
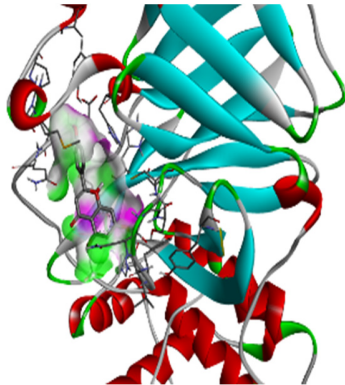
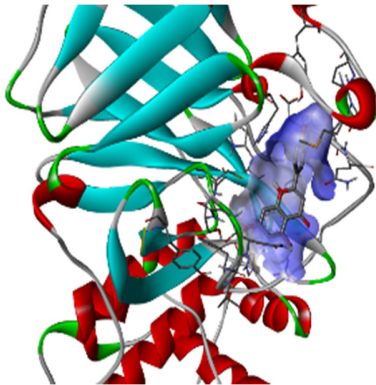
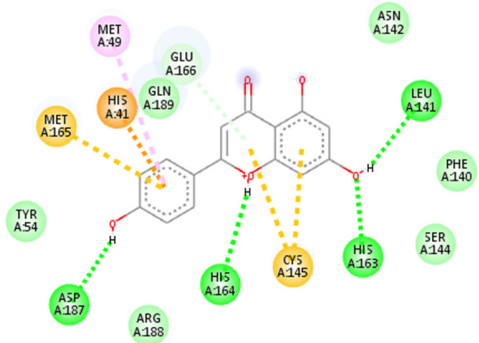
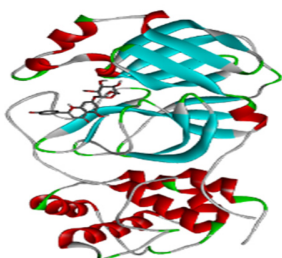
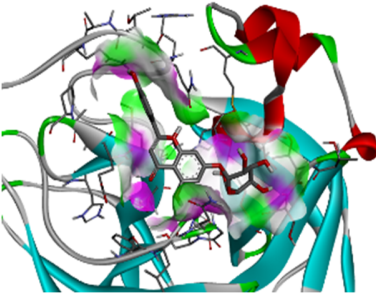
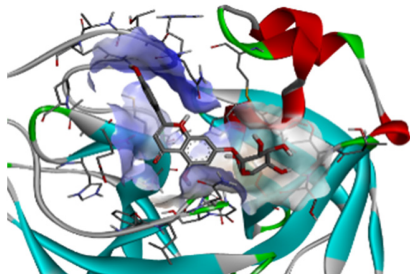
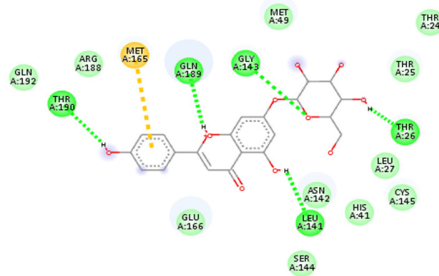
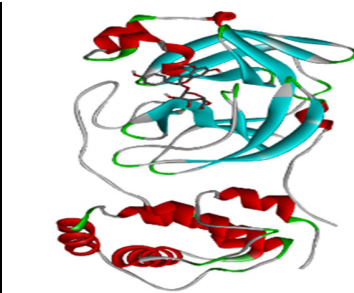
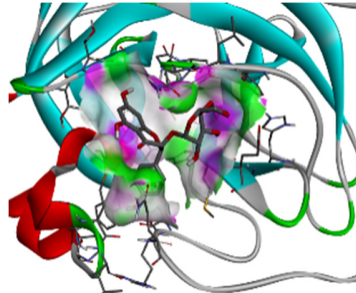
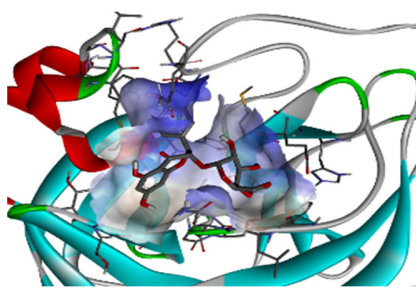
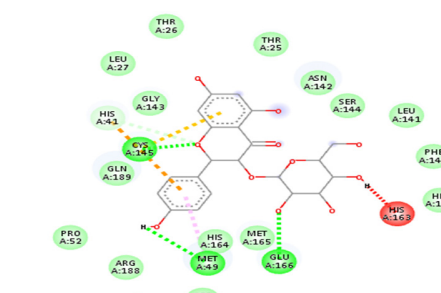
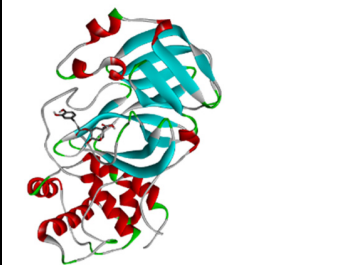
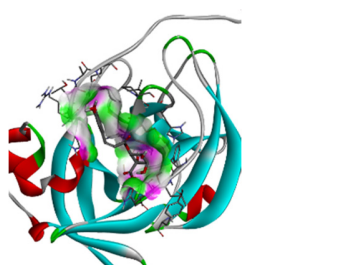
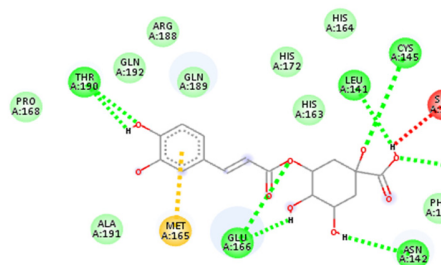
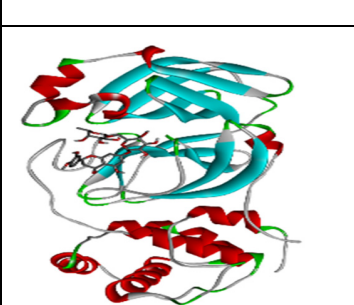

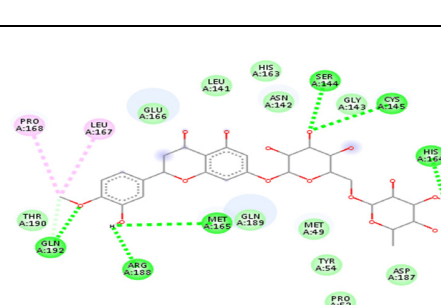

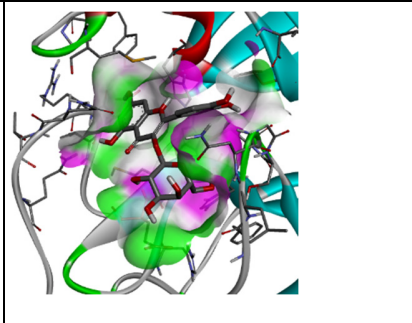
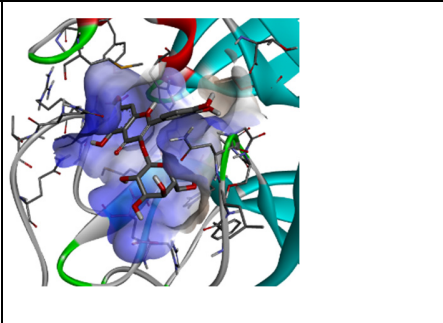
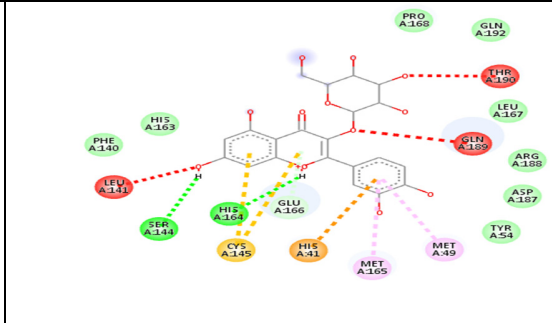

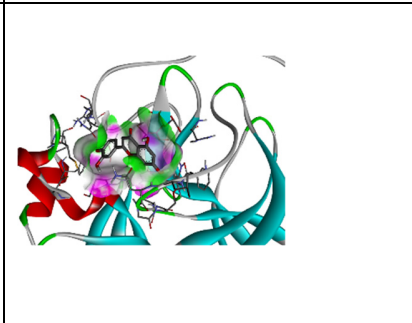

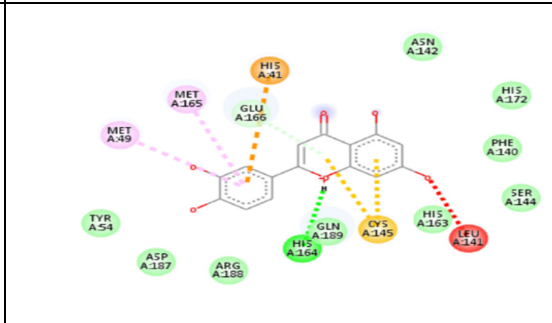
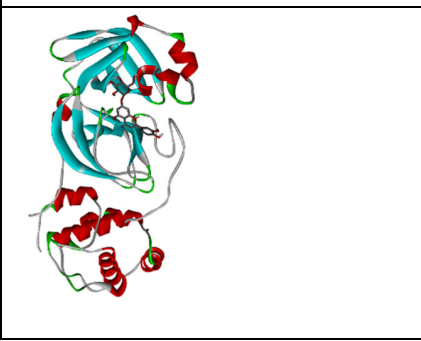
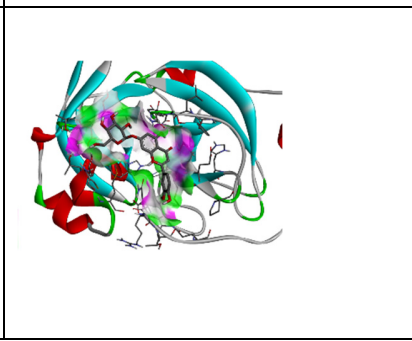
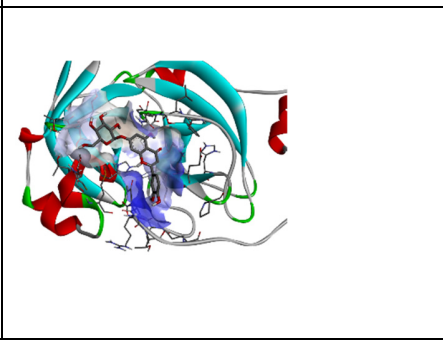
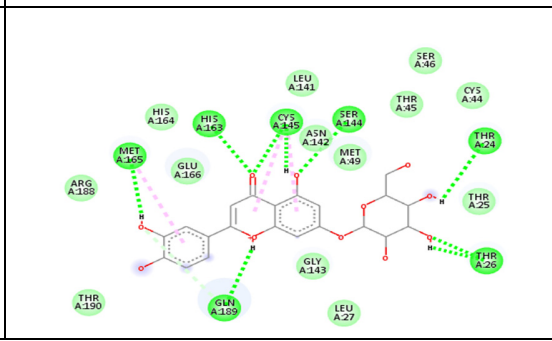



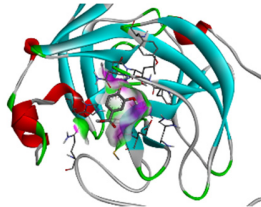
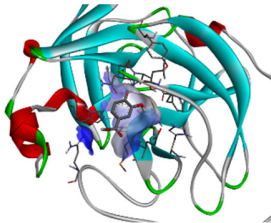
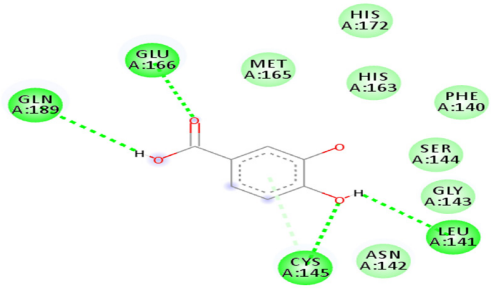

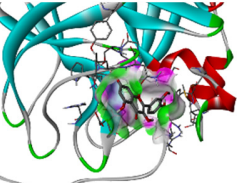
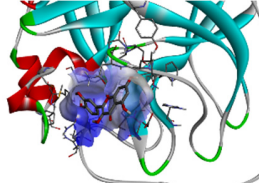
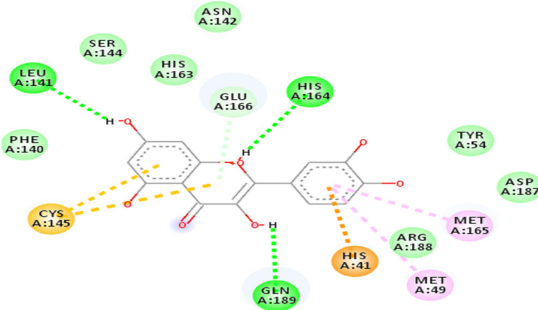
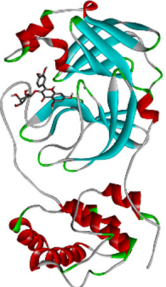
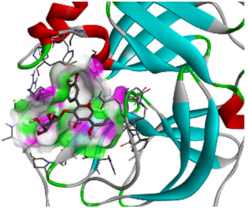
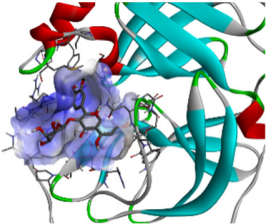
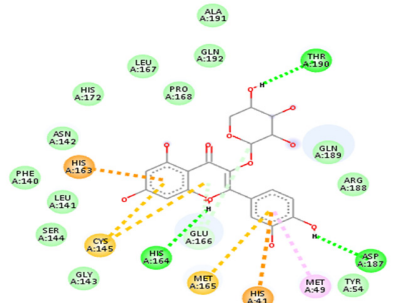
**Table S1.** Superposition and intermolecular interactions between the different ligand determined in Algerian fir and the main protease of Sars-cov 2 virus using PM7 Method (Covid19)

Compounds	Molecular Docking	H-Bond	Hydrophobic	Interactions
Apigenin				
Apigetrin				

Astragalin				
chlorogenic Acid				
Hesperidin				

Hyperoside				
Luteolin				
Luteoline-7-glucoside				

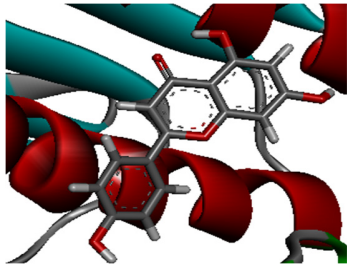
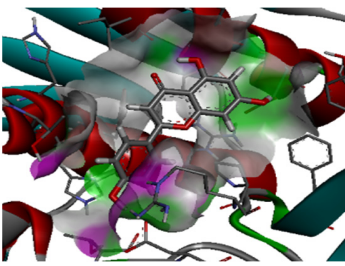
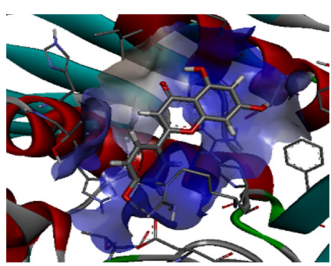
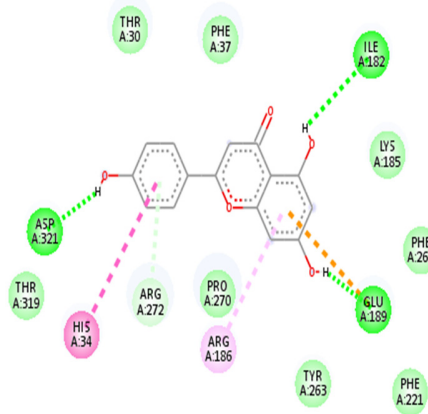


Protocatechuic Acid				
Quercetin				
Quercitrin				

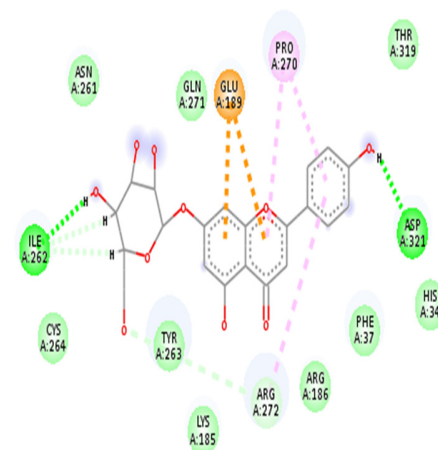
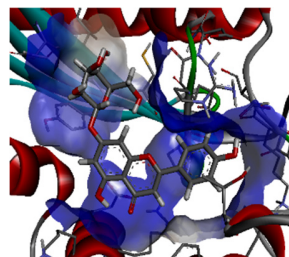
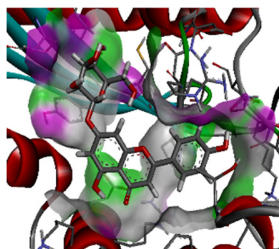
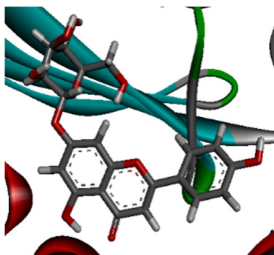




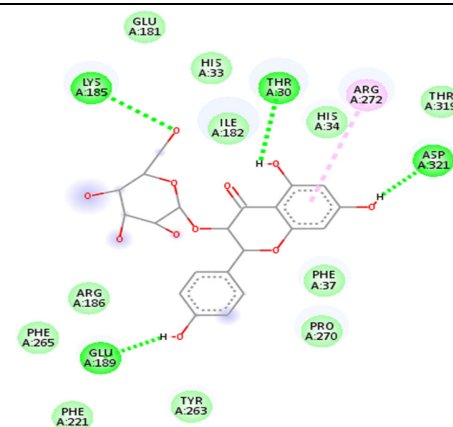
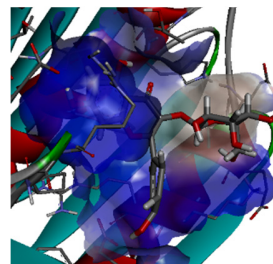
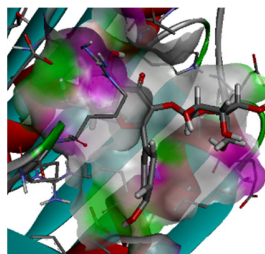
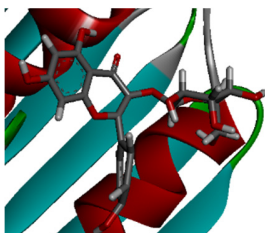
**Table S2.** Superposition and intermolecular interactions between the different ligand determined in Algerian fir and 4PRV presents in *E. coli* using PM7 Method

Molecule	Molecular Docking	H-Bond	Hydrophobic	Interactions
Apigenin				

Apigetrin

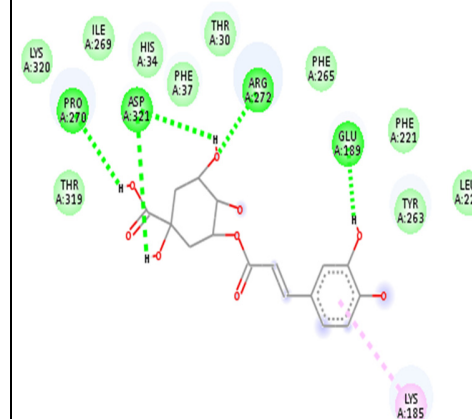
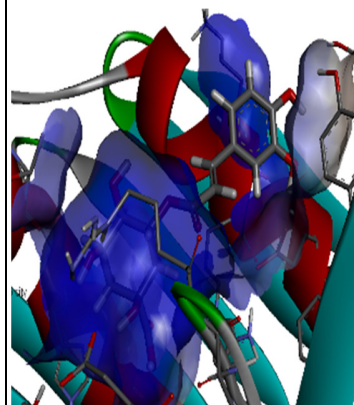
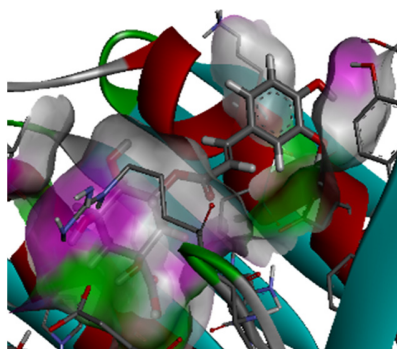
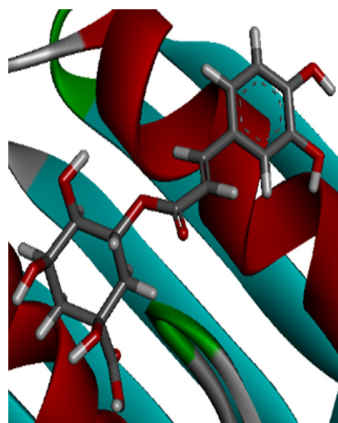


Astragalin

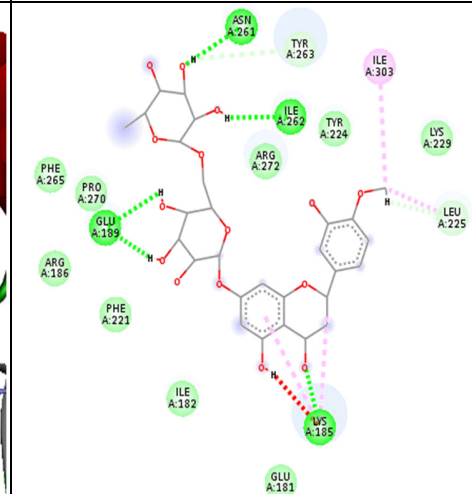
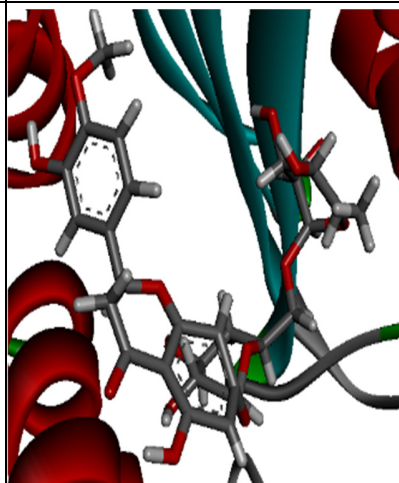




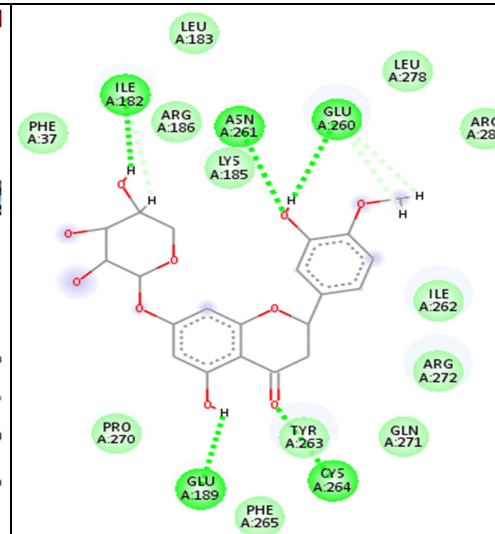
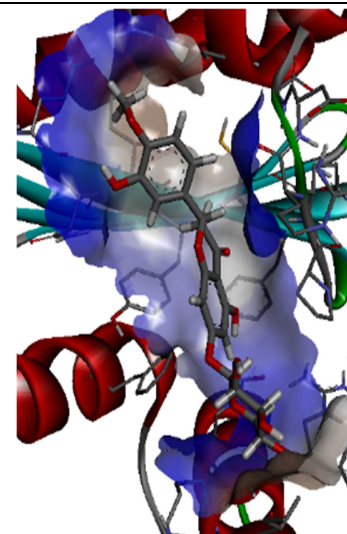
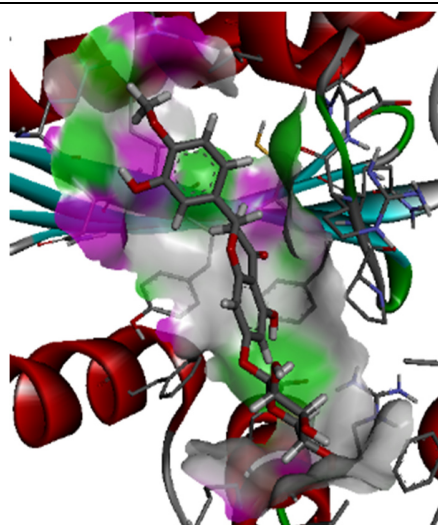
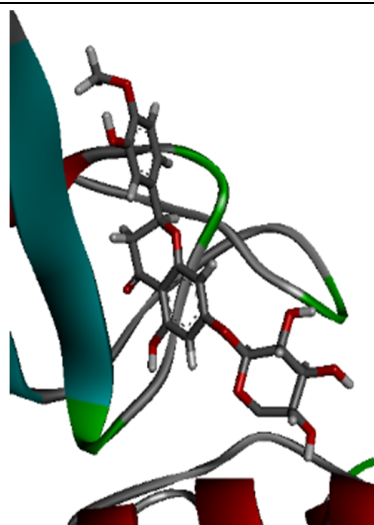
Chlorogenic Acid



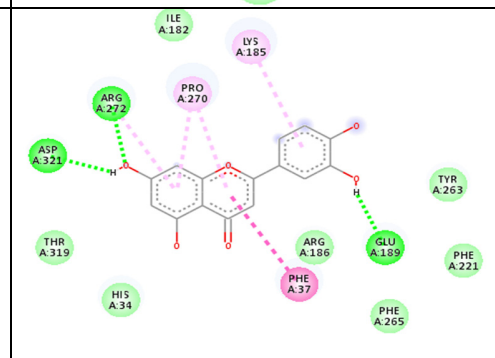
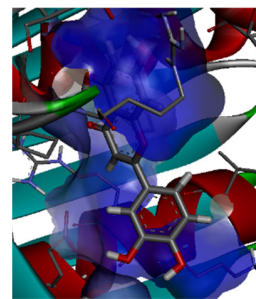
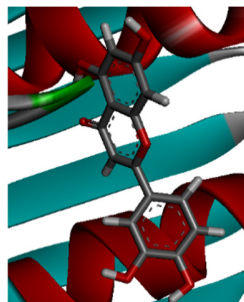
Hesperidin



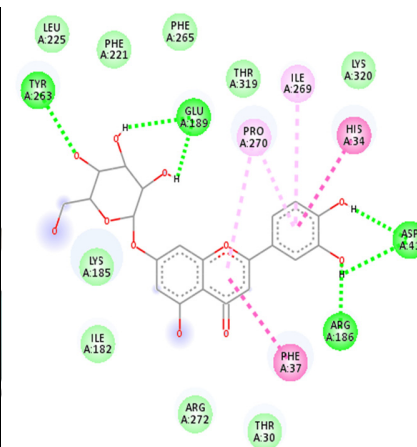
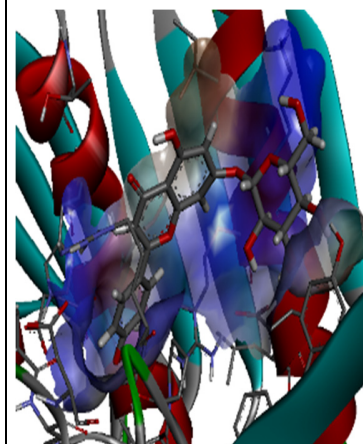
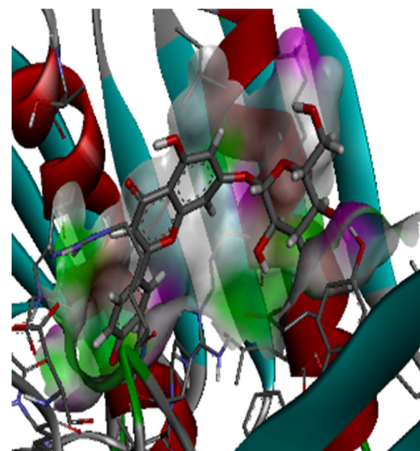
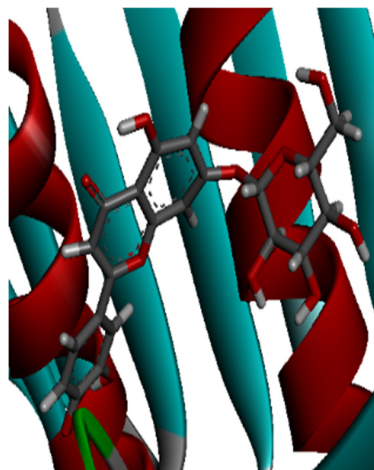
Hyperoside



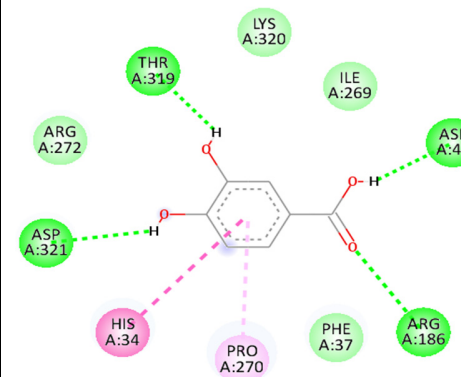
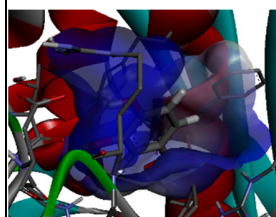
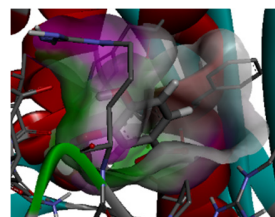
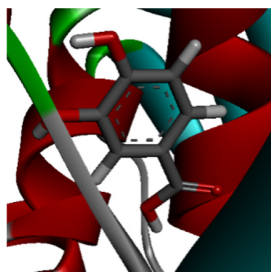
Luteolin



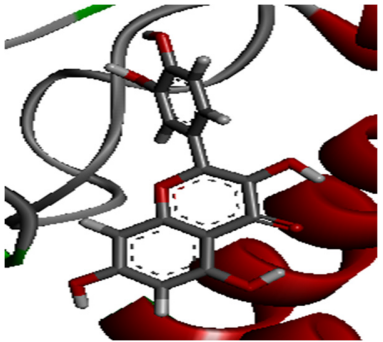
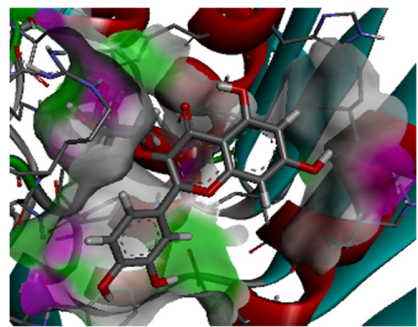
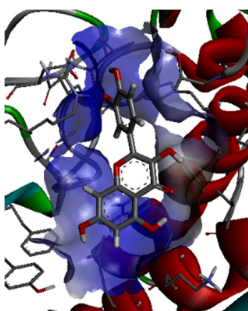
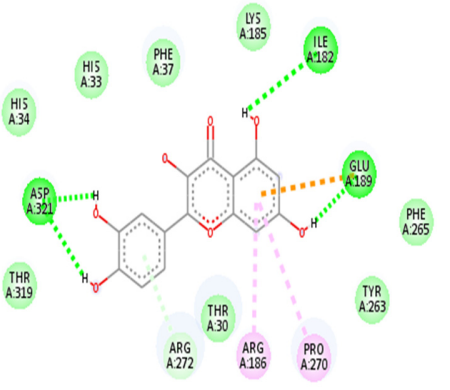
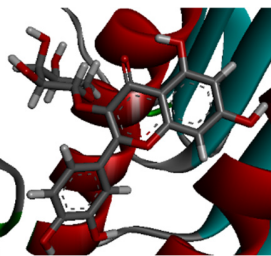
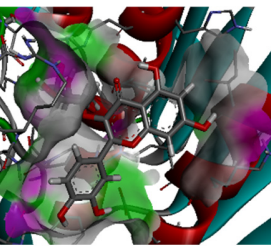
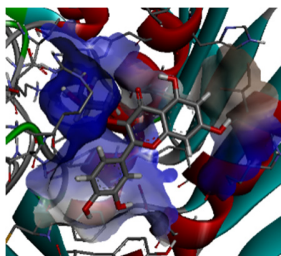
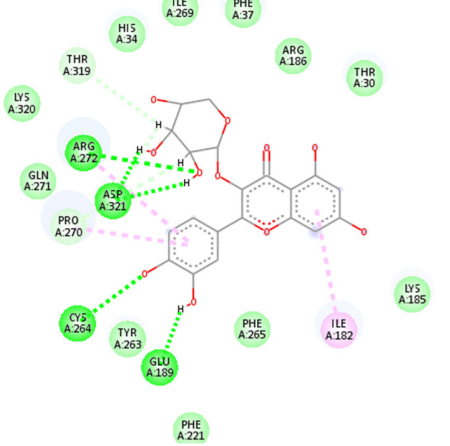
Luteoline-7-glucoside

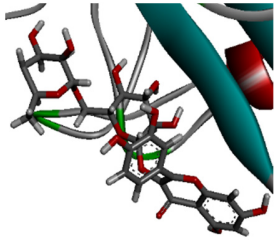
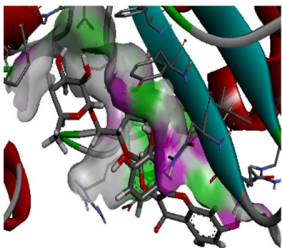
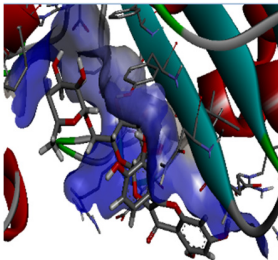
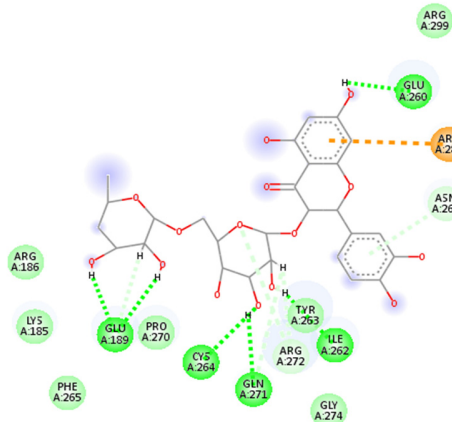
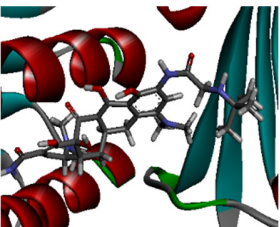
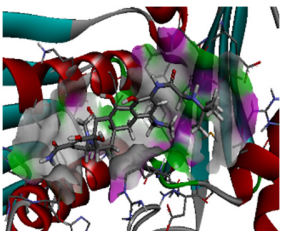
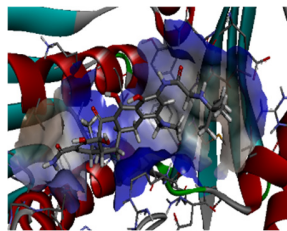
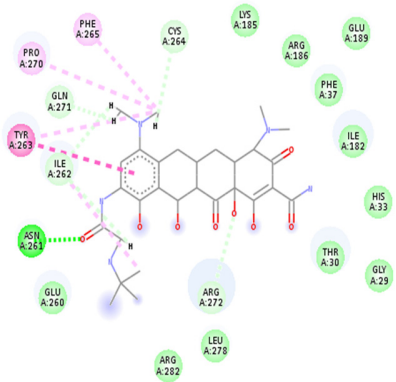


Protocatechuic Acid

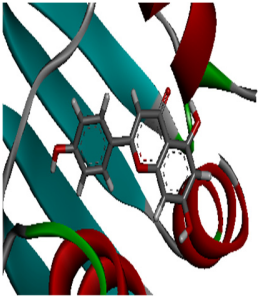
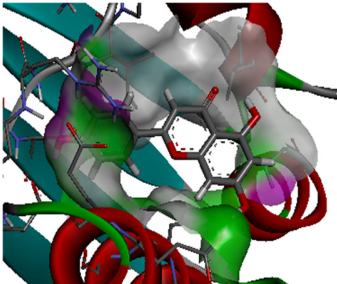
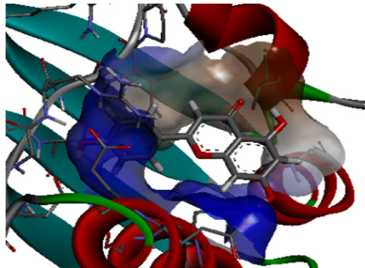
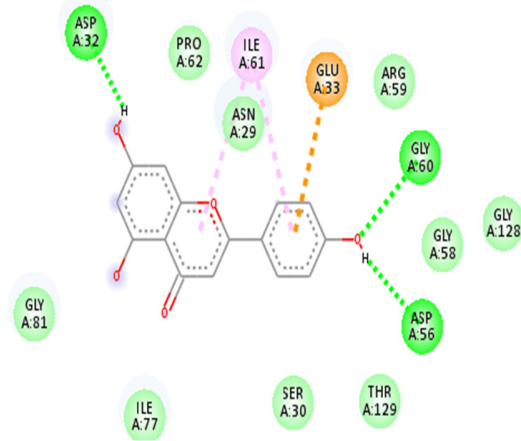
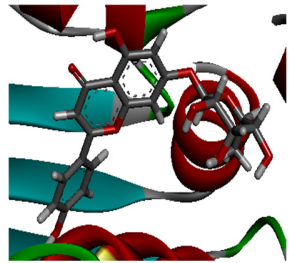
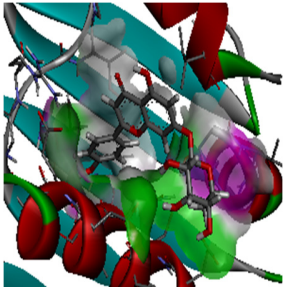
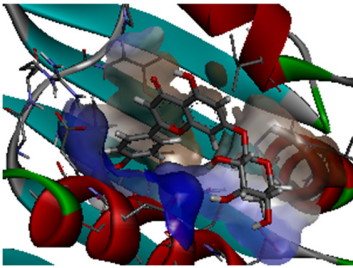
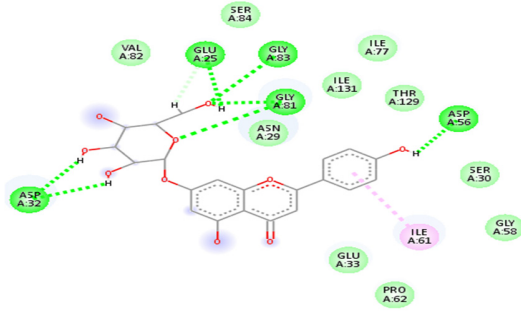




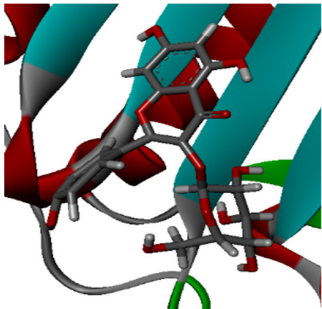
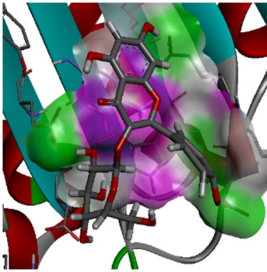
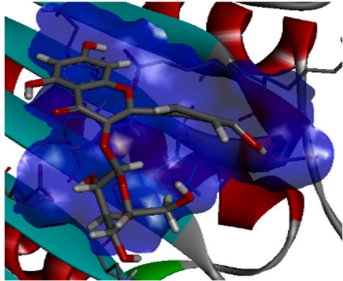
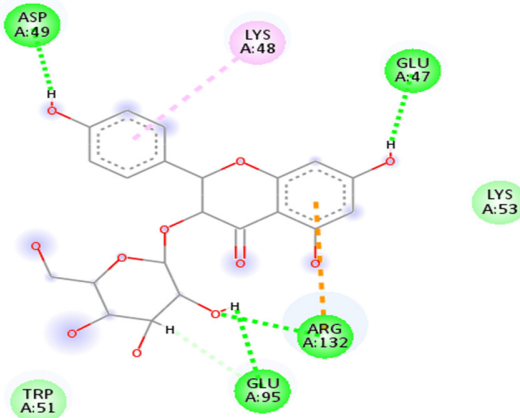
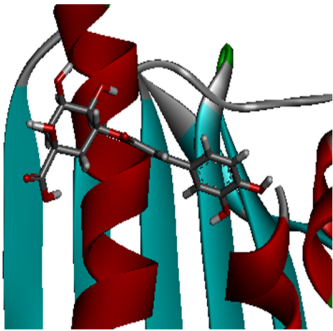
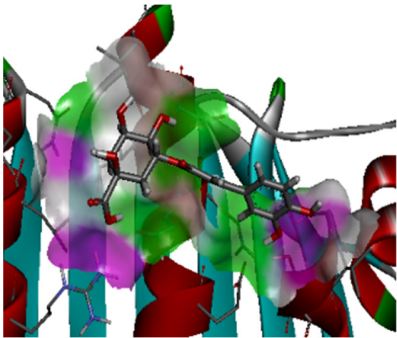
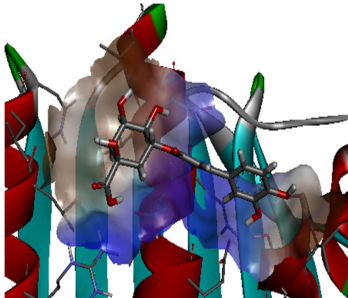
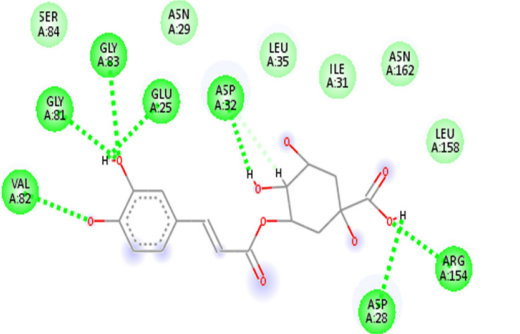
Quercetin				
Quercitrin				

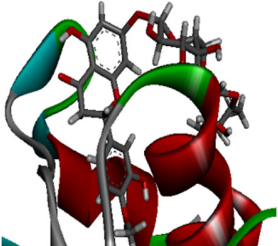
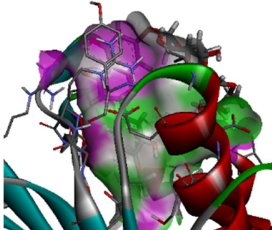
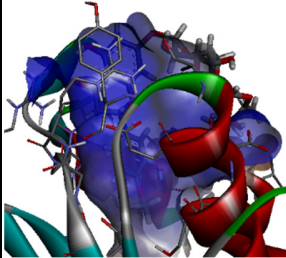
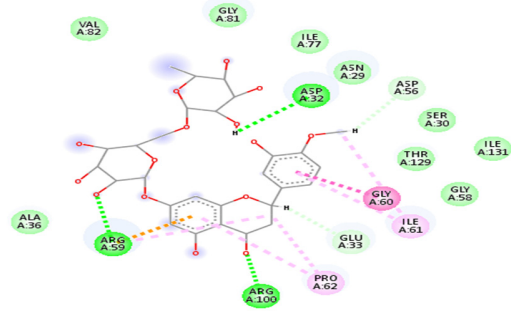

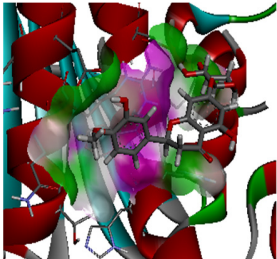
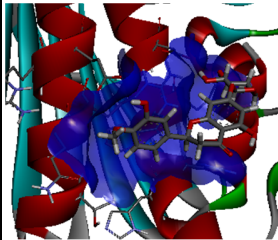
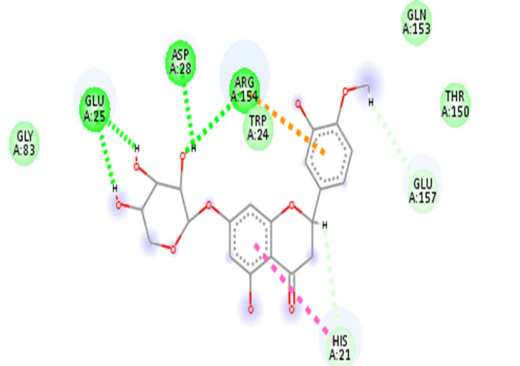
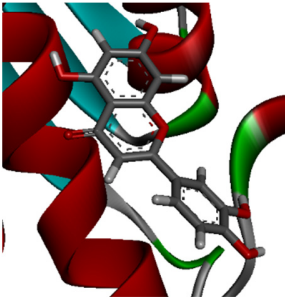
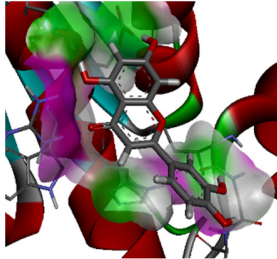
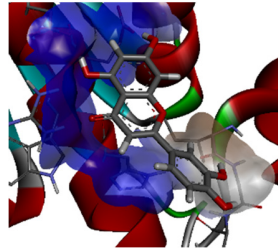
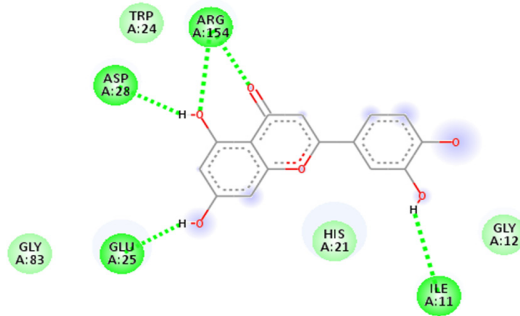
Rutin				
Tigecycline				

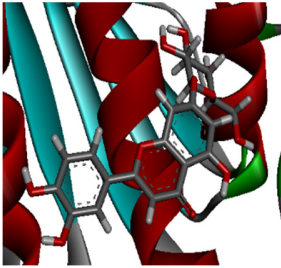
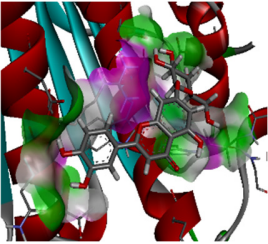
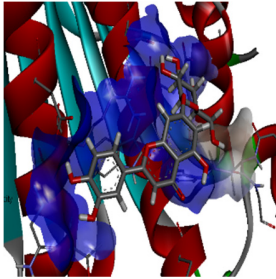
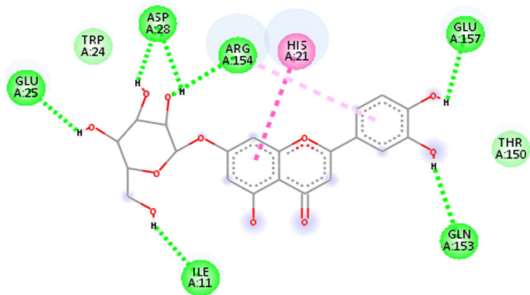
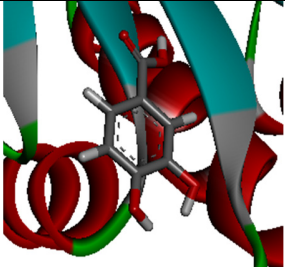
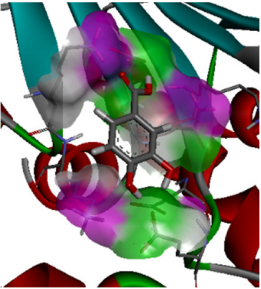
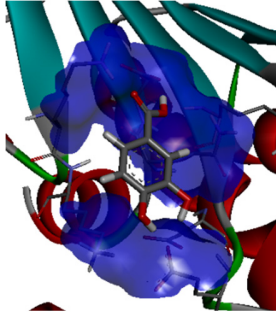
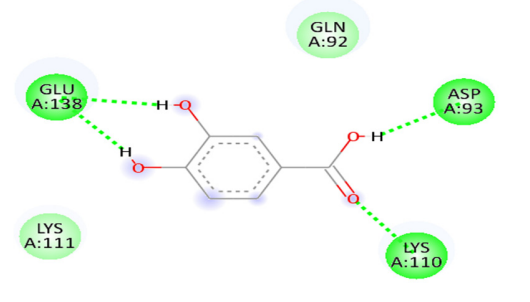
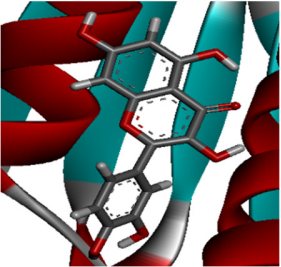
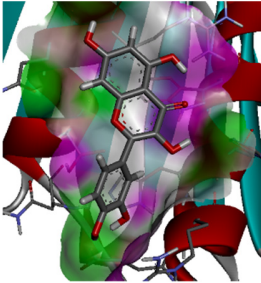
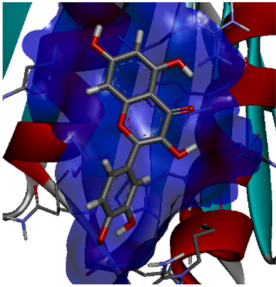
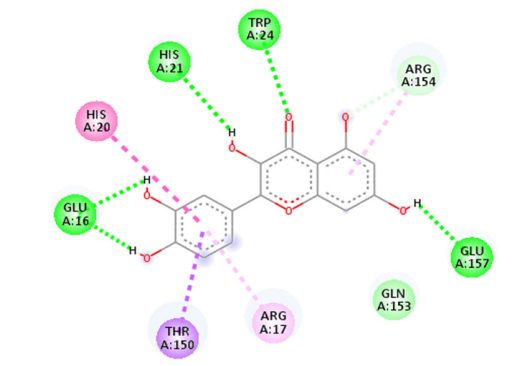
**Table S3.** Superposition and intermolecular interactions between the different ligand determined in Algerian fir and *S. aureus* 4URO protein receptor using PM7 Method

Molecule	Molecular Docking	H-Bond	Hydrophobic	Interactions
Apigenin				
Apigetrin				

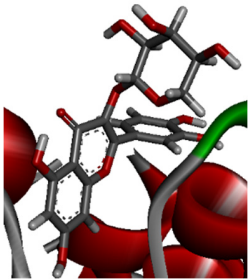
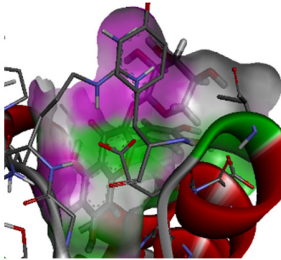
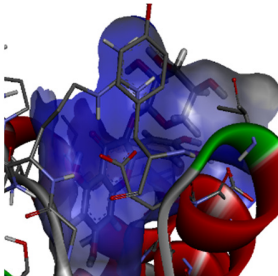
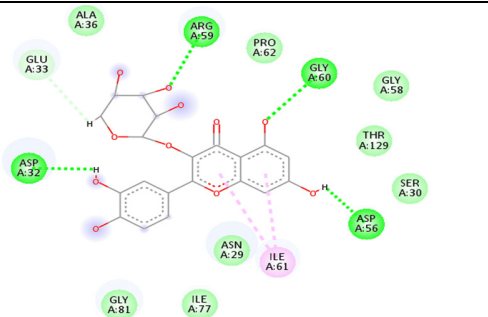
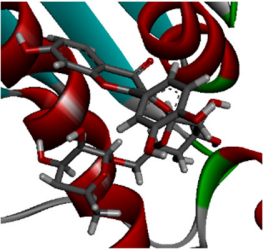
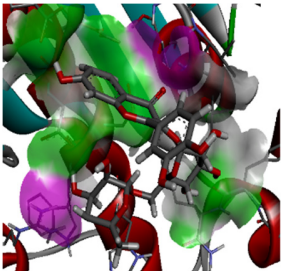
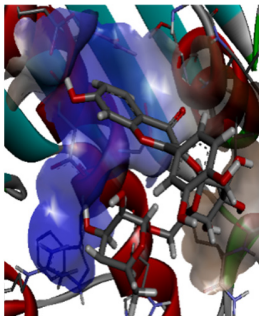
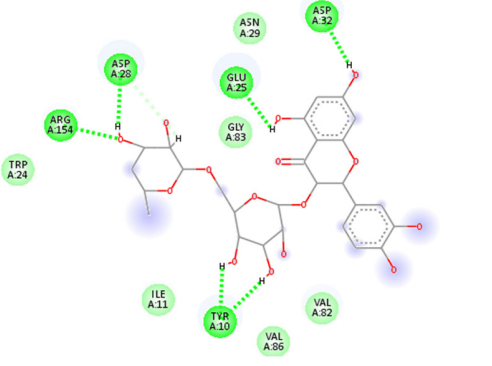


<p>Astragalin</p>				
<p>Chlorogenic Acid</p>				

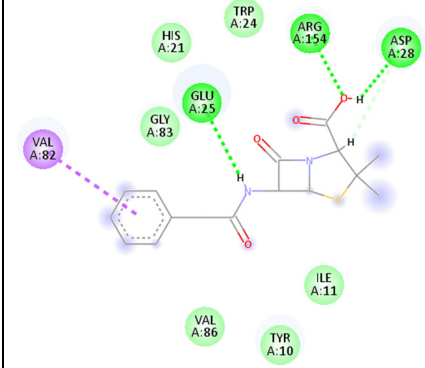
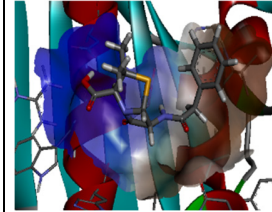
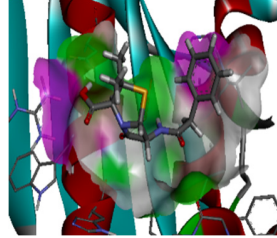
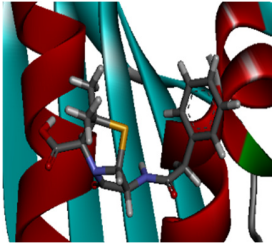
Hesperidin				
Hyperoside				
Luteolin				

<p>Luteoline-7-glucoside</p>				
<p>Protocatechuic Acid</p>				
<p>Quercetin</p>				



Quercitrin				 <p>Residues involved in Quercitrin binding: ALA A:36, GLU A:33, ASP A:32, ARG A:59, PRO A:62, GLY A:60, GLY A:58, THR A:129, SER A:30, ASP A:56, ILE A:61, ASN A:29, ILE A:77, GLY A:81.</p>
Rutin				 <p>Residues involved in Rutin binding: ASP A:25, ARG A:154, TRP A:24, ILE A:11, TRP A:10, VAL A:86, VAL A:52, ASP A:32, GLU A:25, GLY A:53.</p>

Penicillin



+: Van der Waals; +: Pi-Cation; +: Unfavorable Acceptor -Acceptor; +: Pi-Donor Hydrogen Bond; +: Pi-Sulfur; +: Pi-Sigma; +: Conventional Hydrogen Bond; +: Sulfur -X; +: Pi-Alkyl.