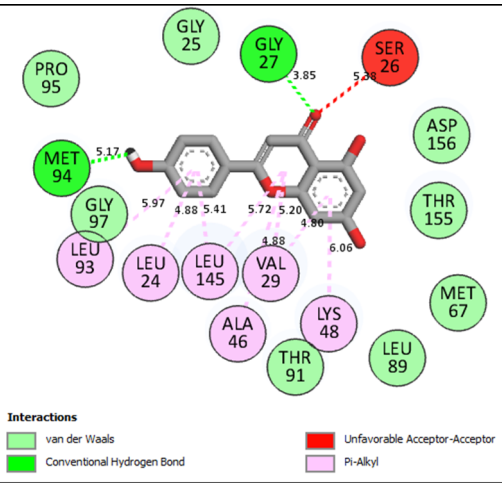
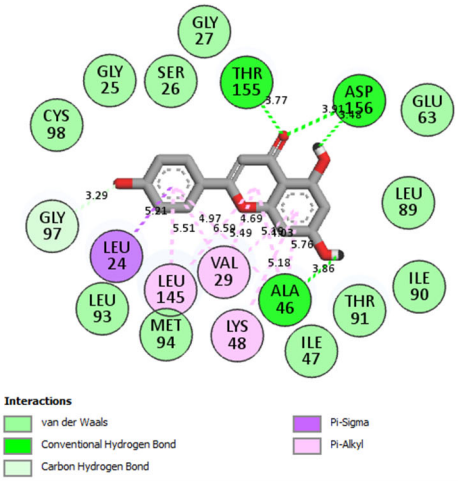
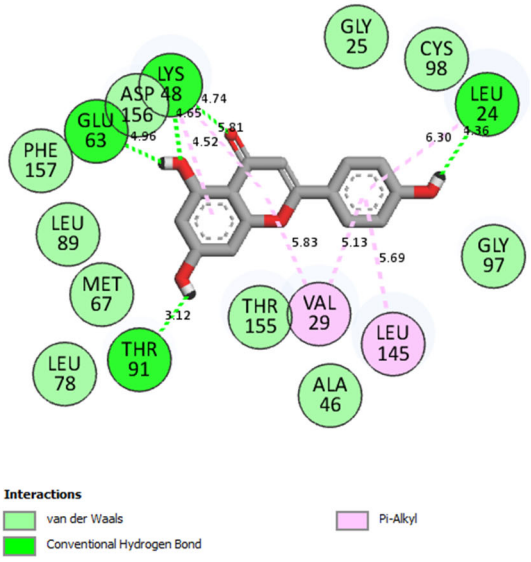
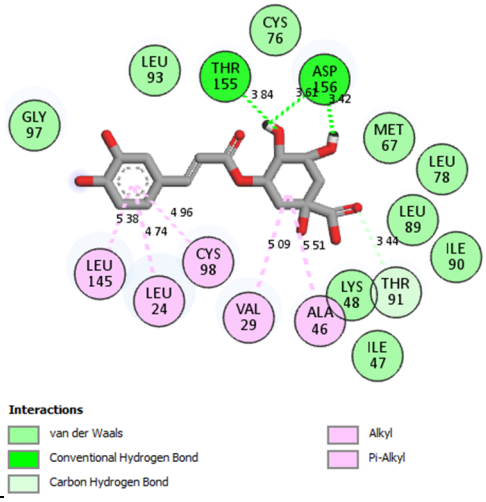
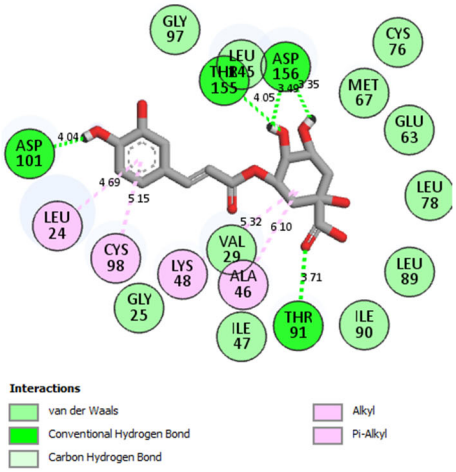
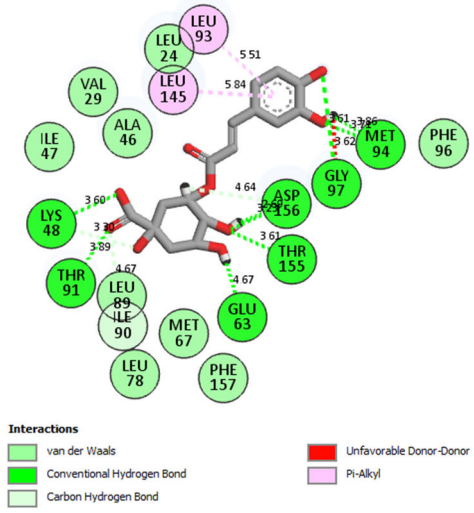
Supplementary data

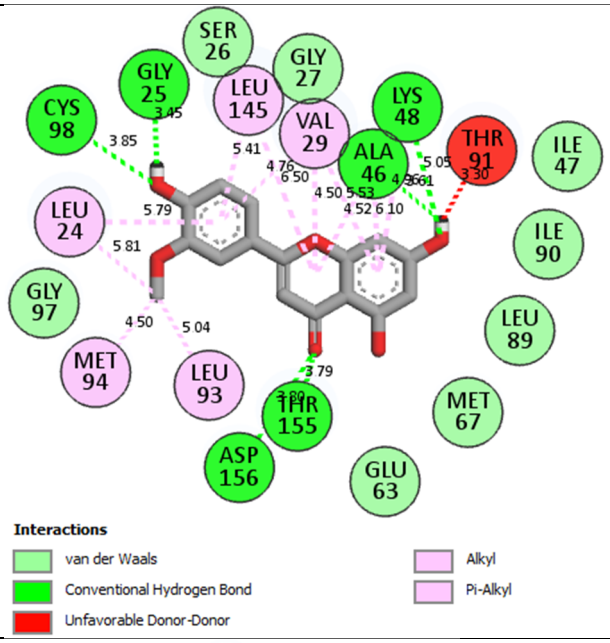
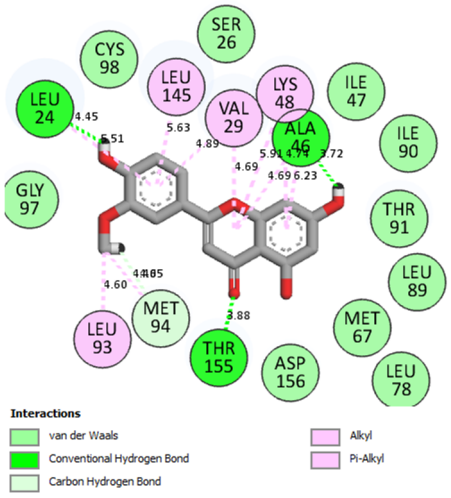
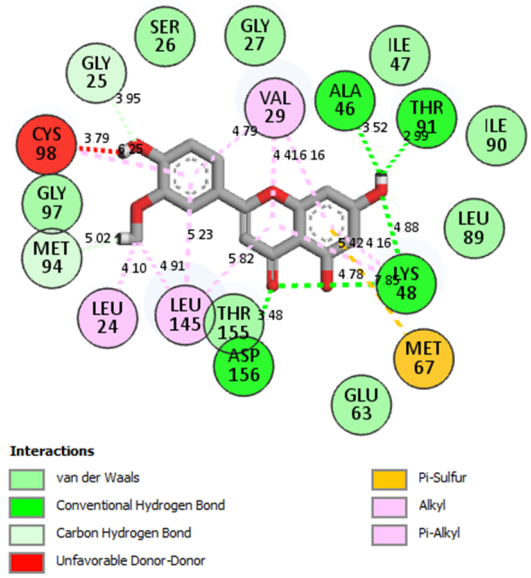
Table S1. Complete list of rooibos compounds investigated and details of Lipinski's violation

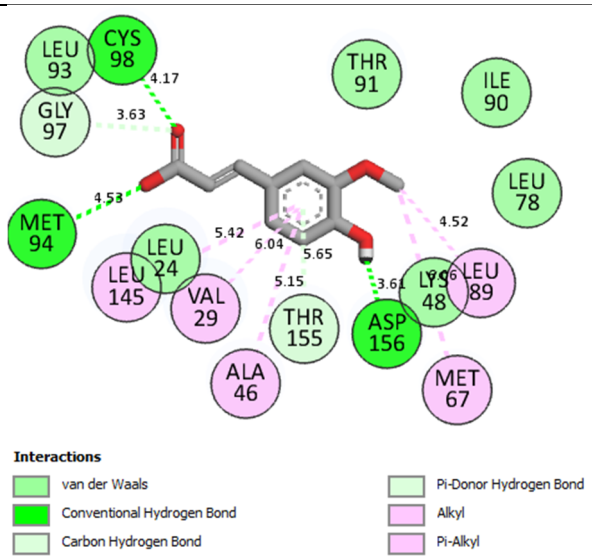
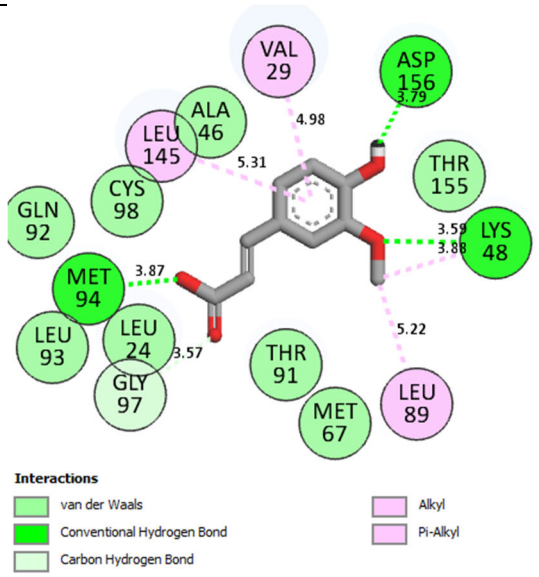
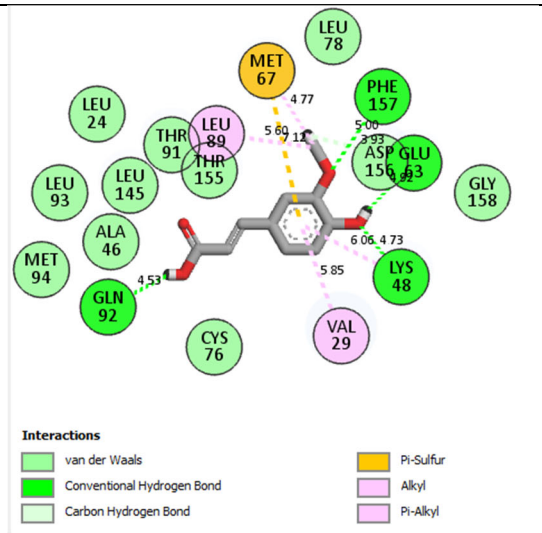
S/N	Compounds	Passed Lipinski's/ no of violations	The 13 compounds
1	(+)-catechin	Yes	**1**
2	Apigenin	Yes	**2**
3	Aspalathin	No - 2	
4	Carlinoside	No - 3	
5	Chlorogenic acid	Yes - 1	**3**
6	Chrysoeriol	Yes	**4**
7	Dihydrochalcone	Yes	**5**
8	Eriodictyol 5,3′di-O-glucoside	No - 3	
9	Esculin	Yes	**6**
10	Ferulic	Yes	**7**
11	Hyperoside	No - 2	
12	Isocarlinoside	No - 3	
13	Isoorientin	No - 2	
14	Isoquercitrin	No - 2	
15	Isovitexin	Yes	**8**
16	Kaempferol	Yes	**9**
17	Luteolin	No - 2	
18	Luteolin-7-O-glucoside	No - 2	
19	Neocarlinoside	No - 3	
20	Nothofagin	Yes - 1	**10**
21	Orientin	No - 2 violations	
22	Patuletin 7-glucoside	No - 2 violations	
23	*p*-coumaric acid	Yes	**11**
24	Procyanidin B3	No - 3	
25	Quercetin	No	
26	Quercetin-3-*O*-arabinoglucoside	No - 3	
27	Quercetin-3-*O*-galactoside	No - 2	
28	Quercetin-3-*O*-glucoside	No - 2	
29	Quercetin-3-*O*-robinobioside	No - 3	
30	Quercitrin	No - 2	
31	Rutin	No - 3	
32	Safflomin	No - 3	
33	Scoparin	No - 2	
34	Sinapic acid	Yes	**12**
35	Vicenin-2	No	
36	Vitexin	Yes - 1	**13**

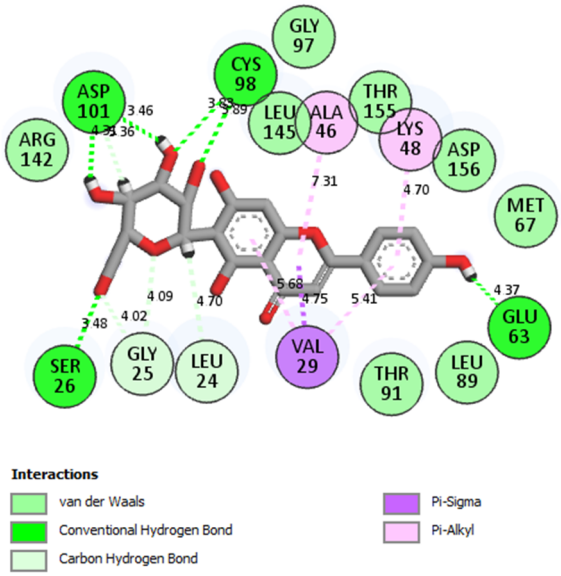
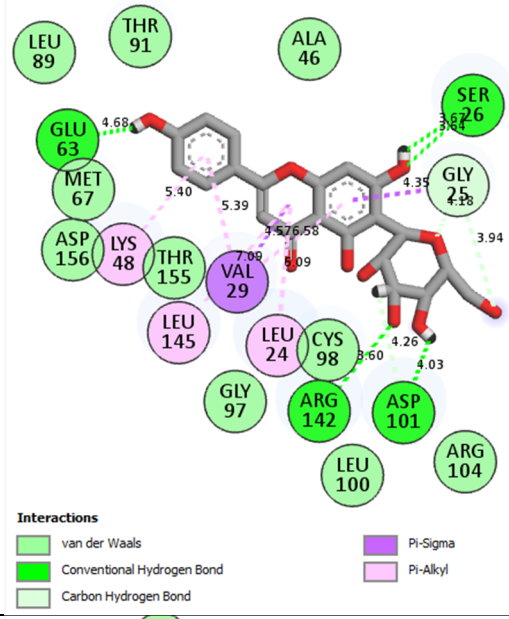
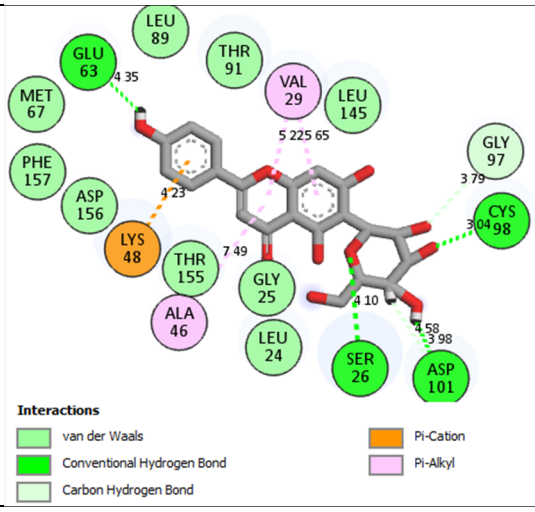
Table S2. 2D interactions of key targets and their associated key rooibos compounds in the HIF-1 pathway.

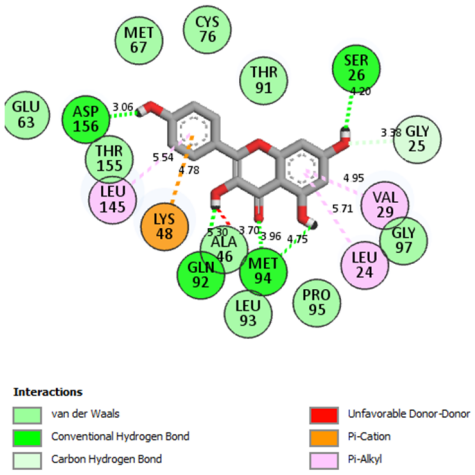
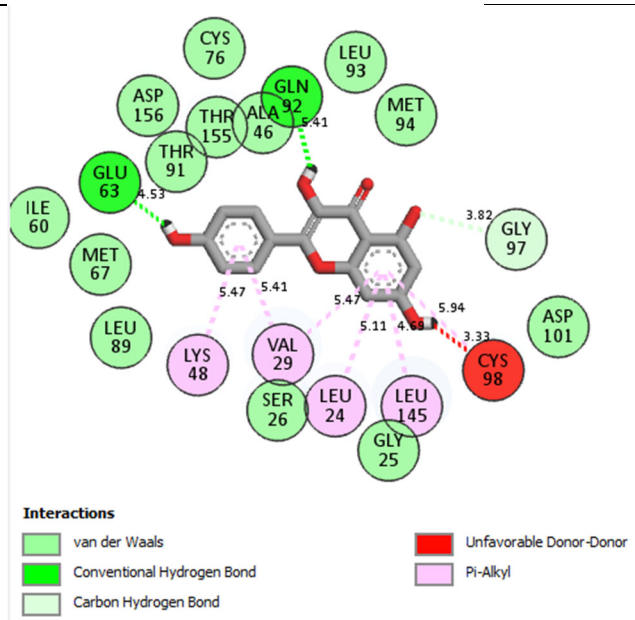
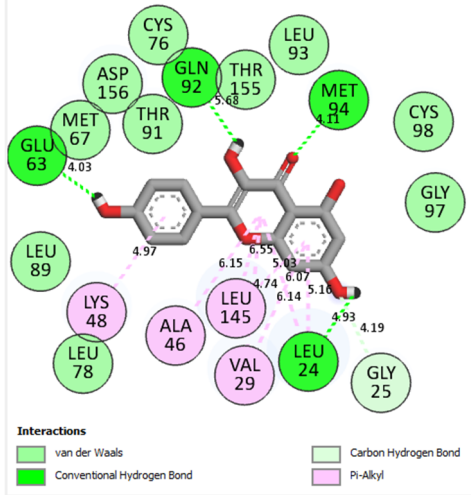
Compounds		2D interactions
EGFR		
Apigenin	60 ns	
	30 ns	
	0 ns	

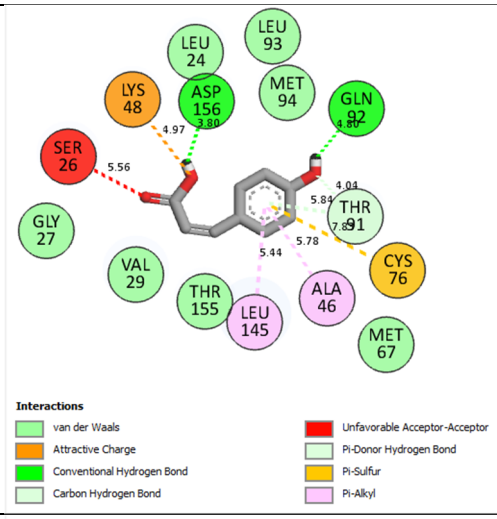
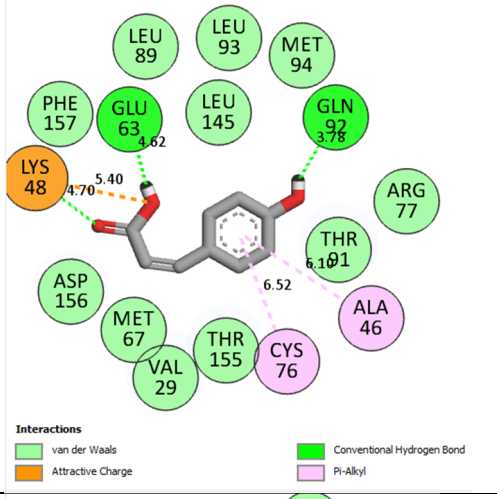
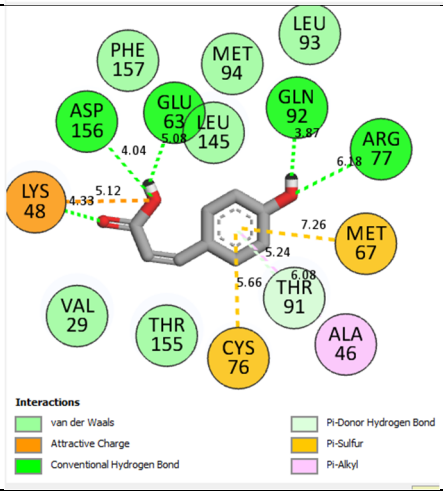
Chlorogenic acid	60 ns	
	30 ns	
	0 ns	

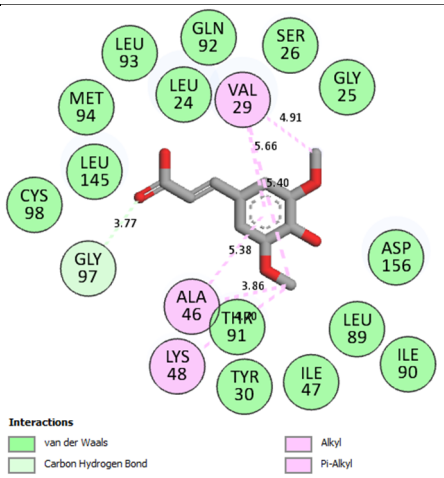
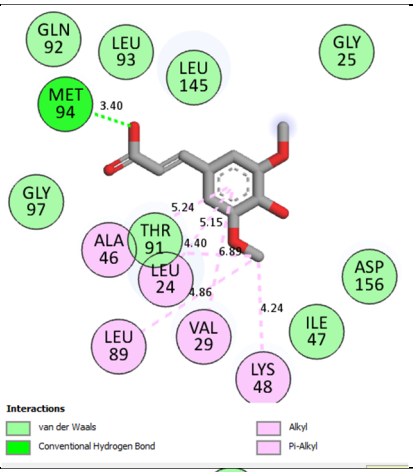
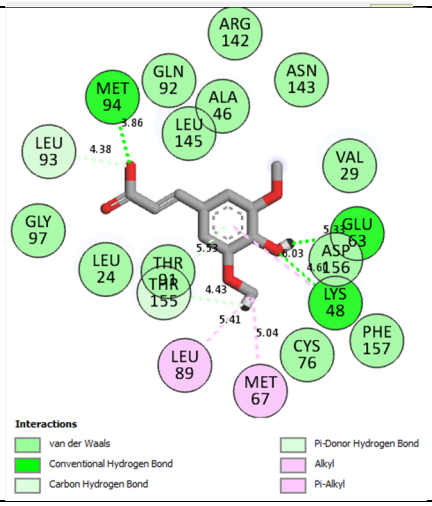
Chrysoeriol	60 ns	
	30 ns	
	0 ns	

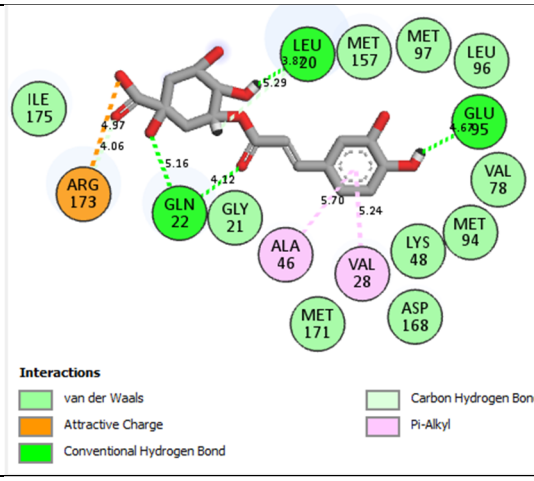
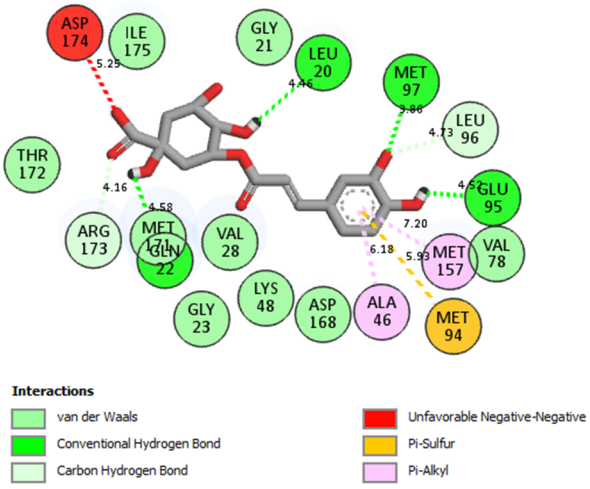
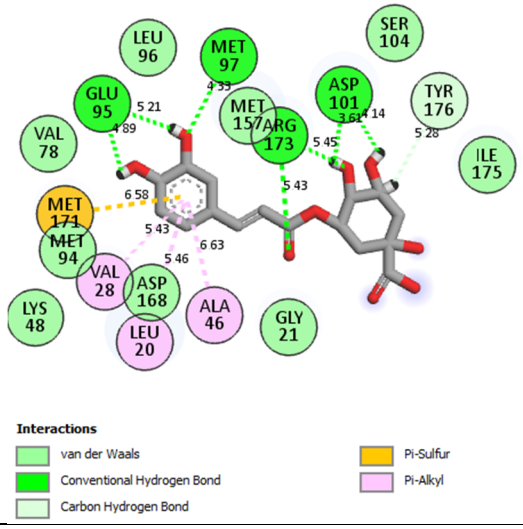
Ferulic	60 ns	
	30 ns	
	0 ns	

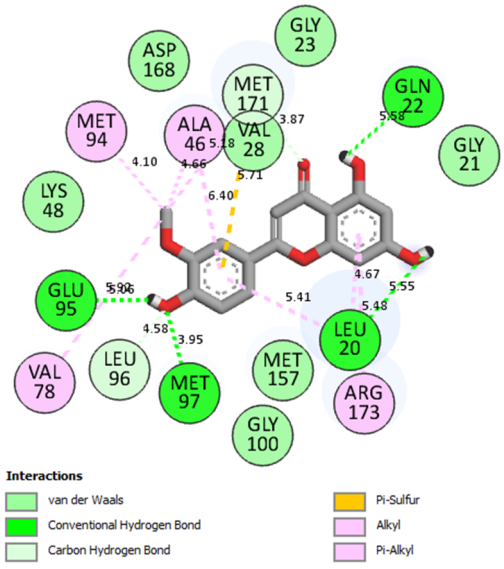
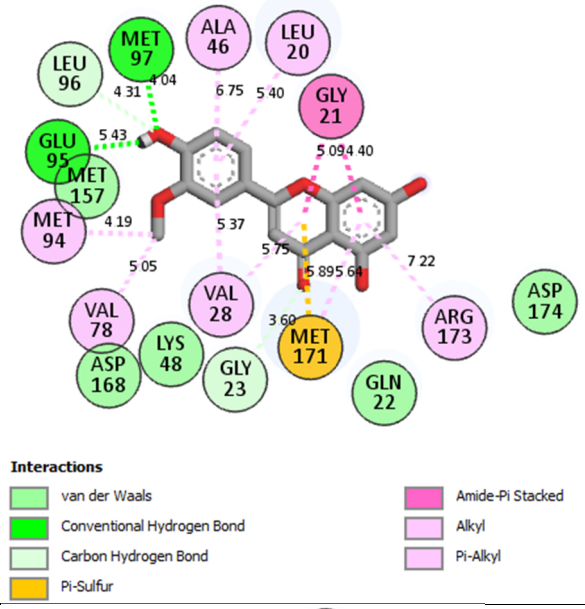
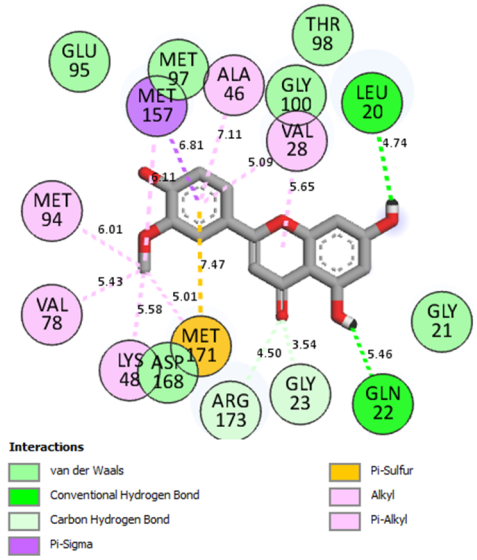
Isovitexin	60 ns	
	30 ns	
	0 ns	

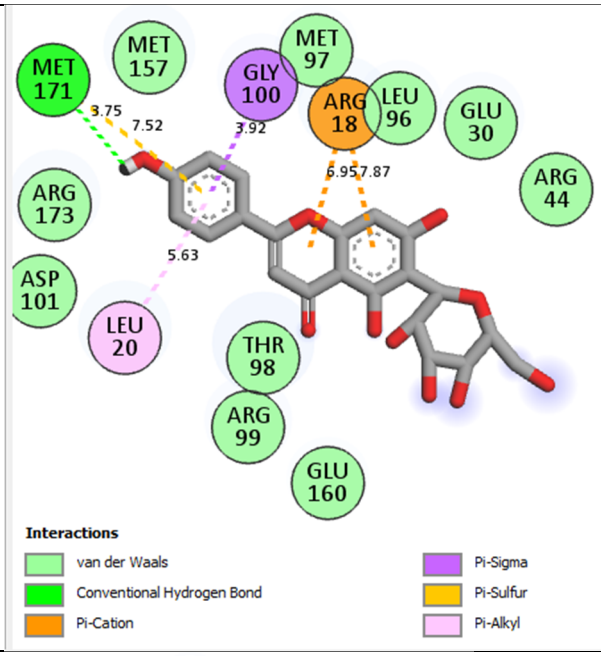
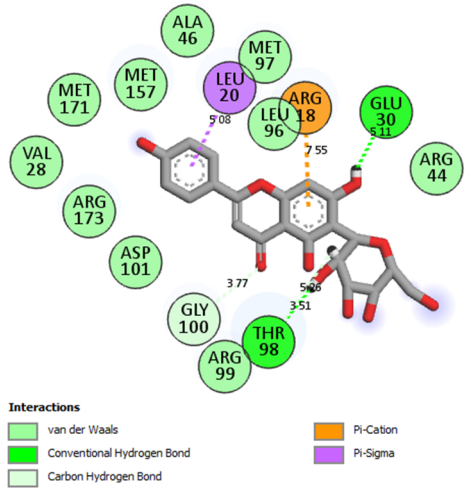
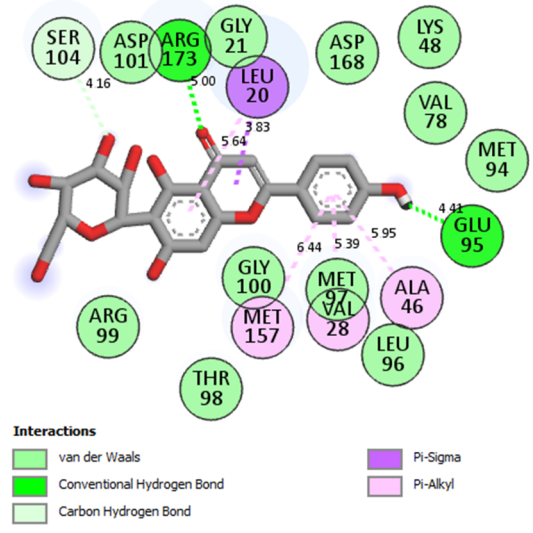
Kaempferol	60 ns	
	30 ns	
	0 ns	

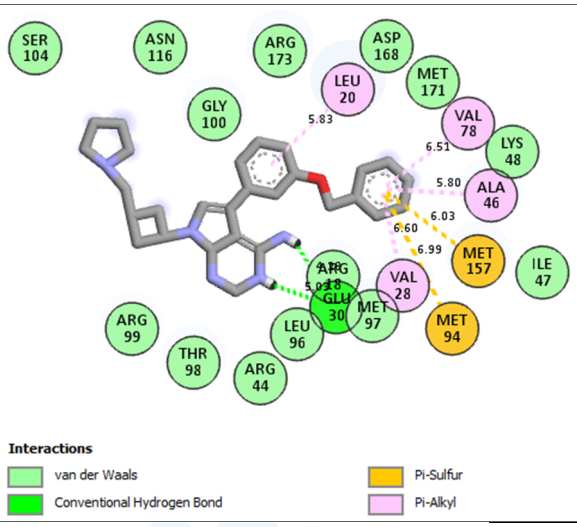
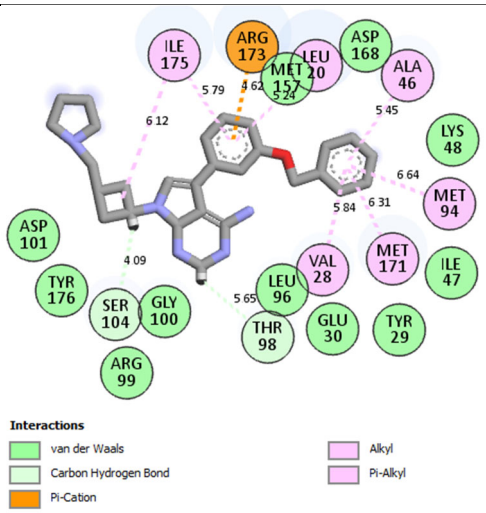
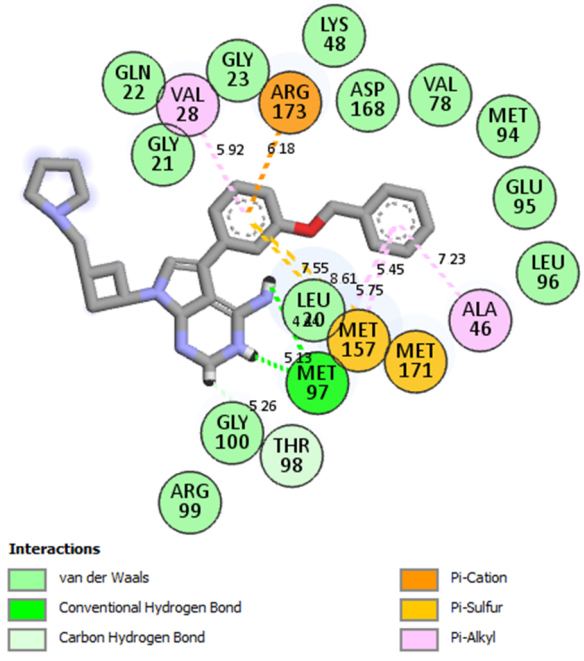
P-courmaric acid	60 ns	
	30 ns	
	0 ns	

Sinapic acid	60 ns	
	30 ns	
	0 ns	
IGF1R		

Chlorogenic acid		
30 ns		
0 ns		

Chrysoeriol	60 ns	
	30 ns	
	0 ns	

Isovitexin	60 ns	
	30 ns	
	0 ns	

NVP-ADW742	60 ns	
	30 ns	
	0 ns	

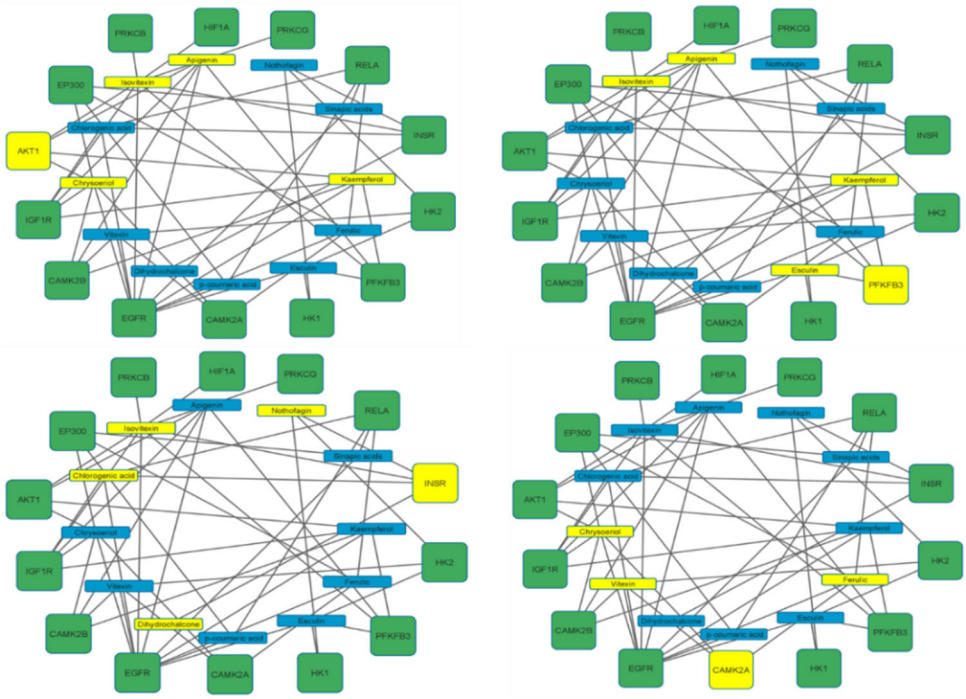


Figure S1. Rooibos compounds (4, 4, 4 and 3, respectively) with good interactions linked to other genes (AKT1, PFKFB3, INSR and CAMPK2A) related to the HIF-1 signaling pathway.