**Insilico system biology practical**

**Experiment :** Determine protein-protein interaction information using STRING.

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**EXPERIMENT- 14**

**Aim**: Determine protein-protein interaction information using STRING.

**Theory:**

Protein–protein interactions (PPIs) are the physical contacts of high specificity established between two or more protein molecules as a result of biochemical events steered by electrostatic forces including the hydrophobic effect.

STRING is a database of known and predicted protein-protein interactions. The interactions include direct (physical) and indirect (functional) associations; they stem from computational prediction, from knowledge transfer between organisms, and from interactions aggregated from other (primary) databases. The STRING database contains information from numerous sources, including experimental data, computational prediction methods and public text collections. It is freely accessible and it is regularly updated. It is accessed through <https://string-db.org/cgi/input.pl?sessionId=OIDuUN3jFz7b&input_page_show_search=on>

**Procedure:**

1. Open string database, and go on the search URL.
2. Enter the protein name and the name of the organism. Examples are also available above the search bar.
3. After entering the query, you will be taken to a page that shows the PPI along with the legend, and links to different databases for the proteins shown in the network.







