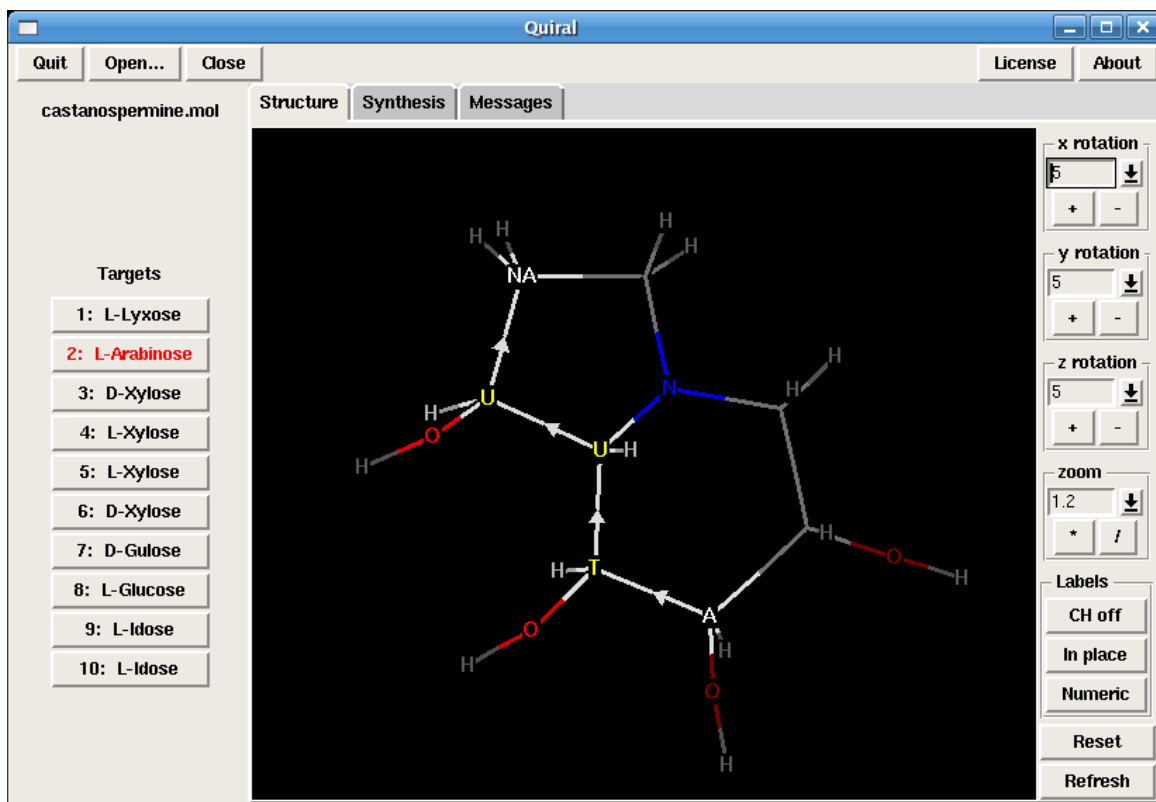
Jean-Marc Nuzillard and Arnaud Haudrechy

The Quiral computer program can be downloaded from
<http://www.univ-reims.fr/LSD/JmnSoft/Quiral>

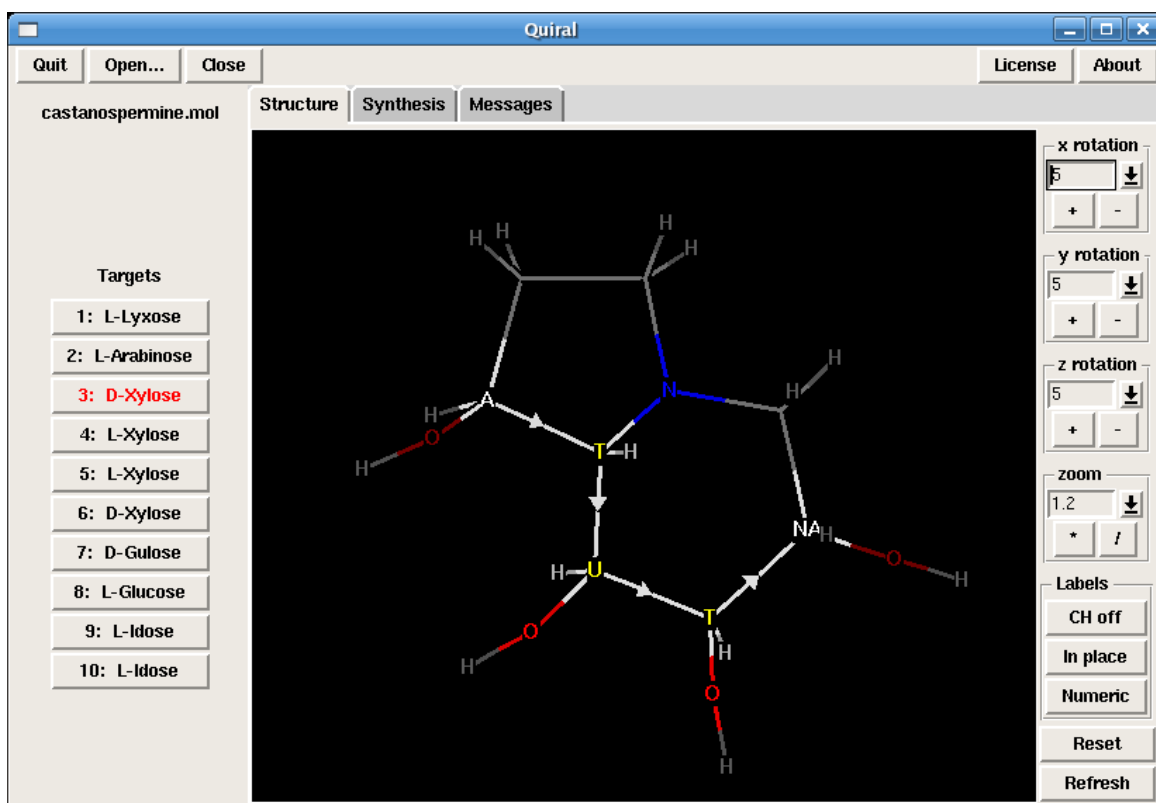
The Quiral graphical interface



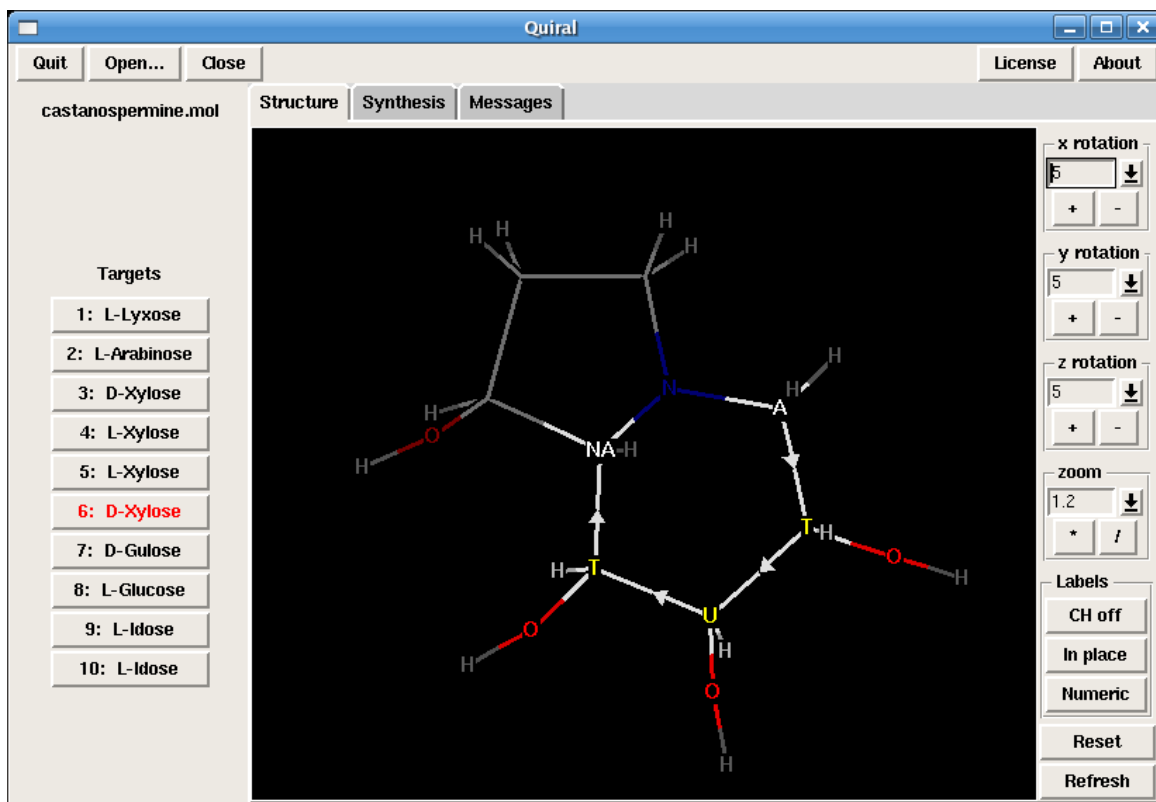
The castanospermine molecule is loaded and the CH bonds made visible



L-Arabinose is selected as Q-target. The other carbon atoms are shaded.



D-Xylose (first occurrence) is selected as Q-target



D-Xylose (second occurrence) is selected as Q-target

Quiral

castanospermine.mol

Structure Synthesis Messages

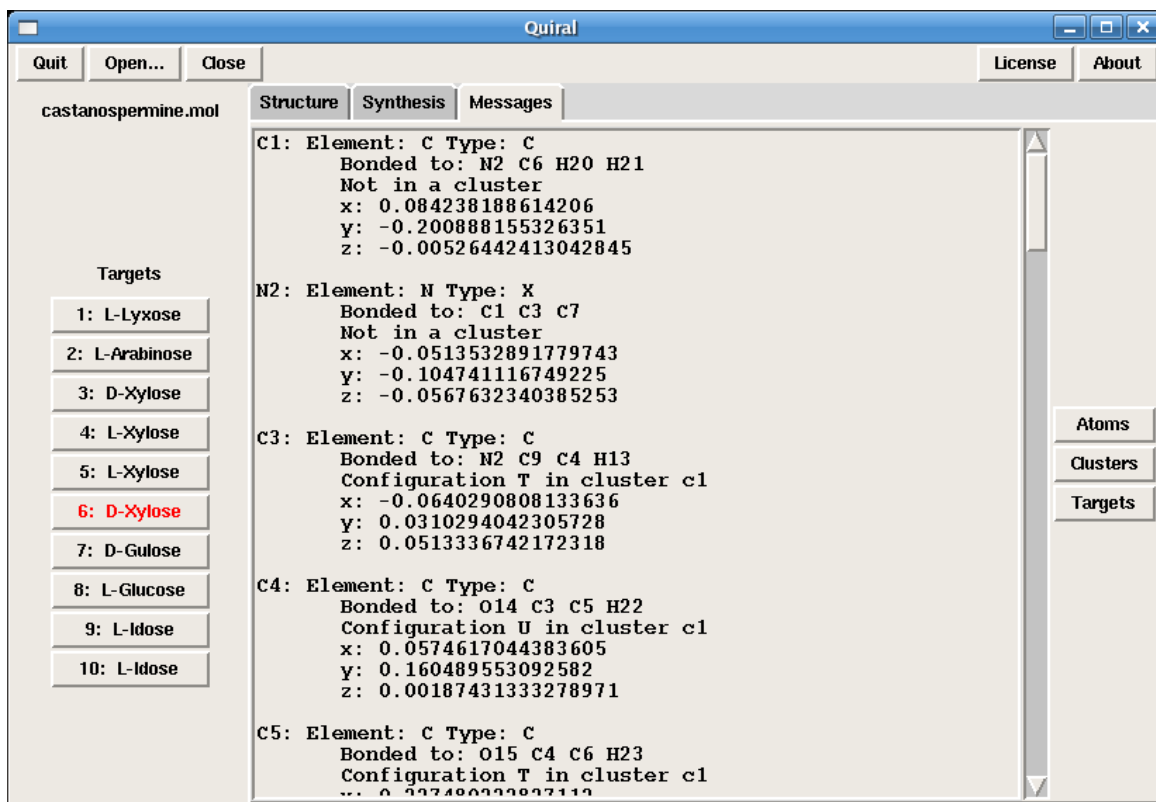
Level: 1

D-Ara	D-Xyl	inv23
D-Glu	D-Xyl	chopNonAnom
D-Gul	D-Xyl	chopAnom
D-Ido	D-Xyl	chopAnom
D-Lyx	D-Xyl	inv2
D-Rib	D-Xyl	inv3
D-Thr	D-Xyl	addAnom
L-Ara	D-Xyl	inv4
L-Ido	D-Xyl	chopNonAnom
L-Lyx	D-Xyl	inv34
L-Thr	D-Xyl	addNonAnom
L-Xyl	D-Xyl	exch

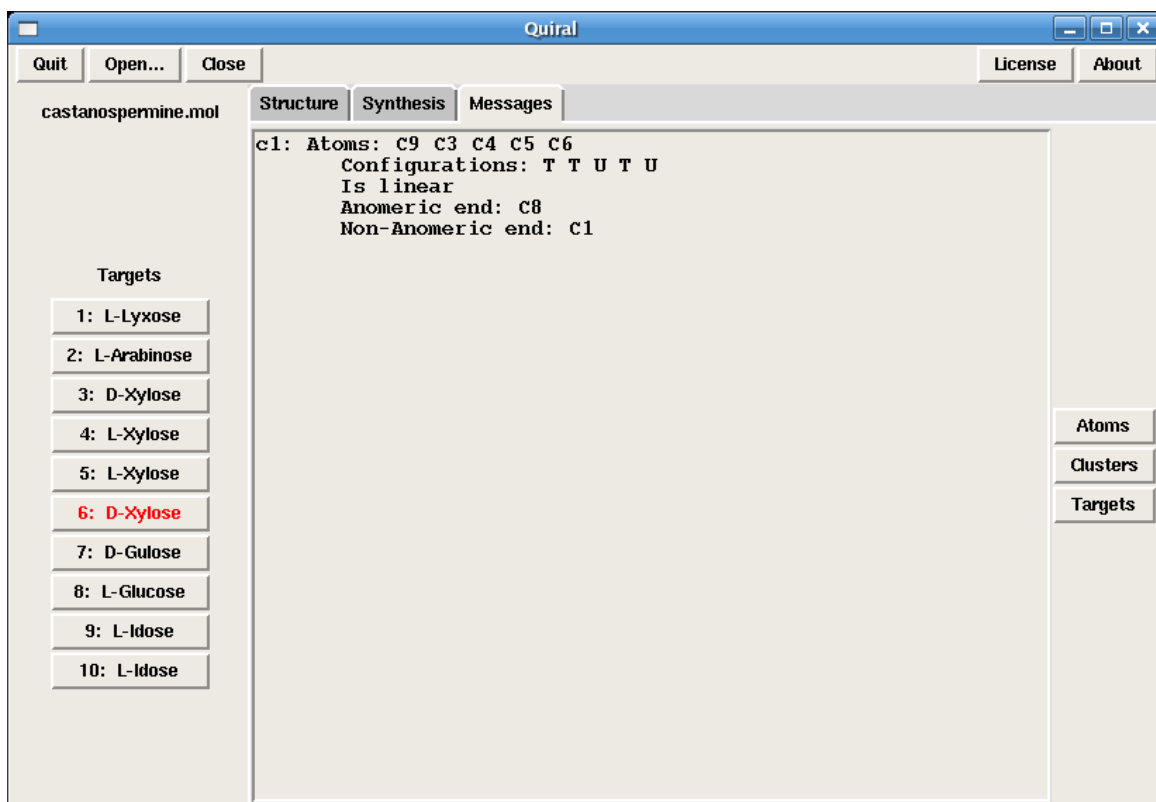
Targets

- 1: L-Lyxose
- 2: L-Arabinose
- 3: D-Xylose
- 4: L-Xylose
- 5: L-Xylose
- 6: D-Xylose
- 7: D-Gulose
- 8: L-Glucose
- 9: L-Idose
- 10: L-Idose

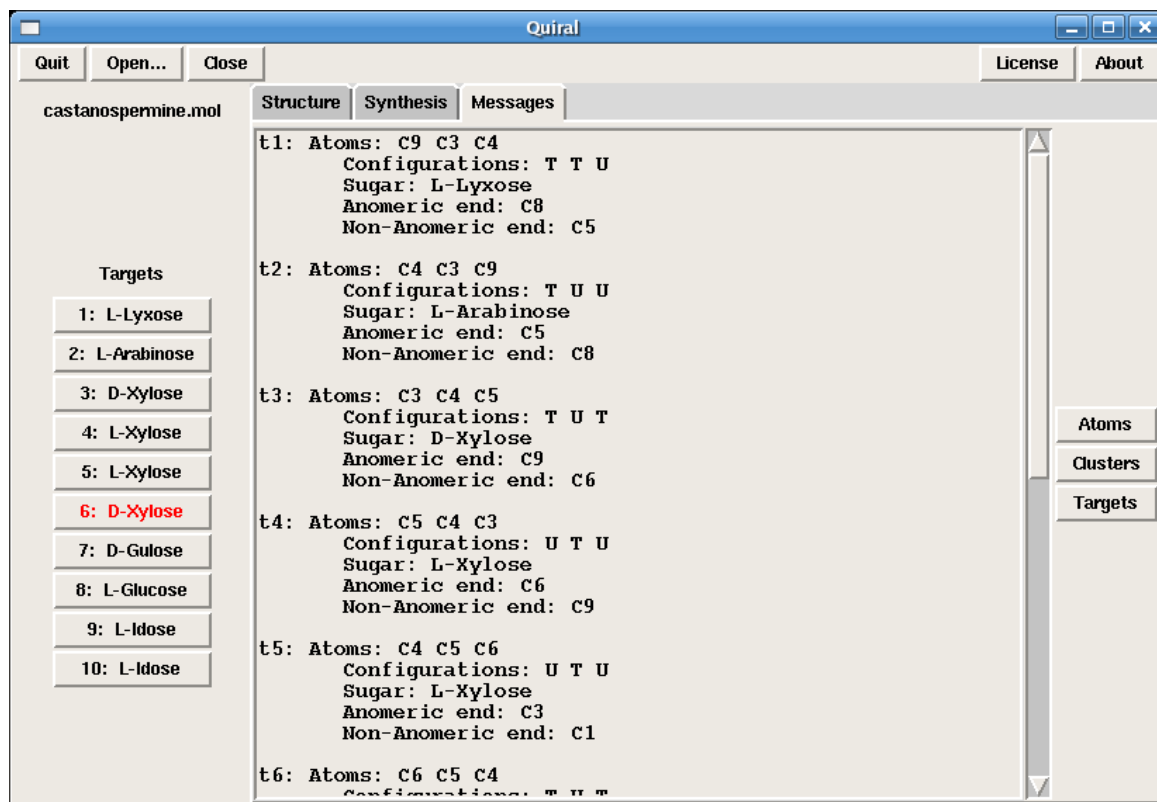
The Q-reactions that lead to D-Xylose in one step, in the “Synthesis” page.



Detailed information on atoms (in the “Messages” page)



Information about the Q-cluster of the structure



Information about the Q-targets

castanospermine.mol

Structure Synthesis Messages

Targets

1: L-Lyxose
2: L-Arabinose
3: D-Xylose
4: L-Xylose
5: L-Xylose
6: D-Xylose
7: D-Gulose
8: L-Glucose
9: L-Idose
10: L-Idose

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from the sugar chiral pool.

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Atoms
Clusters
Targets

Legal information