**Ideas for the analyses of the solutions set**

1. A graph where all solutions are combined, and each interaction is darkened in respect to the number of appearances in the solutions set. For example, an interaction that appeared in every solution would be the darkest.
2. Each solution would be represented with a table that includes the motifs that appeared and their locations in the solution.
3. We believe that in nature some motifs are more common than others. Thus, we can create ML models that will be trained on real-world networks, these models would be able to take in a network as input and they would return an answer which will indicate how likely that this is a real network. Also, it can return in the output the less “natural” motifs in the network.

**Output Ideas**

1. The table for each solution should contains only the motifs that appeared in it.
2. Each solution should have a graph representation with highlight on the motifs found in it.
3. The ML model should provide an estimated for the likelihood of the solution in a percentage form.
4. The ML model could also point out the unnatural motifs in the network in the form of a list or something.

\*\* Because every solution has common interactions with other solutions, we can change the input to contain the changes in the network (additional interaction and interaction that were removed). Then the algorithm would scan the areas of change.   
First solution would be defined as the origin and the rest would be its modifications.

2 formats – set of solutions that contains full networks and origin network and its modifications. Compare the results and running time.