Use case 3. **Human sperm proteome analysis**

Get annotation from RNAseq/Ab-based experiments

Protein list

Expression from RNAseq/ Ab-based data (Human Protein Atlas)

goProfiles

goProfiles

Identifiers Converter
(neXtProt, UniProt, ENSG, ENST, ENST, GO, …)

ID Converter

Functional classification using GO terms

topGO

topGO

Generate chart

Protein-protein interaction

Protein-Protein Interaction

Graphic representation of interaction network
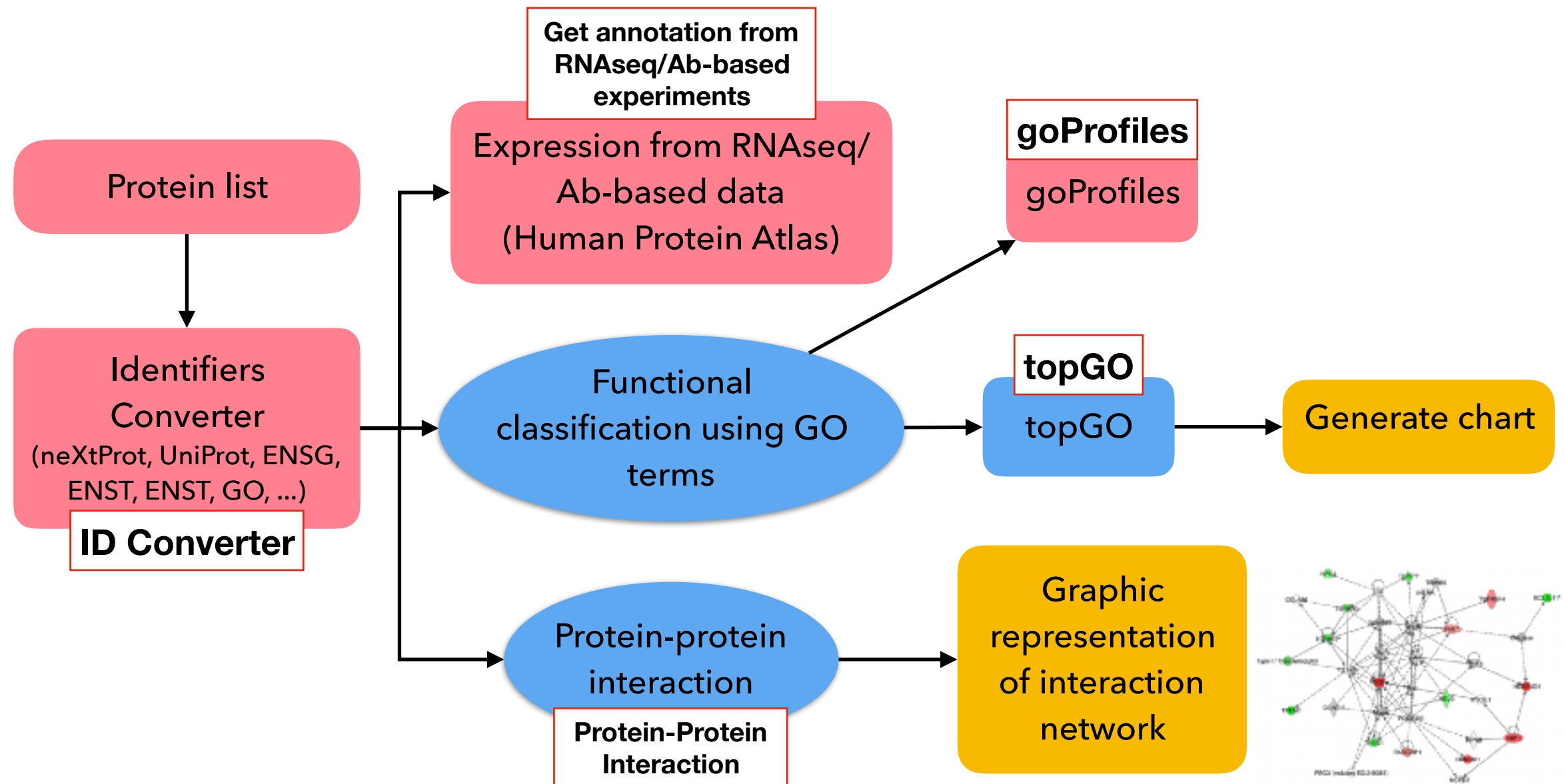
Protein-Protein Interaction

- Purpose: mapping your proteins on a reference human interactome

- Input: a list of UniProt IDs

- Available interactomes:

  - Bioplex Interactome (Huttlin et al. Nature (2017))

  - hu.MAP Interactome (Drew, Macotte et al. (2017))

- Result: interaction network and additional textual file

- Difficulty: visualization of interaction network