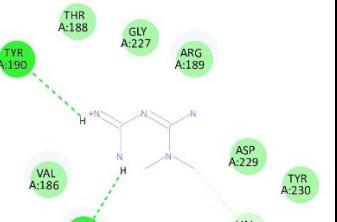
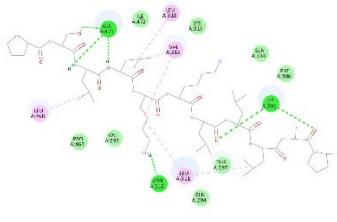
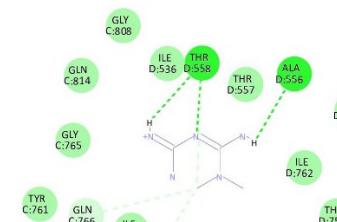
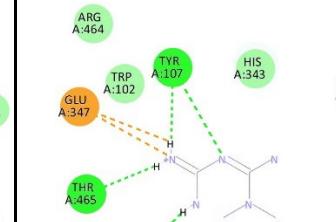
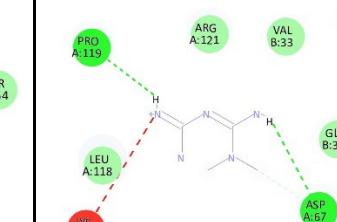
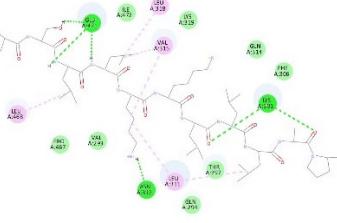
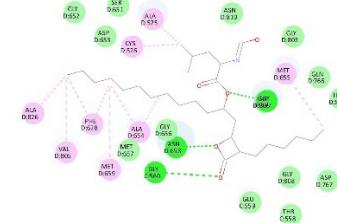


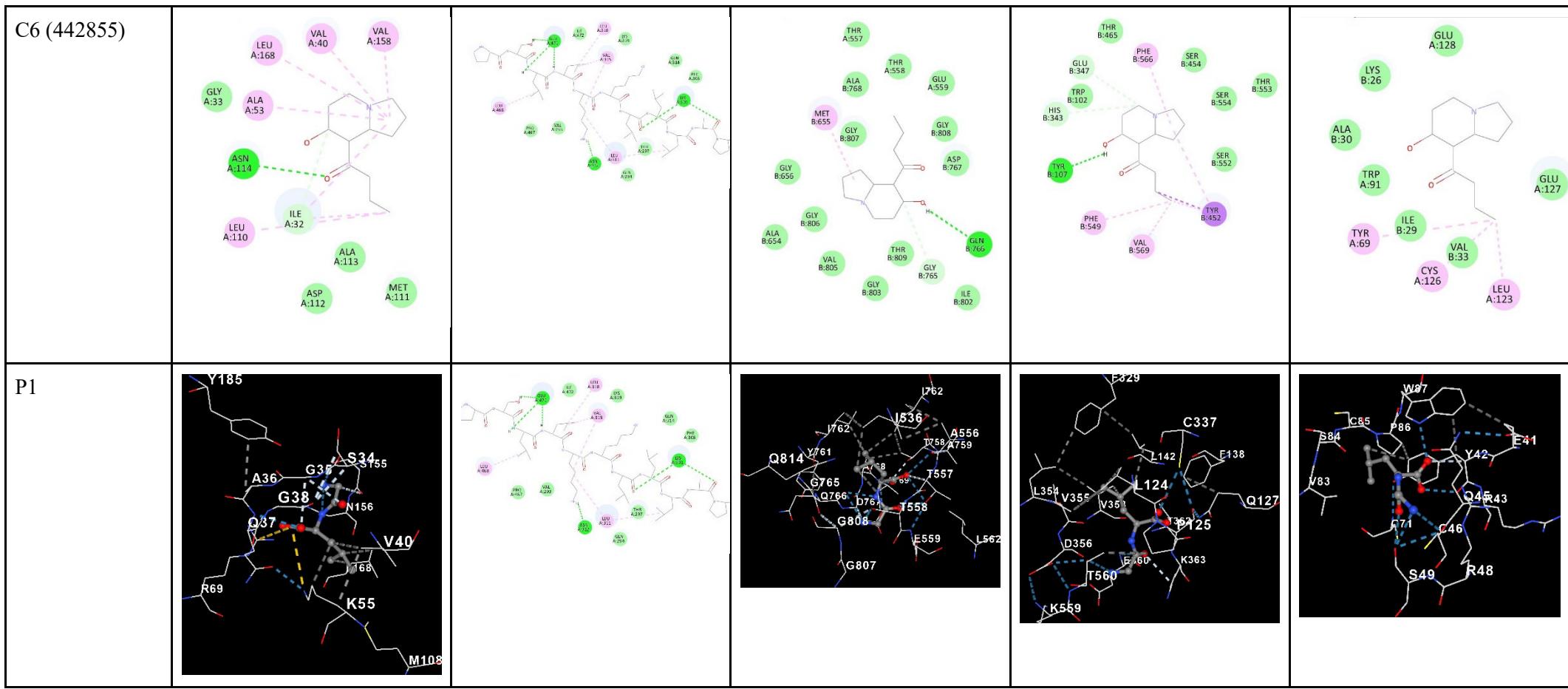
Tabel S1. Compounds and Peptides SMILE Canonical from FOE

Compounds	Compounds	SMILES Canonical
C1	p-Cresol	CC1=CC=C(C=C1)O
C2	4-Fluorophenol	C1=CC(=CC=C1O)F
C3	Guvacine	C1CNCC(=C1)C(=O)O
C4	Furaneol	CC1C(=O)C(=C(O1)C)O
C5	p-cymene	CC1=CC=C(C=C1)C(C)C
C6	Elaeokanine C	CCCC(=O)C1C2CCCN2CCC1O
C7	Flavokawain A	CO C1=CC=C(C=C1)C=CC(=O)C2=C(C=C(C=C2OC)OC)O
C8	3-hydroxy-3,4-bis[(4-hydroxy-3-methoxyphenyl)methyl]oxolan-2-one	CO C1=C(C=CC(=C1)CC2CO C(=O)C2(CC3=CC(=C(C=C3)O)OC)O)O
C9	Euparin	CC(=C)C1=CC2=CC(=C(C=C2O1)O)C(=O)C
C10	Eleutherol	CC1C2=C(C=C3C=CC=C(C3=C2O)OC)C(=O)O1

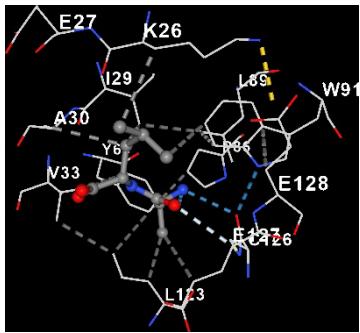
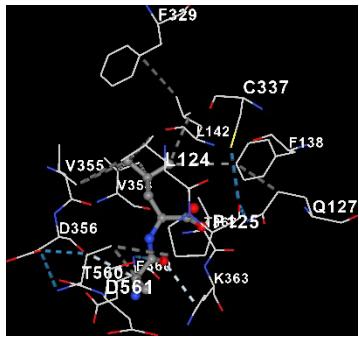
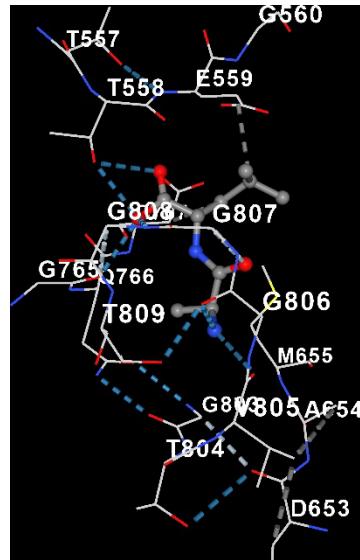
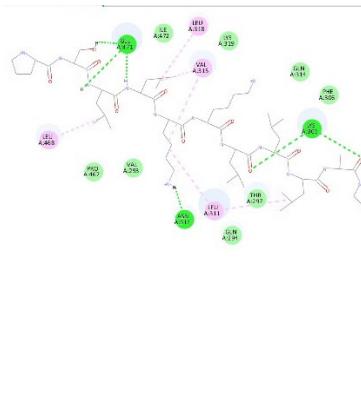
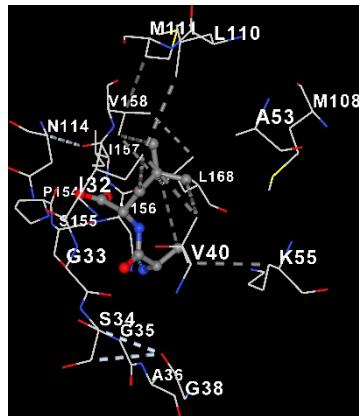
Peptides No	Peptides	SMILES Canonical
P1	Gly-Leu	CC(C)CC(C(=O)O)NC(=O)CN
P2	Ala-Leu	CC(C)CC(C(=O)O)NC(=O)C(C)N
P3	Val-Ser	CC(C)C(C(=O)NC(CO)C(=O)O)N
P4	Gly-Phe	C1=CC=C(C=C1)CC(C(=O)O)NC(=O)CN
P5	Ala-Phe	CC(C(=O)NC(CC1=CC=CC=C1)C(=O)O)N
P6	Asp-leu	CC(C)CC(C(=O)O)NC(=O)C(CC(=O)O)N
P7	Val-Met	CC(C)C(C(=O)NC(CCSC)C(=O)O)N
P8	Ala-Tyr	CC(C(=O)NC(CC1=CC=C(C=C1)O)C(=O)O)N
P9	Lys-Leu	CC(C)CC(C(=O)O)NC(=O)C(CCCCN)N
P10	Arg-Leu	CC(C)CC(C(=O)O)NC(=O)C(CCCN=C(N)N)N
P11	Arg-Glu	C(CC(C(=O)NC(CCC(=O)O)C(=O)O)N)CN=C(N)N

Table S2. Full Visualization of Amino Acid Interaction of FOE Properties against MAPK8, PPARG, HMGCR, CPT-1, and GLP-1

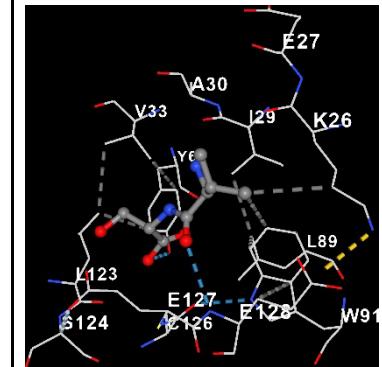
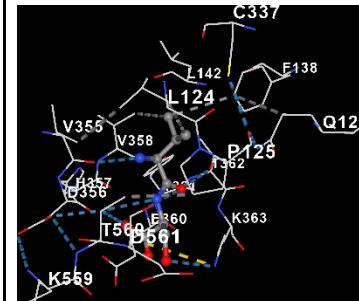
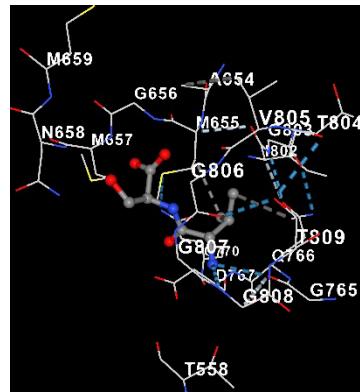
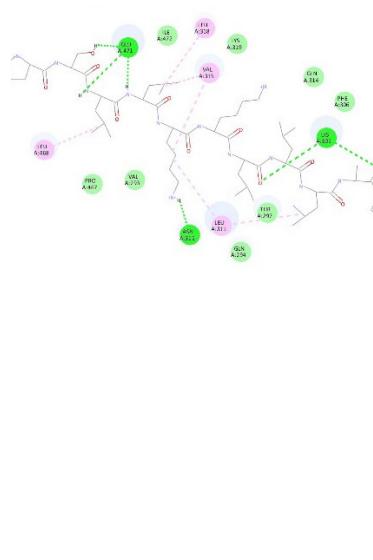
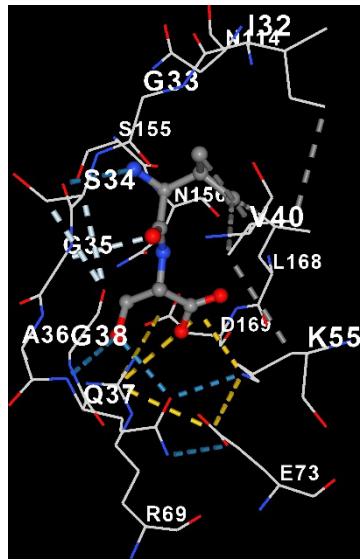
Compounds/Peptides and Control as Ligands	MAPK8 (3ELJ)	PPARG (8BF1)	HMGCR (2R4F)	CPT-1 (1NDB)	GLP-1 (4ZGM)
Control Metformin (4901)					
Control Orlistat (3034010)					



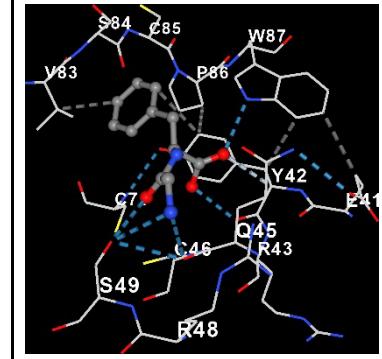
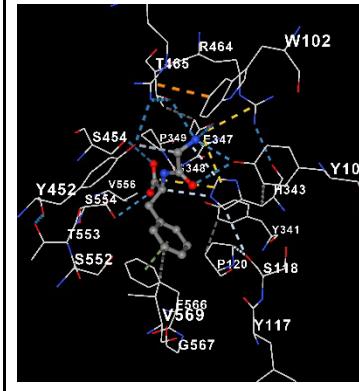
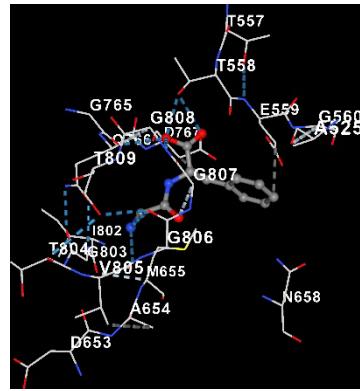
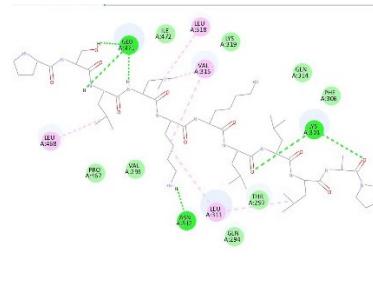
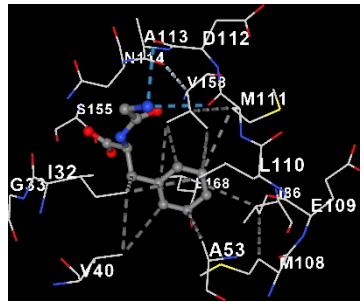
P2



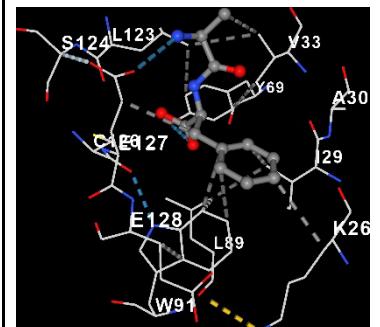
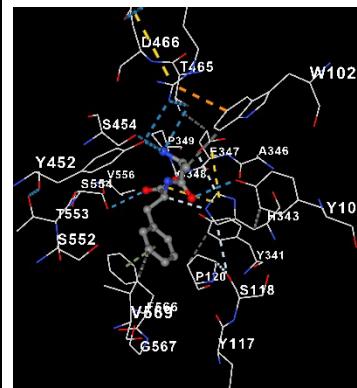
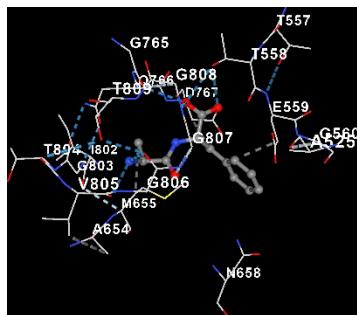
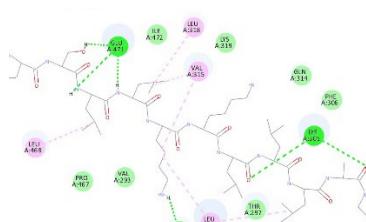
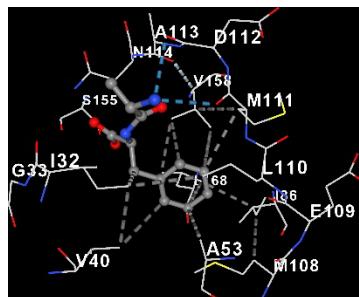
P3



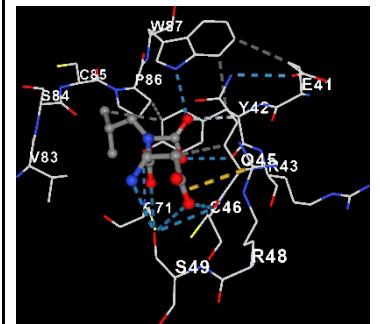
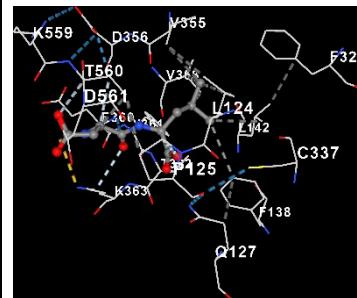
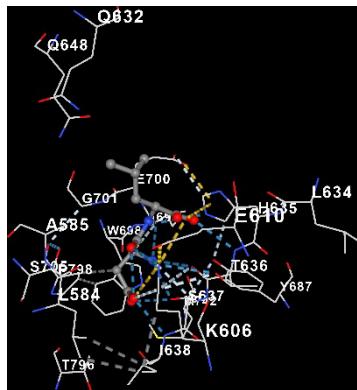
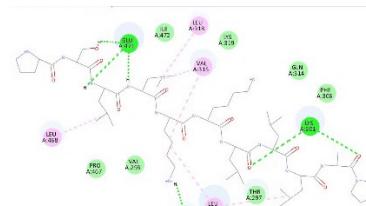
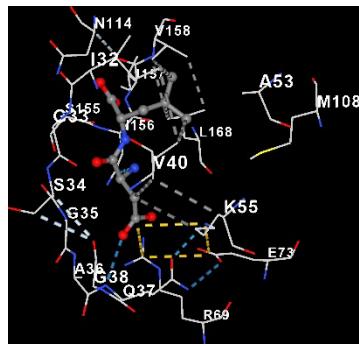
P4



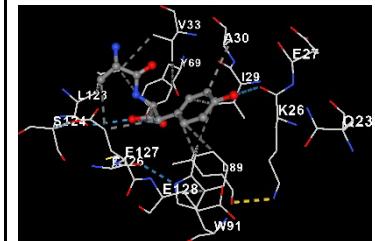
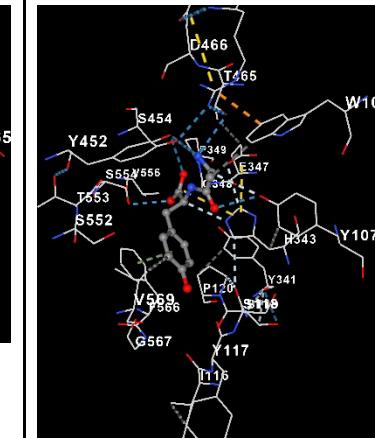
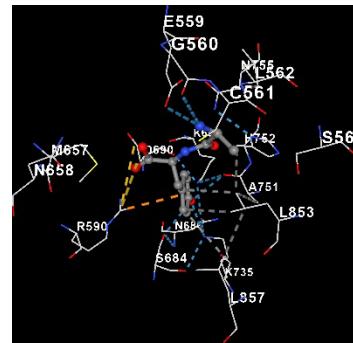
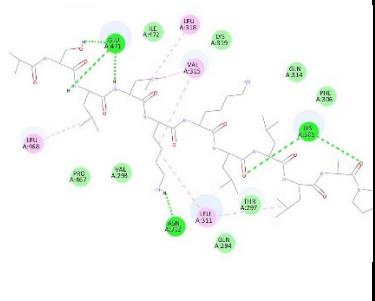
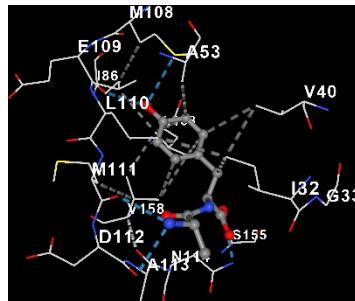
P5



P6



P8



P9

