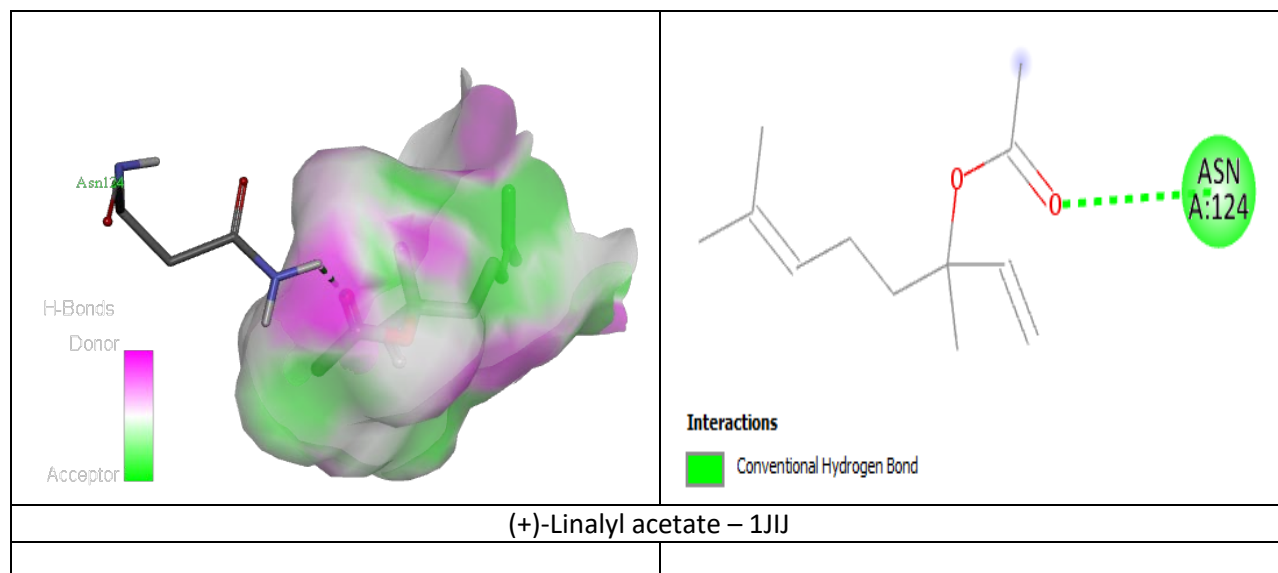
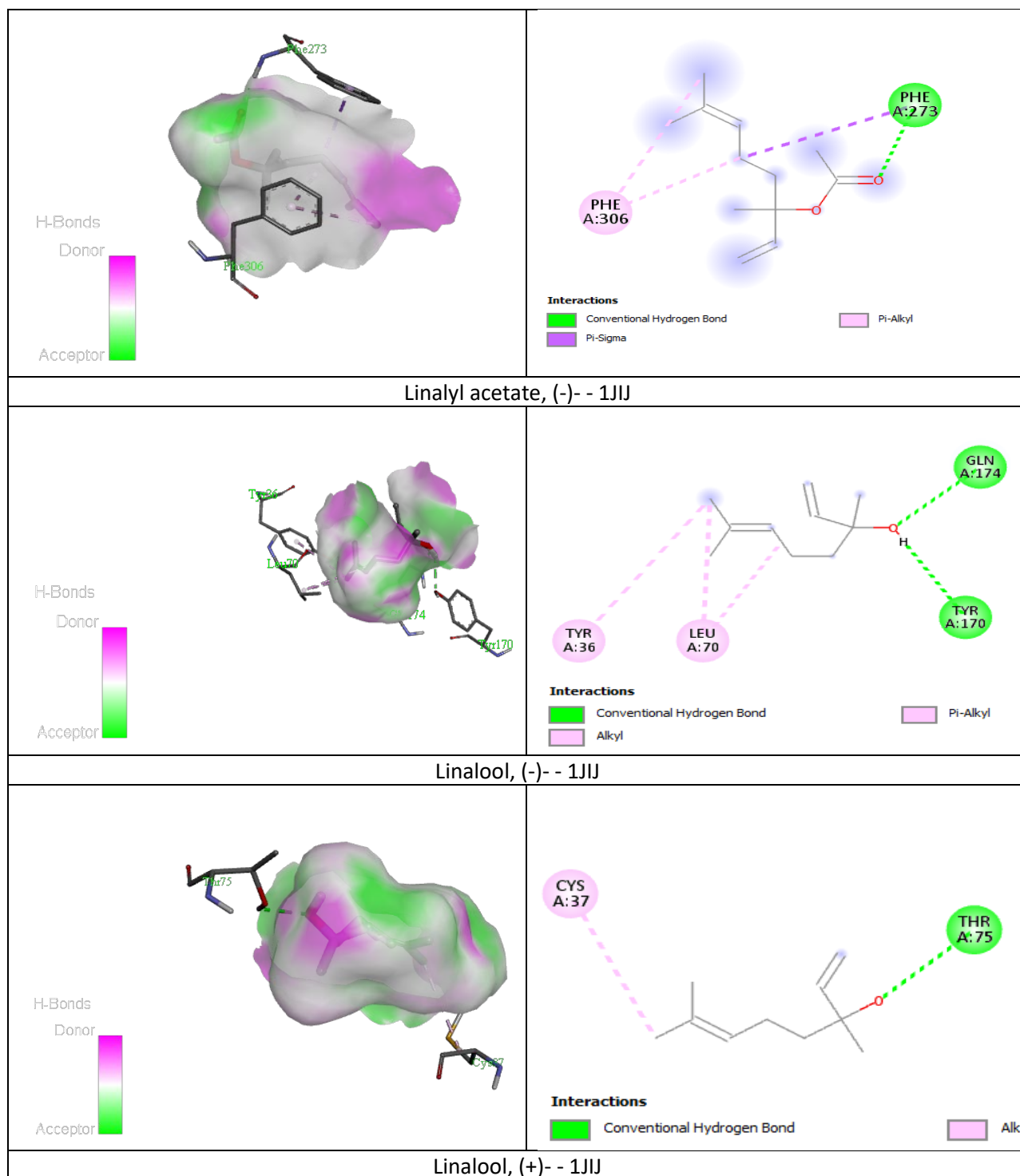


**Table S1. Interaction of the enantiomers of some chemical compounds from *Boswellia* oil with the bacterial TyrRS**

S/No	Enantiomers of chemicals compounds from frankincense oil	Binding energies (kcal/mol)	Binding interaction (1JJ + compound)
1	(-)-Camphene	-5.5	<b>Pi-Alkyl:</b> PHE273, PHE306
2	(+)-Camphene	-5.6	Nil
3	(+)-Linalyl acetate	<b>-5.8</b>	<b>H:</b> ASN124
4	Linalyl acetate, (-)-	<b>-5.2</b>	<b>H:</b> PHE273 <b>Pi-Sigma:</b> PHE273 <b>Pi-Alkyl:</b> PHE306
5	alpha-Pinene, (-)-	-8.2	<b>Pi-Alkyl:</b> PHE273, PHE306
6	alpha-Pinene, (+)-	-8.2	Nil
7	beta-Pinene, (-)-	-8.2	Nil
8	beta-Pinene, (+)-	-8.2	Nil
9	Linalool, (-)-	<b>-5.1</b>	<b>H:</b> TYR170, GLN174 <b>Alkyl/Pi-Alkyl:</b> TYR36, LEU70
10	Linalool, (+)-	<b>-5.4</b>	<b>H:</b> THR75 <b>Alkyl:</b> CYS37
11	D-Limonene	-5.8	<b>Alkyl:</b> CYS37, LEU70, ILE200

**Figure S1. 3D and 2D display of some of the interaction between the enantiomers of the chemical compounds from *Boswellia* oil and bacterial TyrRS**

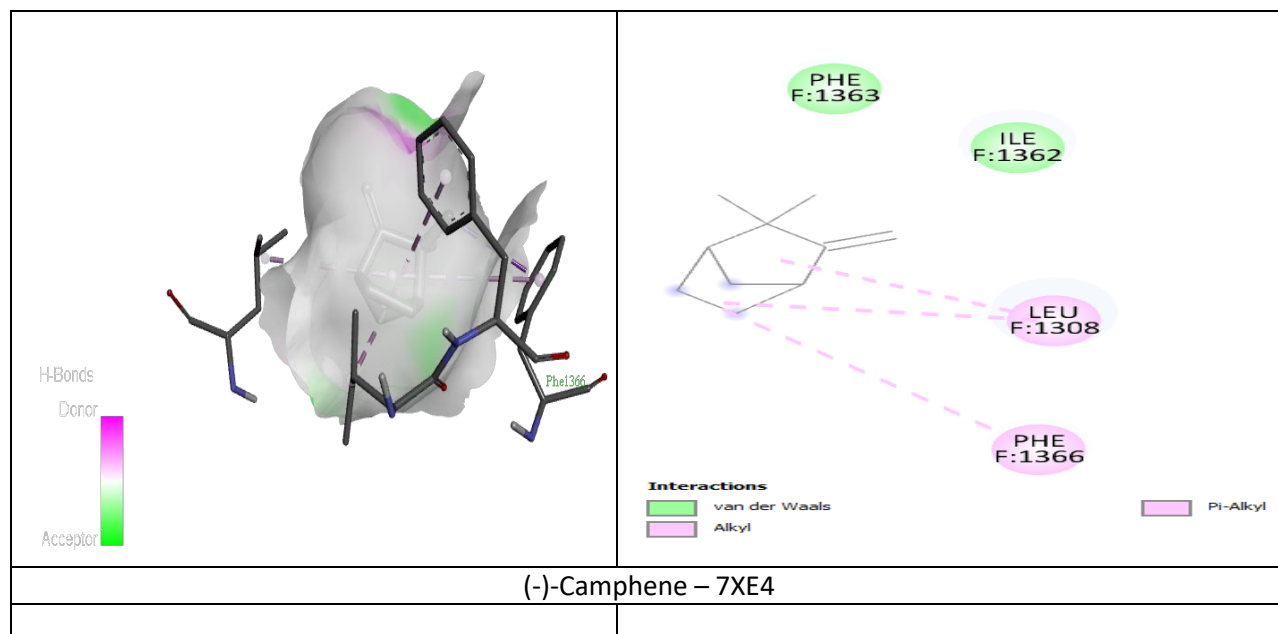


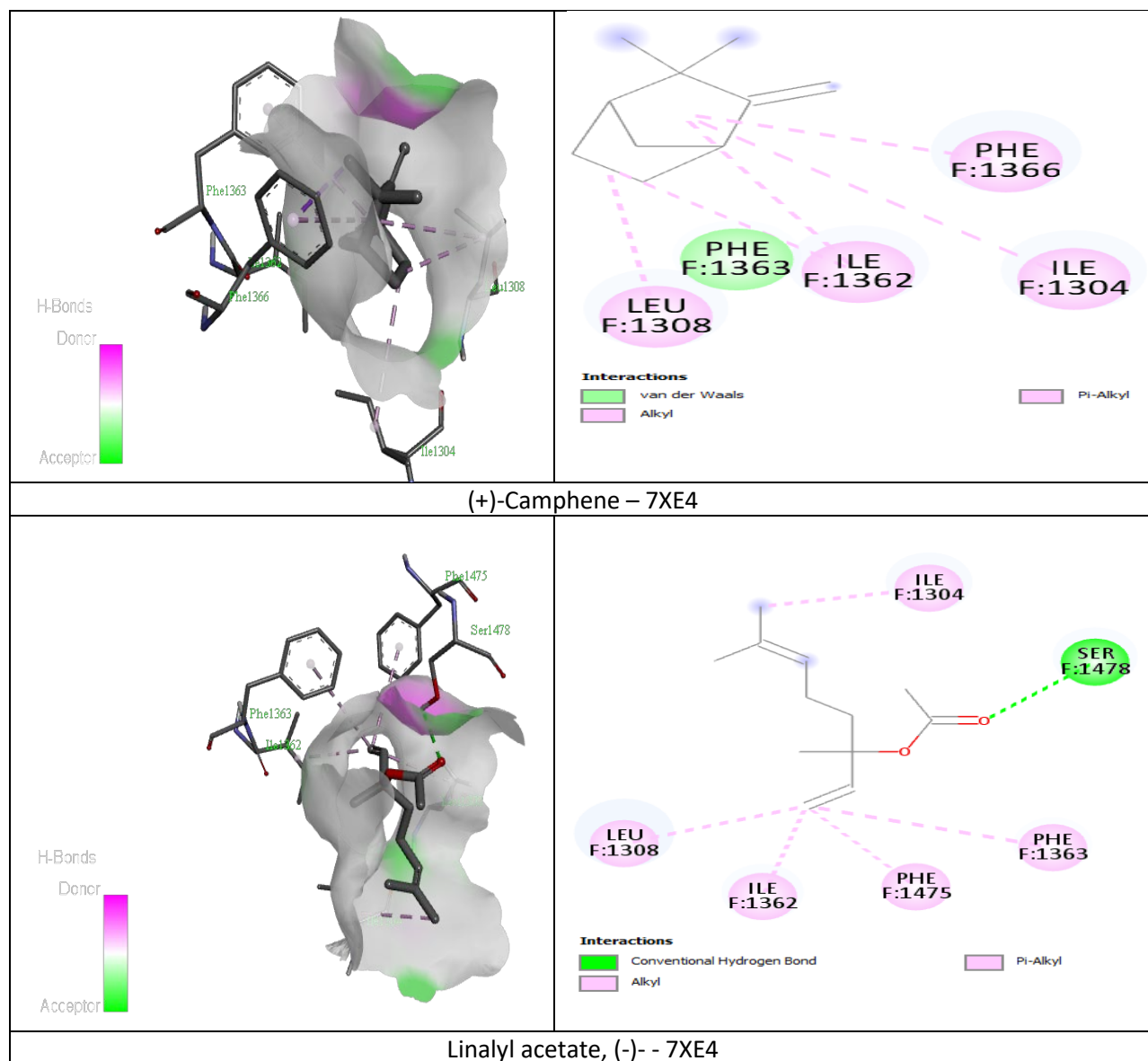


**Table S2. Interaction of the enantiomers of some chemical compounds from *Boswellia* oil with the fungal 1,3- $\beta$ -glucan synthase**

S/No	Enantiomers of chemicals compounds from frankincense oil	Binding energies (kcal/mol)	Binding interaction (7XE4 + compound)
1	(-)-Camphene	-6.1	Van der Waals: ILE1362, ILE1363 Alkyl/Pi-Alkyl: LEU1308, PHE1366
2	(+)-Camphene	-6.3	Van der Waals: PHE1363 Alkyl/Pi-Alkyl: ILE1304, LEU1308, ILE1362, PHE1366
3	(+)-Linalyl acetate	-5.7	Pi-Sigma: PHE1366 Alkyl: ILE1304, LEU1308
4	Linalyl acetate, (-)-	-5.3	H: SER1478 Alkyl/Pi-Alkyl: ILE1304, LEU1308, ILE1362, PHE1366, PHE1475
5	alpha-Pinene, (-)-	-8.3	Nil
6	alpha-Pinene, (+)-	-8.4	Nil
7	beta-Pinene, (-)-	-8.4	Nil
8	beta-Pinene, (+)-	-8.4	Nil
9	Linalool, (-)-	-4.7	Alkyl/Pi-Alkyl: ILE1304, PHE1366, PHE1370
10	Linalool, (+)-	-4.9	Alkyl/Pi-Alkyl: ILE1304, LEU1308, PHE1363, PHE1366, PHE1370, PHE1475, LEU1479
11	D-Limonene	-5.8	Pi-Sigma: PHE1366 Alkyl/Pi-Alkyl: ILE1304, LEU1308, ILE1362, PHE1363

**Figure S2. 3D and 2D display of some of the interaction between the enantiomers of the chemical compounds from *Boswellia* oil and fungal 1,3- $\beta$ -glucan synthase**



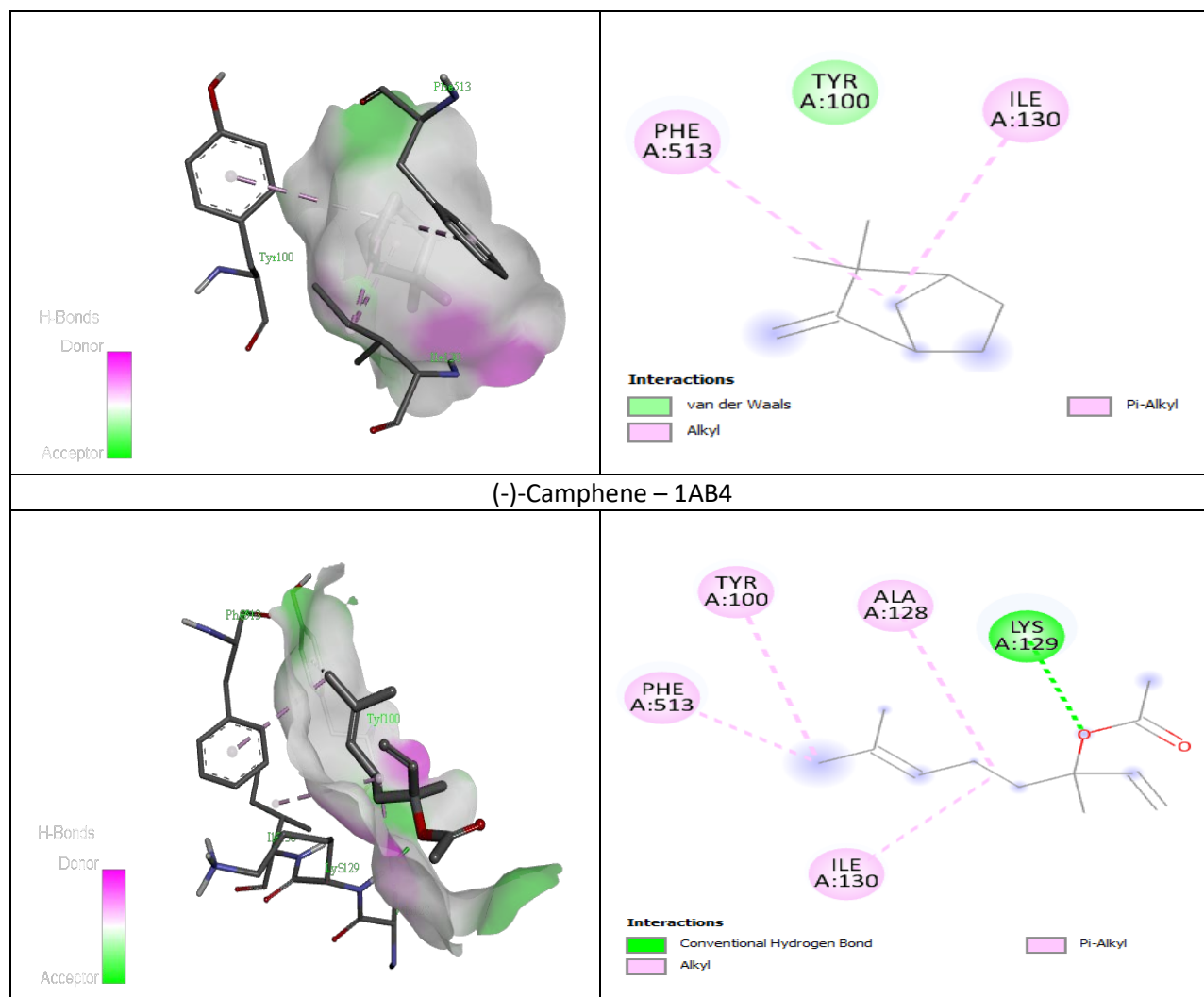


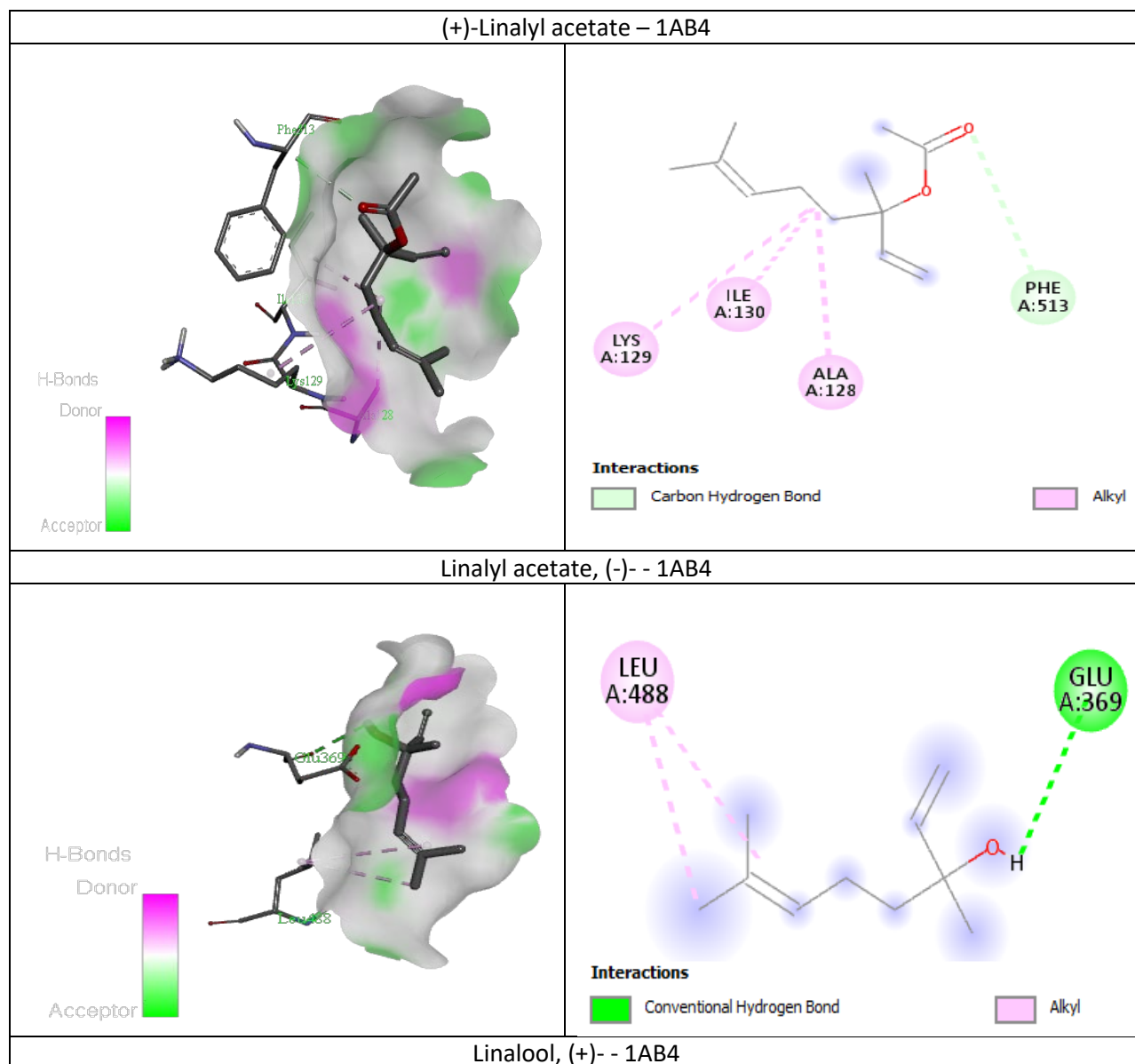
**Table S3. Interaction of the enantiomers of some chemical compounds from *Boswellia* oil with the bacterial DNA gyrase**

S/No	Enantiomers of chemicals compounds from frankincense oil	Binding energies (kcal/mol)	Binding interaction (1AB4 + compound)
1	(-)-Camphene	-5.0	Van der Waals: TYR100 Alkyl/Pi-Alkyl: ILE130, PHE513
2	(+)-Camphene	-5.6	Nil
3	(+)-Linalyl acetate	-4.7	H: LYS129 Alkyl/Pi-Alkyl: TYR100, ALA128, ILE130, PHE513

4	Linalyl acetate, (-)-	-5.0	C-H: PHE513 Alkyl: ALA128, LYS129, ILE130
5	alpha-Pinene, (-)-	-6.7	Nil
6	alpha-Pinene, (+)-	-8.0	Nil
7	beta-Pinene, (-)-	-8.0	Nil
8	beta-Pinene, (+)-	-8.0	Nil
9	Linalool, (-)-	-4.7	Pi-Alkyl:TYR266
10	Linalool, (+)-	-4.9	H: GLU369 Alkyl: LEU488
11	D-Limonene	-5.2	Alkyl/Pi-Alkyl: TYR100, ALA128, ILE130, PHE513

**Figure S3. 3D and 2D display of some of the interaction between the enantiomers of the chemical compounds from *Boswellia* oil and bacterial DNA gyrase**





**Table S4.** Interaction of the enantiomers of some chemical compounds from *Boswellia* oil with the bacterial peptide deformylase

S/No	Enantiomers of chemicals compounds from frankincense oil	Binding energies (kcal/mol)	Binding interaction (1IX1 + compound)
1	(-)-Camphene	-5.1	Nil
2	(+)-Camphene	-5.3	Nil
3	(+)-Linalyl acetate	<b>-5.3</b>	H: ILE45, GLY46 C-H: GLY44 Alkyl/Pi-Alkyl: TYR88, LEU127, VAL130

4	Linalyl acetate, (-)-	-5.4	H: ARG115 Alkyl/Pi-Alkyl: ARG71, PHE73,PHE120
5	alpha-Pinene, (-)-	-6.9	Nil
6	alpha-Pinene, (+)-	-6.9	Nil
7	beta-Pinene, (-)-	-6.9	Nil
8	beta-Pinene, (+)-	-6.9	Nil
9	Linalool, (-)-	-5.7	H: ILE45, GLY46 Alkyl/Pi-Alkyl: CYS92, LEU93, LEU127, VAL130, CYS131, HIS134
10	Linalool, (+)-	-5.6	Unfavorable Donor-Donor: GLY46 Alkyl/Pi-Alkyl: ILE45, LEU93, LEU127, VAL130, CYS131, HIS134
11	D-Limonene	-5.4	Alkyl/Pi-Alkyl: ILE45, LEU93, CYS131, HIS134

**Figure S4. 3D and 2D display of some of the interaction between the enantiomers of the chemical compounds from *Boswellia* oil and bacterial peptide deformylase**

