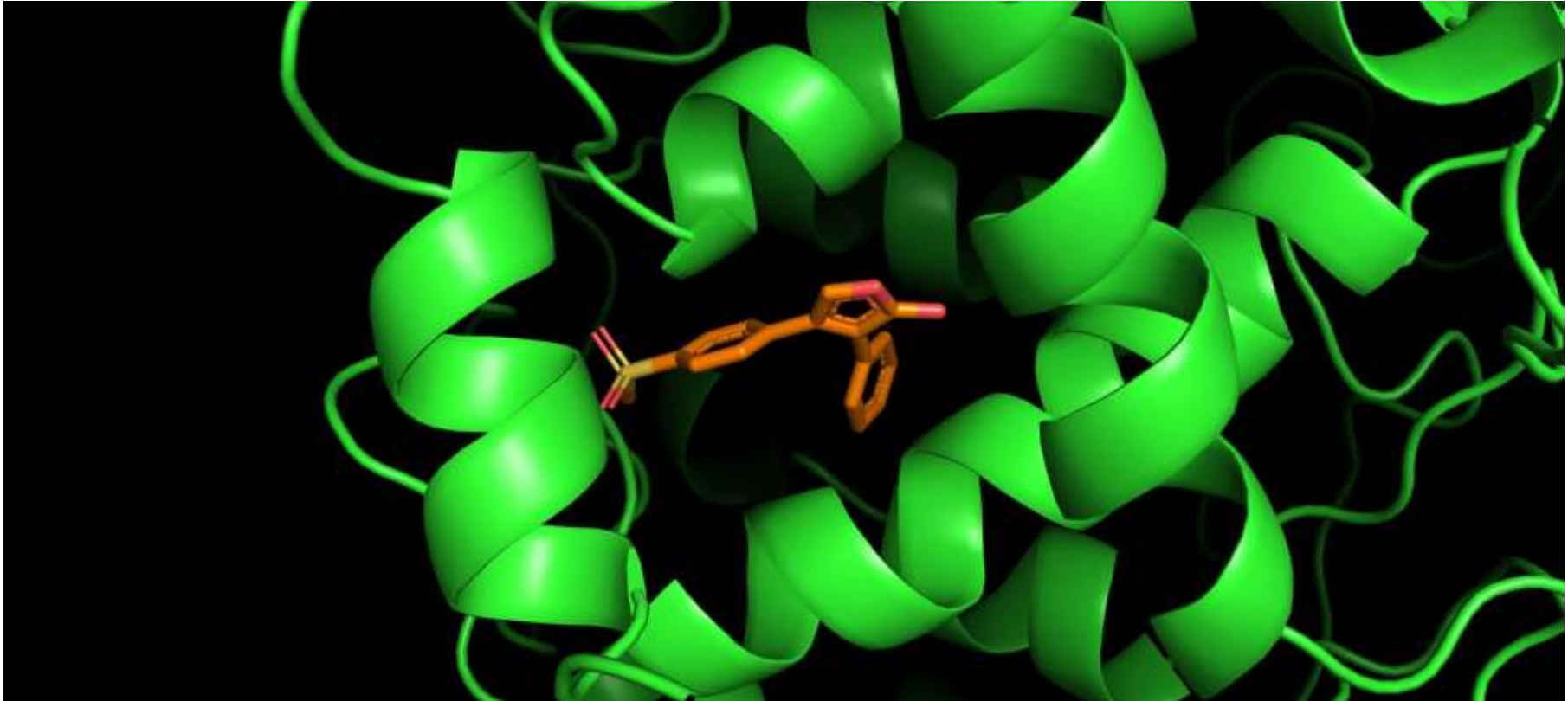
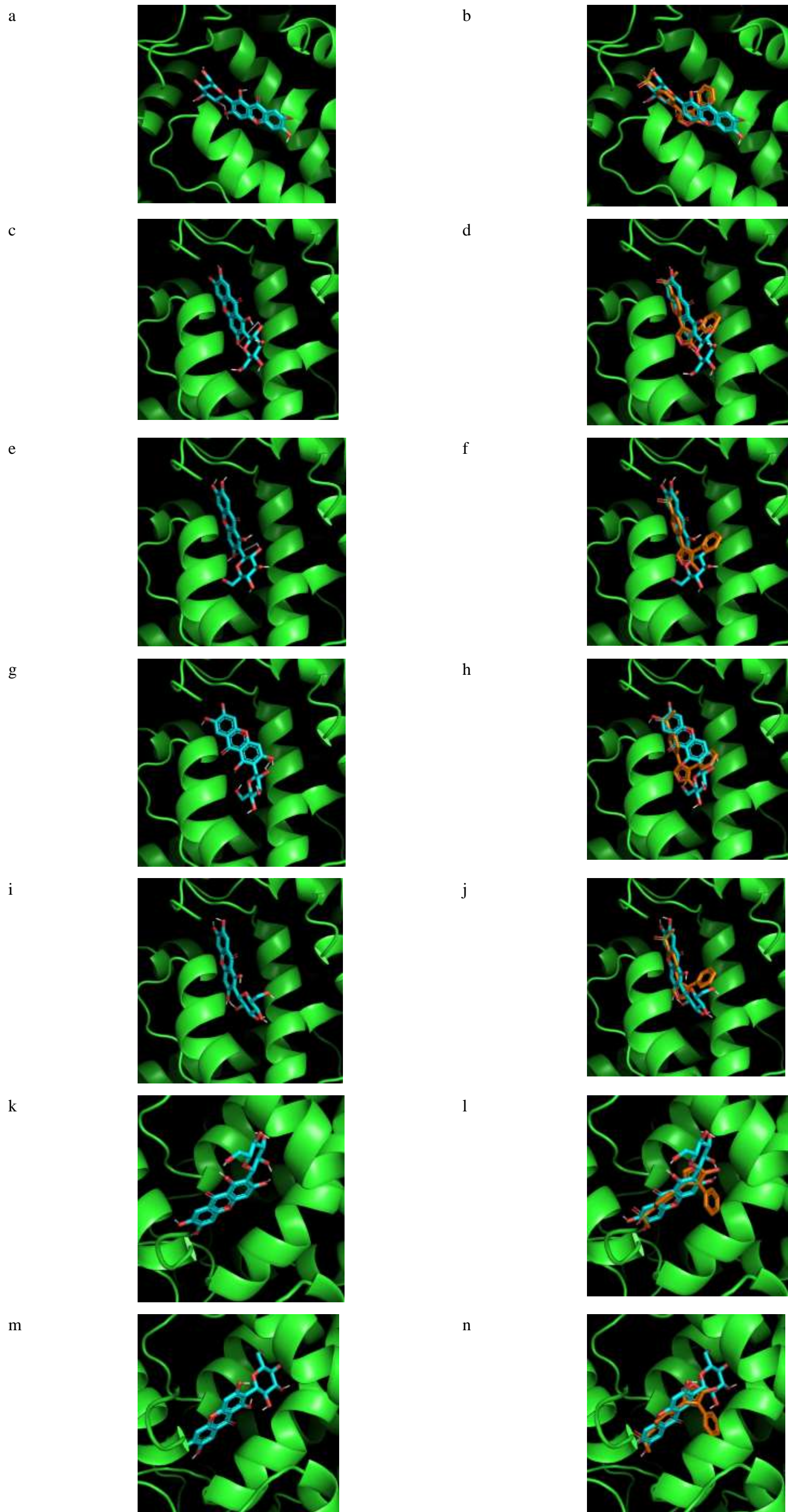


Supplementary Fig 1: Binding of Rofecoxib inhibitor with chain A of COX-2. Note: binding was present in the crystal structure of COX-2 (PDB ID: 5KIR)



Supplementary Fig 2: Binding of Rofecoxib inhibitor with chain B of COX-2. Note: binding was present in the crystal structure of COX-2 (PDB ID: 5KIR)

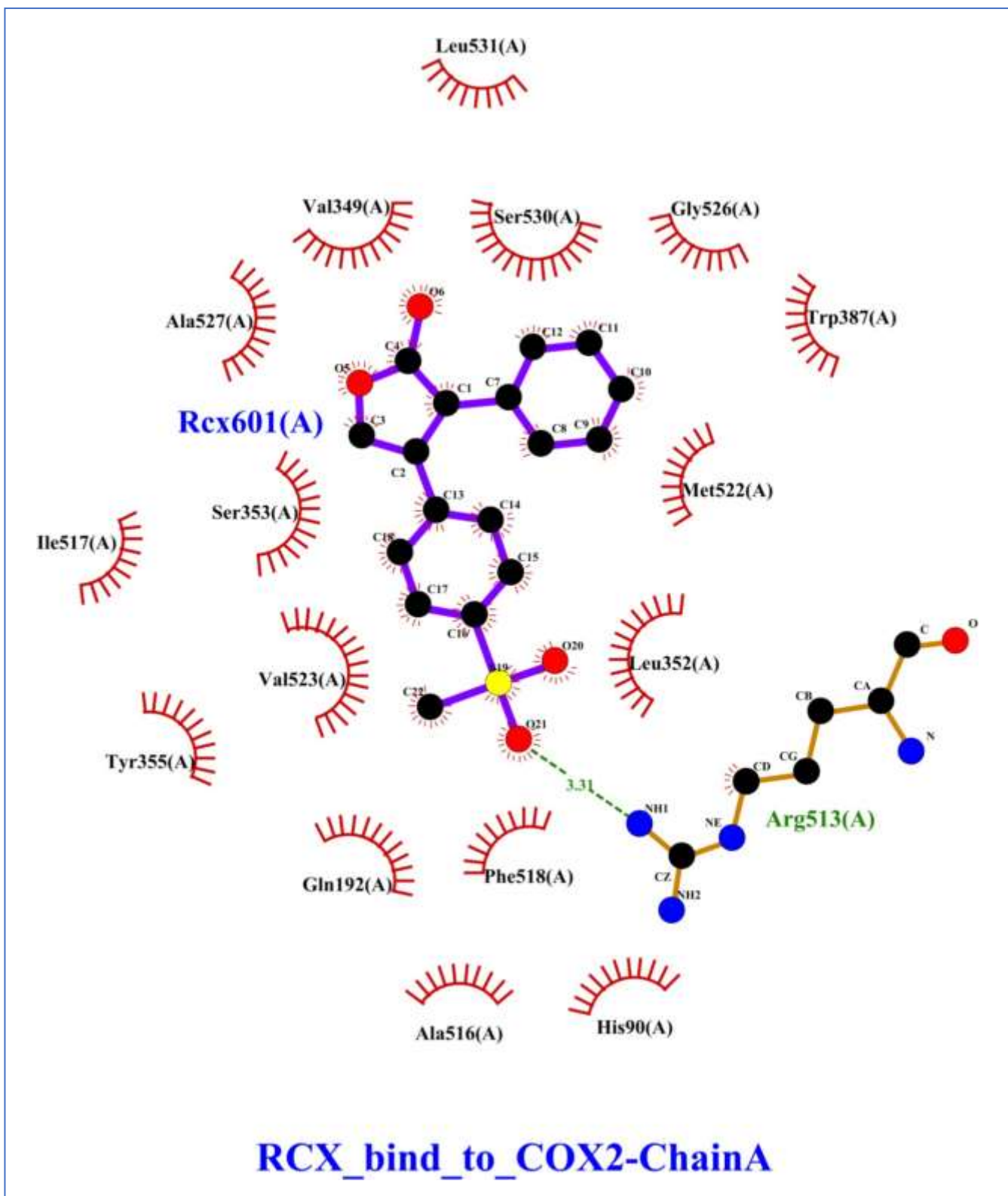


Supplementary Fig 3. (a-m). Pose comparisons of along with bounded RCX ligand for Pose Comparison

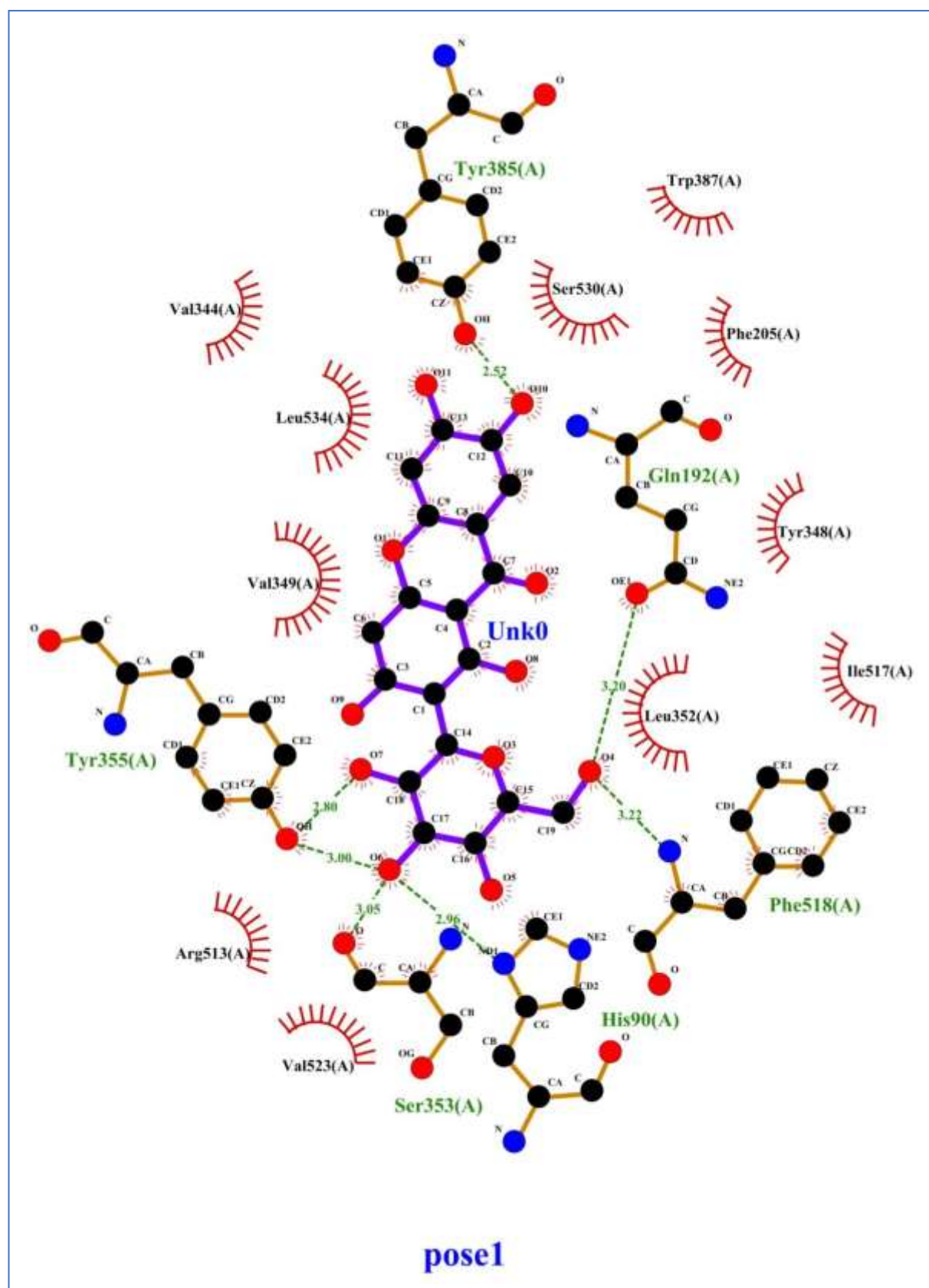




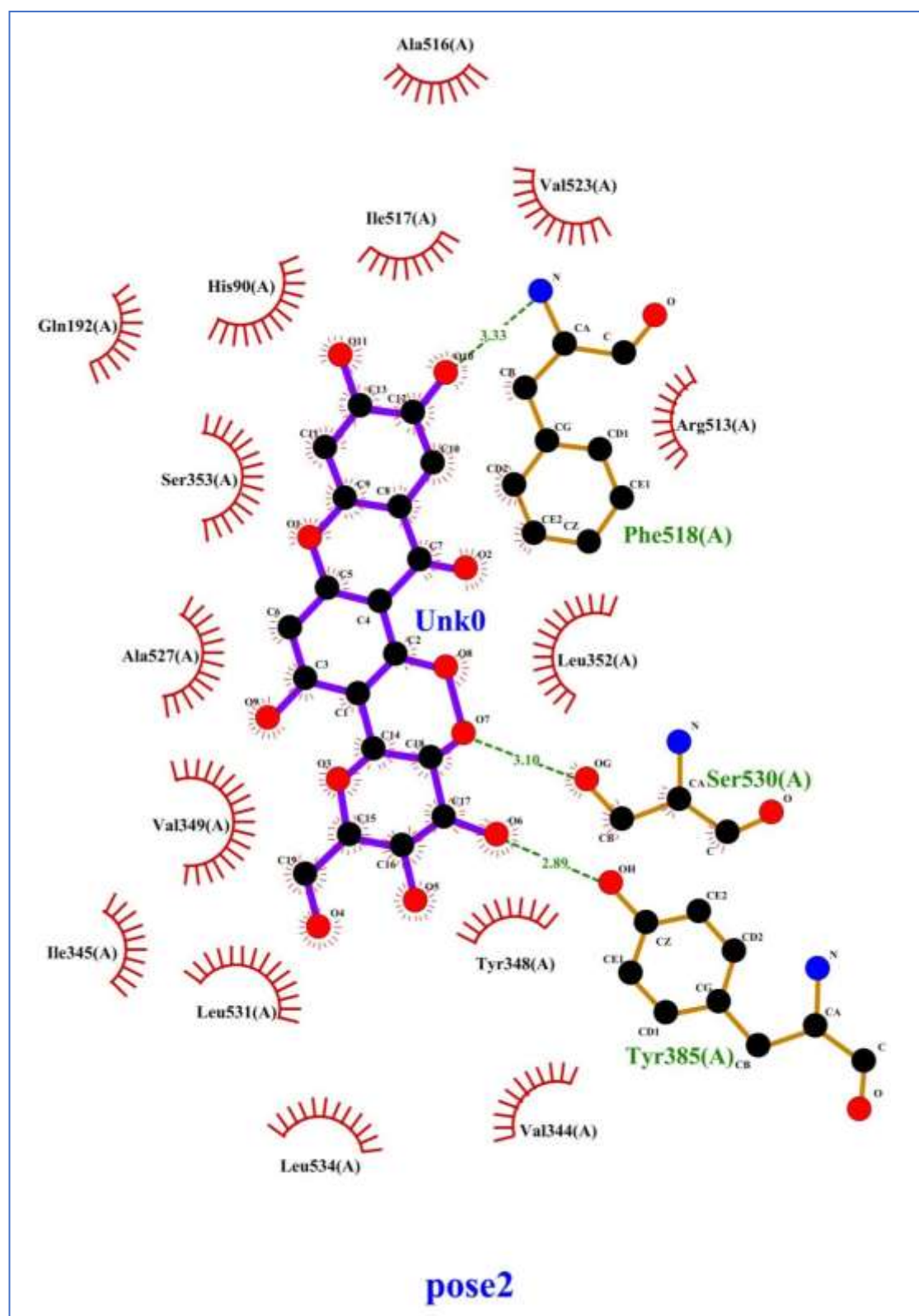
Supplementary Fig 4: Symbols used to show Protein-Ligand Interaction (LigPlus Software).



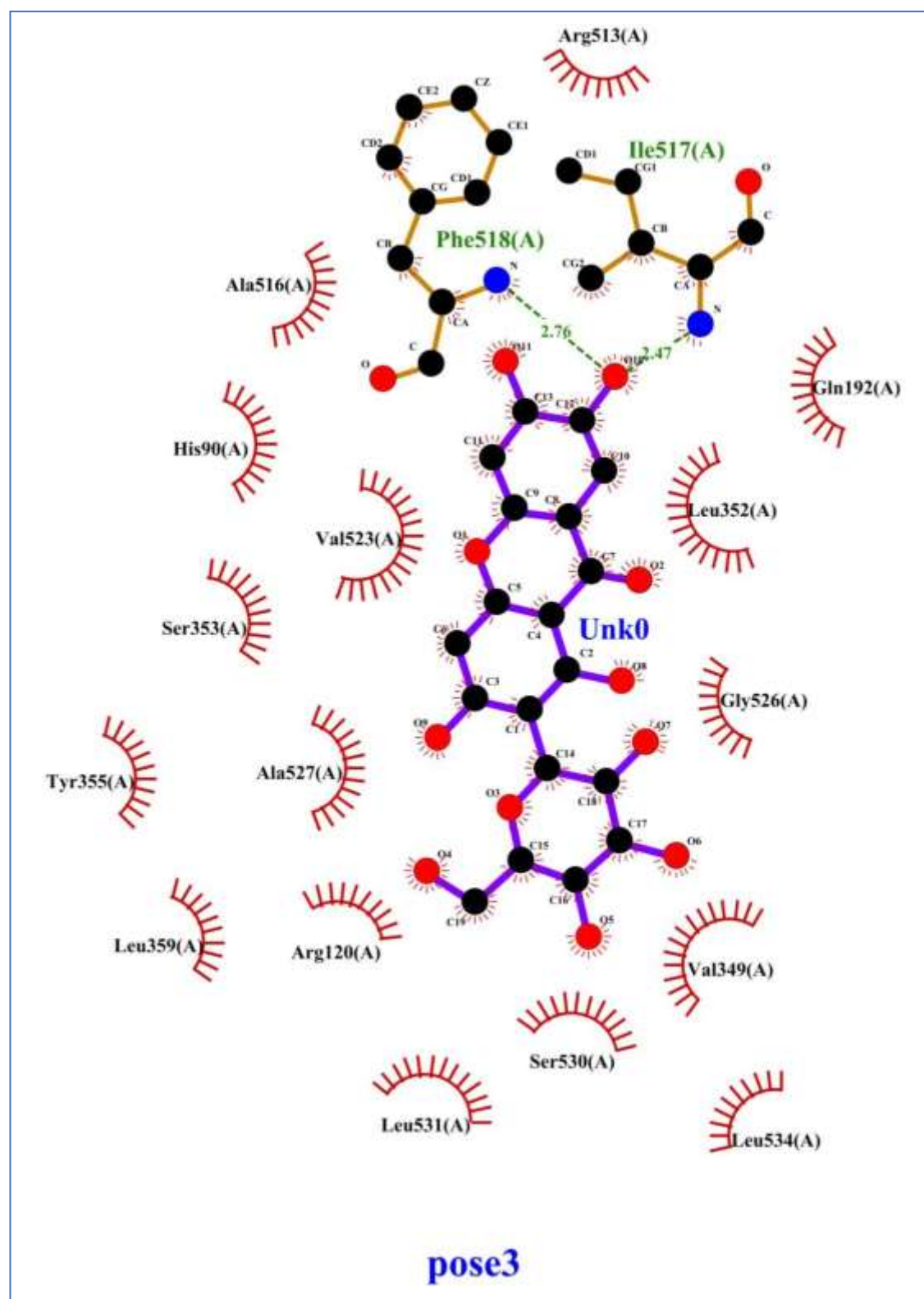
Supplementary Fig 5: Protein-Ligand Interaction of RCX ligand with COX-2 chain A.



Supplementary Fig 6. Protein-Ligand Interaction of Pose 01 of molecular docking of Mangiferin at the site of RCX inhibitor ligand.

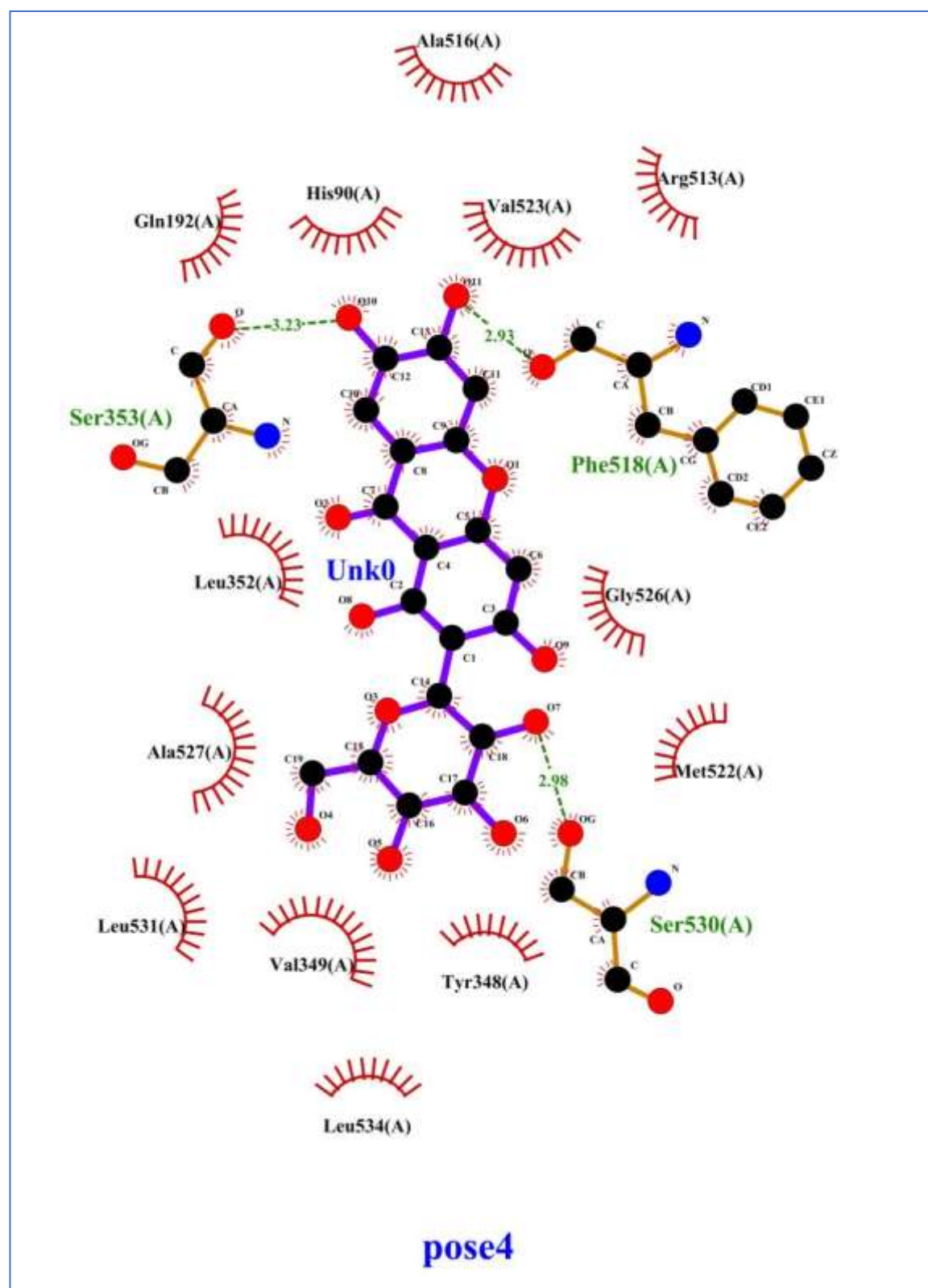


Supplementary Fig 7. Protein-Ligand Interaction of Pose 02 of molecular docking of Mangiferin at the site of RCX inhibitor ligand.

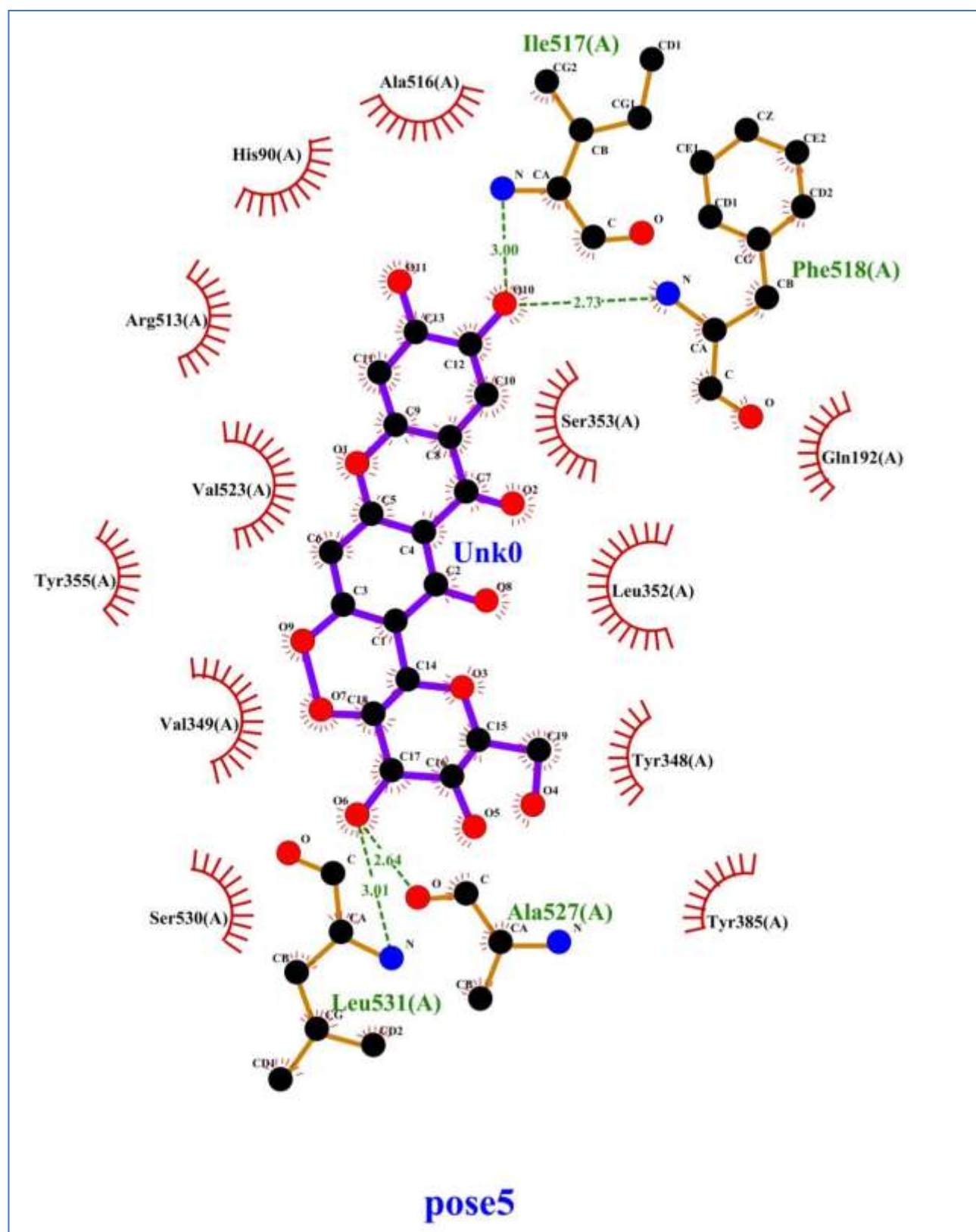


Supplementary Fig 8. Protein-Ligand Interaction of Pose 03 of molecular docking of Mangiferin at the site of RCX inhibitor ligand.

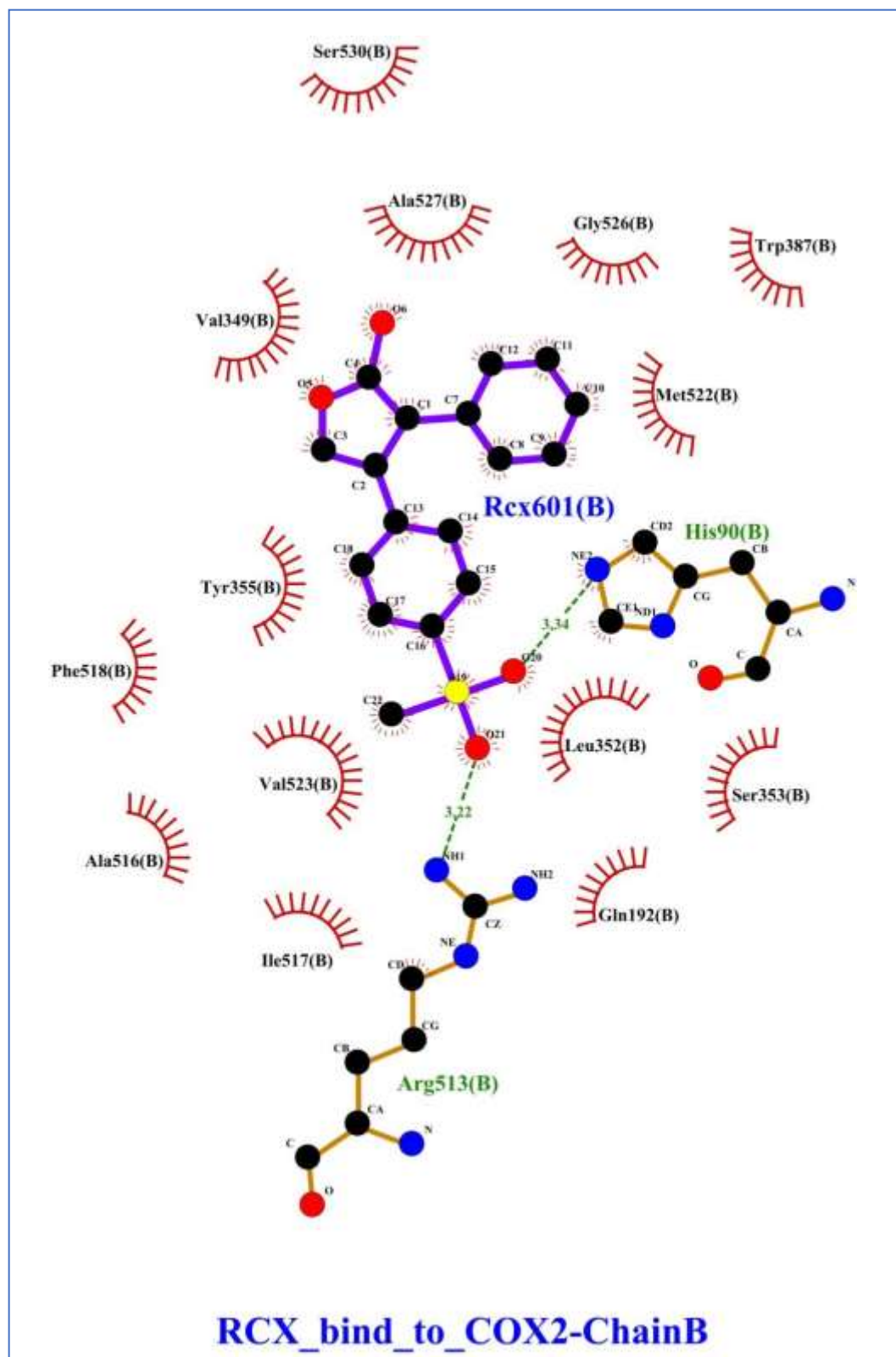




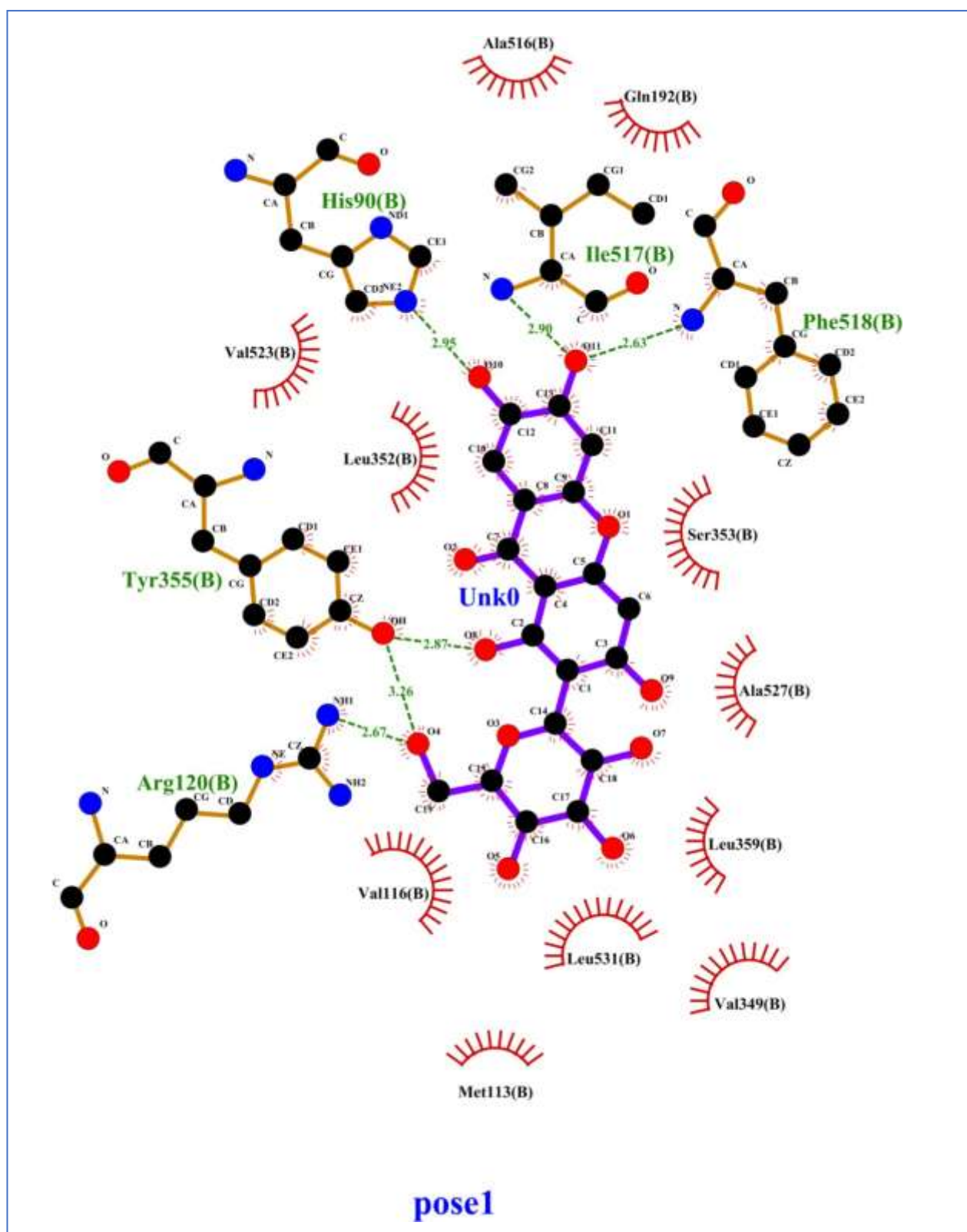
Supplementary Fig 9. Protein-Ligand Interaction of Pose 04 of molecular docking of Mangiferin at the site of RCX inhibitor ligand.



Supplementary Fig 10. Protein-Ligand Interaction of Pose 05 of molecular docking of Mangiferin at the site of RCX inhibitor ligand.

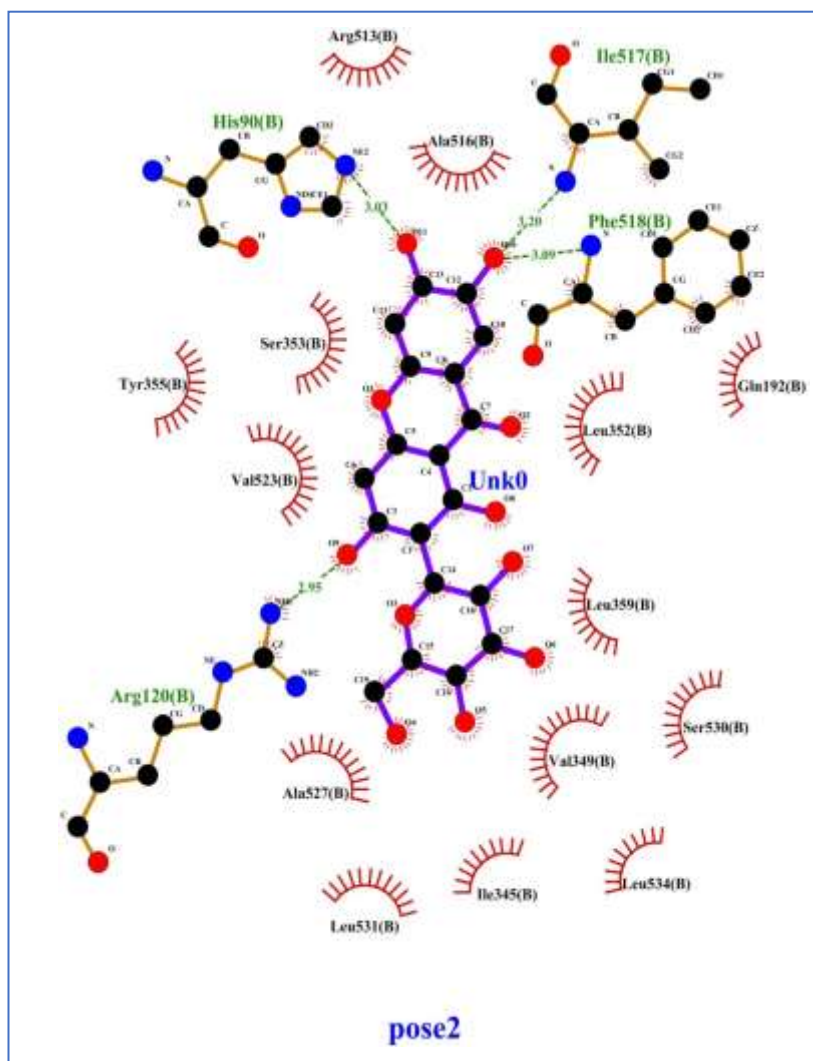


Supplementary Fig 11. Protein-Ligand Interaction of RCX ligand with COX-2 chain B.



Supplementary Fig 12. Protein-Ligand Interaction of Pose 01 of molecular docking of Mangiferin at the site of RCX inhibitor ligand.





Supplementary Fig 13. Protein-Ligand Interaction of Pose 02 of molecular docking of Mangiferin at the site of RCX inhibitor ligand.