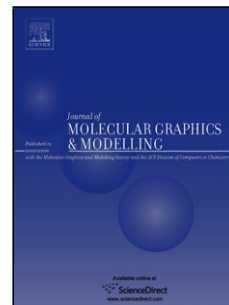


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Insights into protein-carbohydrate recognition: A novel binding mechanism for CBM family 43

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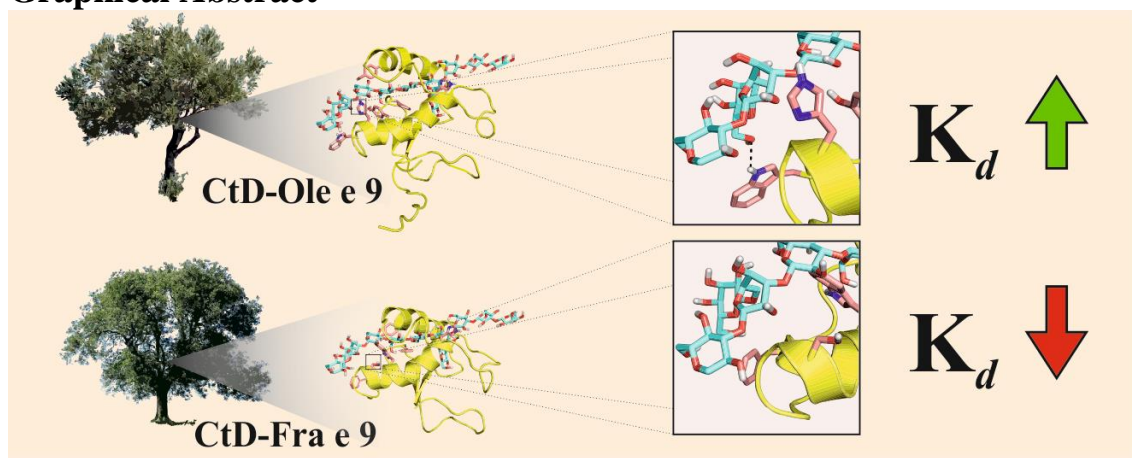
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Graphical Abstract



Highlights

- Aromatic interactions together with hydrogen bonding are essential for sugar binding.
- The expression of isoforms with different affinities for the ligand could regulate enzyme activity.
- Slight variations in the amino acid sequence can result in significant changes in the affinity for the ligand.
- A binding mechanism for protein-CBM is proposed
- A key His residue enable unusual higher affinity

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