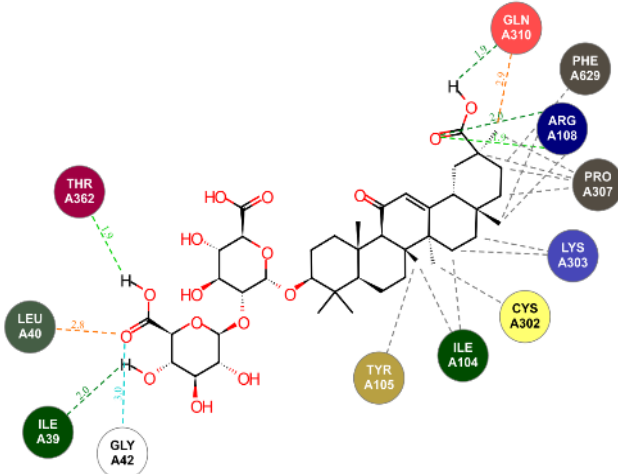
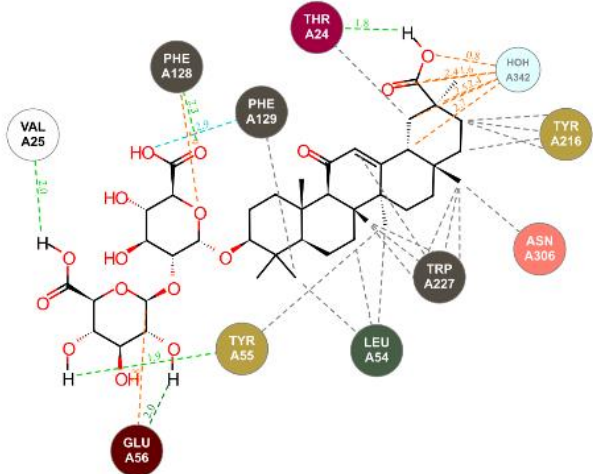


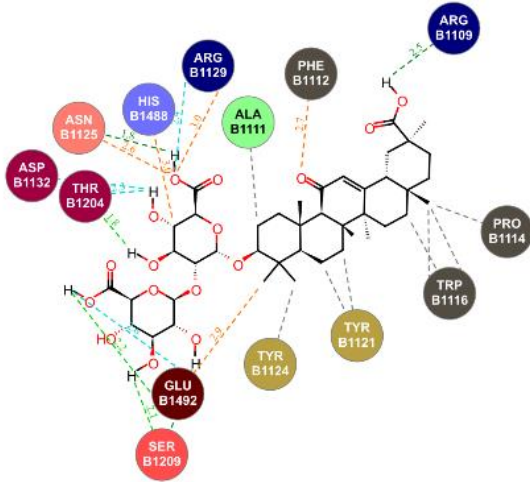
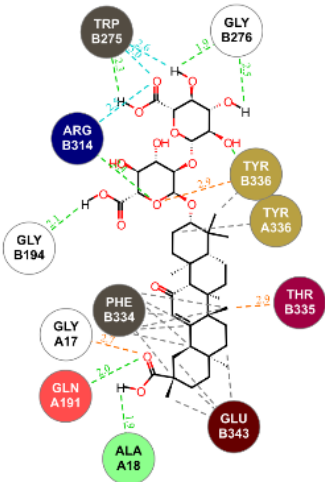
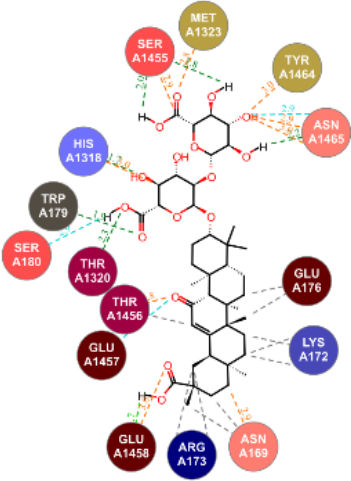
## SUPPLEMENT

*Ershov P.V., Yablokov E.O., Kaluzhskiy L.A., Mezentsev Yu.V., Gnedenko O.V., Konstantinov M.A., Toropygin I.Yu., Ivanov A.S. (2025) Glycyrrhizic acid: novel potential protein targets. Biomeditsinskaya Khimiya, 71(4), 270-282.*

DOI: 10.18097/PBMCR1595

Table S1. Visualization of hydrogen and hydrophobic bonds between amino acid residues of the protein and chemical groups of glycyrrhizic acid.

| Protein* | Amino acid residues of protein interacting with glycyrrhizic acid                                                                        | Basic model parameters                                    |
|----------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Acox2    | ACOX2_RAT_P97562_prepared Glycyrhhizic acid_D (8)<br> | Rank score: -<br>7,83109<br>dG (ккал/моль): -<br>11,35330 |
| Acr1c9   | 1AFS_P Glycyrhhizic acid_D<br>                       | Rank score: -<br>9,31565<br>dG (ккал/моль): -<br>12,35497 |

|       |                                                                                                                                                  |                                                                     |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Maoa  | <p>105W_P Glycyrrhizin_D_dimer</p>                             | <p>Rank score: -<br/>7,51663<br/>dG (ккал/моль): -<br/>10,68945</p> |
| Mat1a | <p>P13444_METK1_RAT_1QM4_prepared Glycyrrhizic acid_D (1)</p>  | <p>Rank score: -<br/>8,69516<br/>dG (ккал/моль): -<br/>12,13821</p> |
| Nalcn | <p>7CU3_P glycyrrhizic acid_D</p>                             | <p>Rank score: -<br/>8,72160<br/>dG (ккал/моль): -<br/>13,76953</p> |

\* Acox2, peroxisomal acyl-coenzyme A oxidase 2; Akr1c9, 3-alpha-hydroxysteroid dehydrogenase; Maoa, monoamine oxidase A [flavin-containing]; Mat1a, S-adenosylmethionine synthase isoform type-1; Nalcn, sodium leak channel non-selective protein