

# **The Phenolic compound Kaempferol overcomes 5-fluorouracil resistance in human resistant LS174 colon cancer cells**

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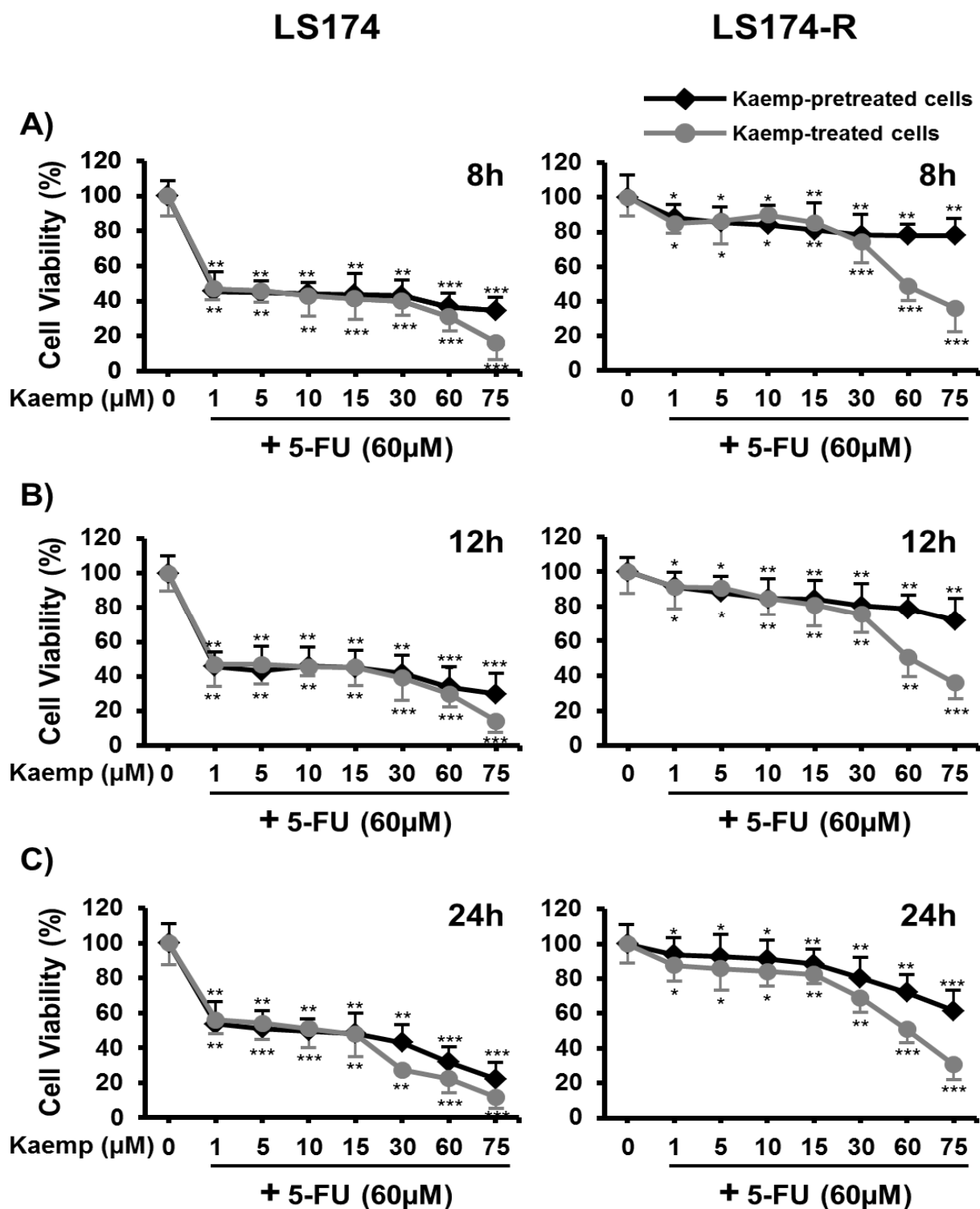
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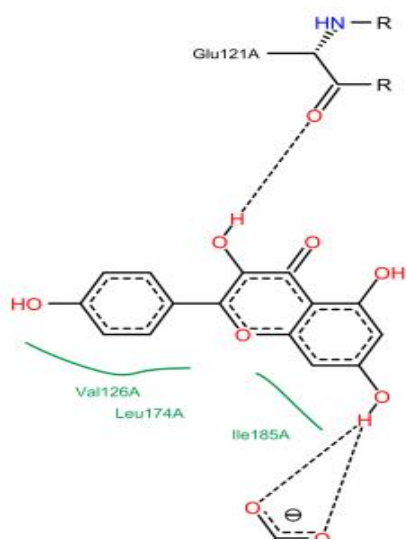
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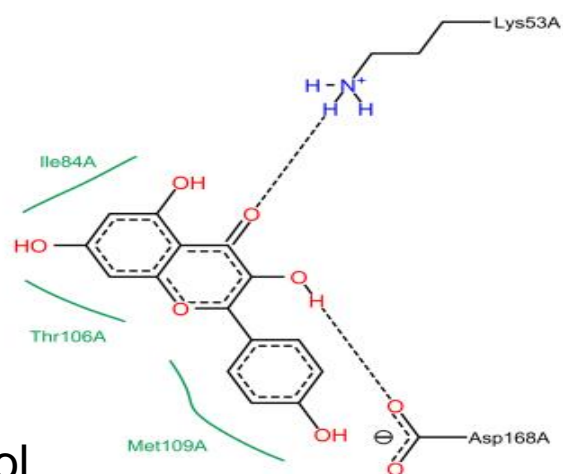


**Fig. S1. Kaempferol pretreatment chemo-sensitizes resistant colon cancer cells to 5-FU chemotherapy.** Both parental LS174 cells and 5-FU-resistant LS174-R cells were seeded in 96-well plates and pretreated for different time **A)** 8 h, **B)** 12 h and **C)** 24 h with increasing concentrations of Kaempferol (1-75 μM) and then exposed to 60 μM of 5-FU after removing or preserving the phenolic compound in the culture medium for additional 72 h. Cell viability was measured by MTT assay. The absorbance was measured at 540 nm. \*p < 0.05, \*\*p < 0.01 and \*\*\*p < 0.005 when compared to their respective CN.

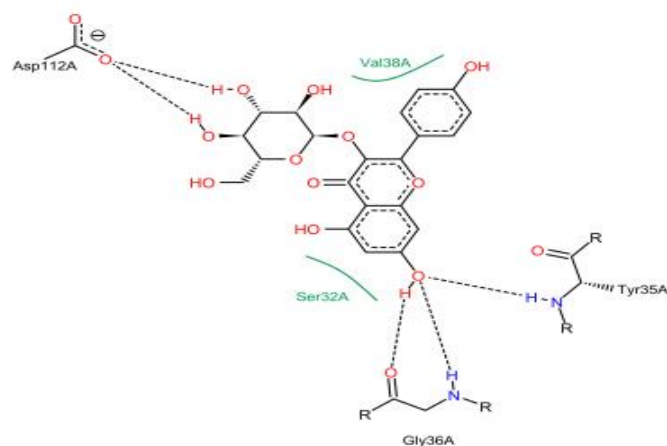
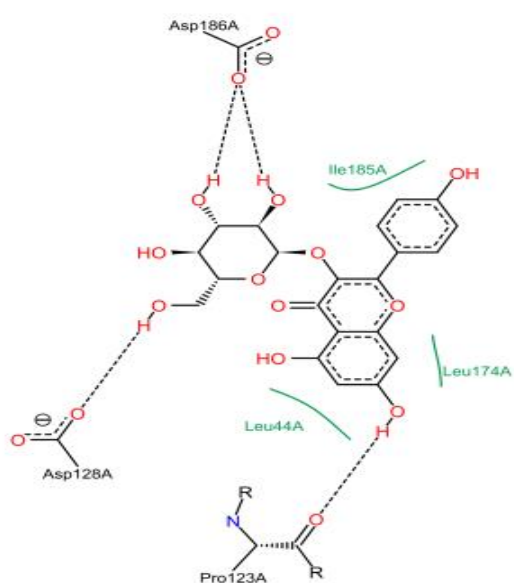
A)



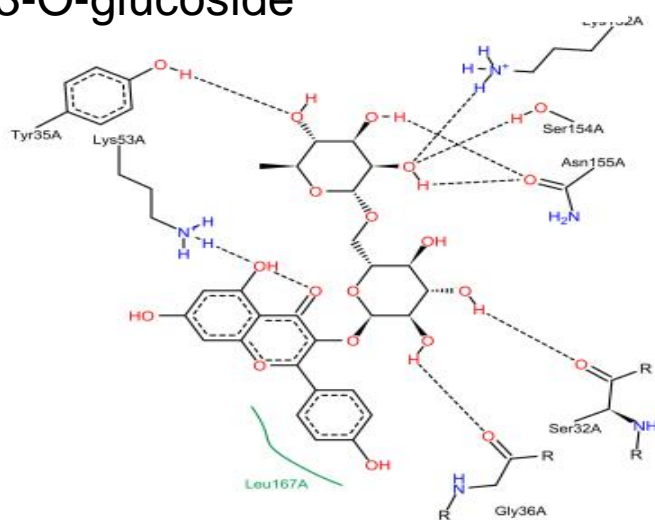
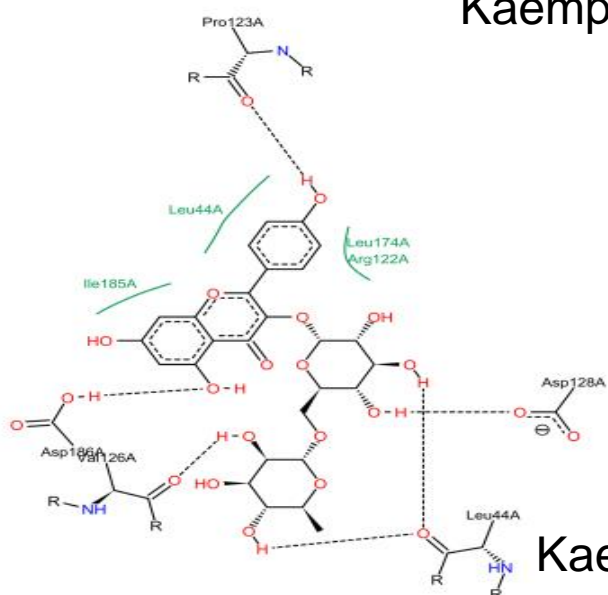
B)



Kaempferol



Kaempferol 3-O-glucoside



Kaempferol 3-O-rutinoside

**Fig.S2.** Description of the interactions established by Kaempferol, Kaempferol 3-O-glucoside and Kaempferol 3-O-rutinoside with PMI1 (A) and p38 (B). The figure was generated using PoseView (Stierand and Rarey, 2010, doi: 10.1021/ml100164p)