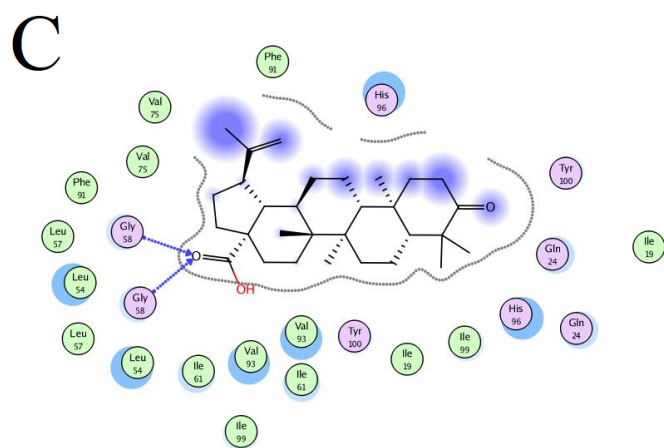
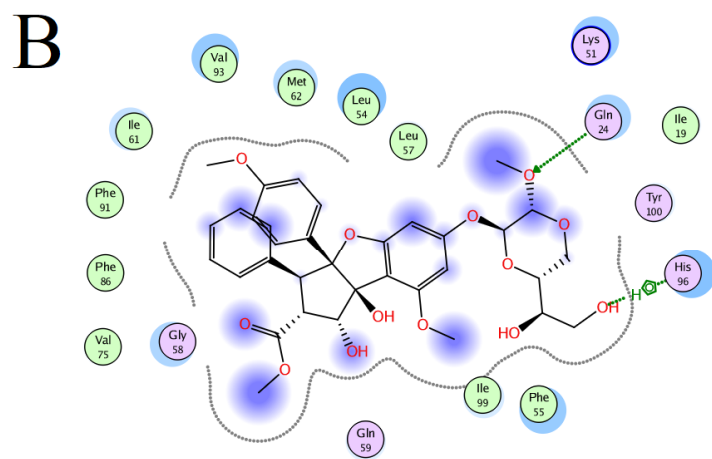
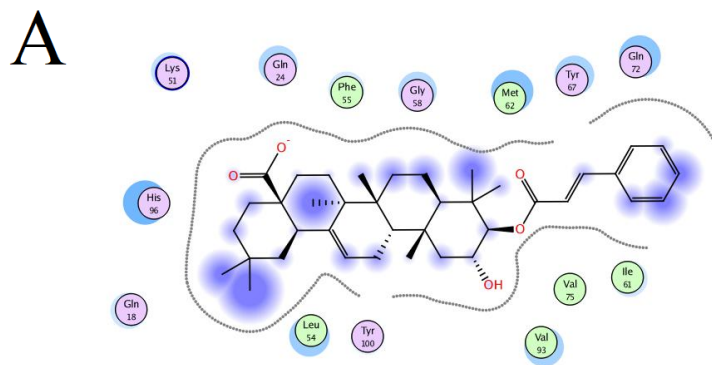
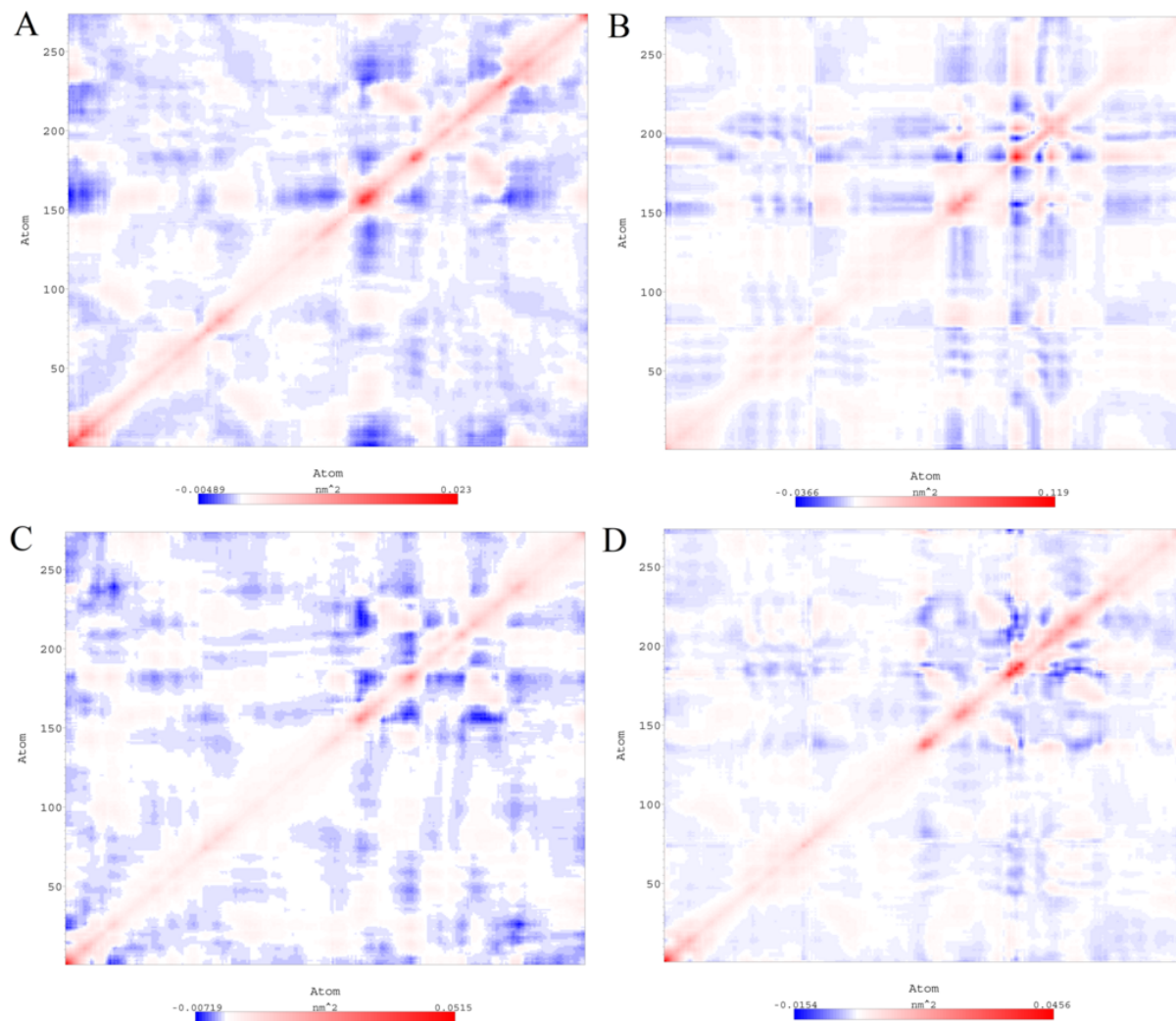


**Supplementary figure 1.** A schematic flow chart of methodology used in this study.



**Supplementary figure 2.** 2D Binding interactions of terpenes with active site residues of MDM2-P53 (A) 3-trans-p-coumaroyl maslinic acid, (B) Silvestrol and (C) Betulonic acid



**Supplementary figure 3.** Covariance matrices of all the complexes during 20 ns Simulations: (A) Reference, (B) 3-trans-p-coumaroyl maslinic acid, (C) Silvestrol and (D) Betulonic acid