# Questionnaire

**Your name:** ███████████

**Your email address:** ████████████████

**Your institution: Jawaharlal Nehru University, New Delhi**

**Your position:**

|  |  |
|---|---|
| Undergraduate student | [ ] |
| PhD student | [ ] |
| Technician | [ ] |
| Postdoc | [ ] |
| Faculty member | [ ✔ ] |

**Question 1:** In a scale from 1 - 10, how important do you think it is to have quick access to the following type of information about each gene or protein?

a. Protein-protein interactions [1-10]: 9

b. General function of the gene/protein [1-10]: 9

c. Diseases a gene/protein is involved in [1-10]: 9

d. Biochemical pathways a gene/protein is part of [1-10]: 9

e. Cell types/tissues where your gene/protein is expressed [1-10]: 5

f. Your protein's 3D structure (PDB) [1-10]: 3

g. Popularity of the gene/protein in **social networks (Twitter, Facebook)** [1-10]: 1

h. Knowing the **average impact factor** of the journals where a particular gene/protein is normally published [1-10]: 3

i. The **relative scientific weight (e.g. by h-index)** of the scientists that work on your gene/protein [1-10]: 4

j. How popular your gene/protein is in recently awarded grants (this is public information once a grant is awarded) [1-10]: 8

k. What other genes/proteins are discussed in the context of your protein [1-10]: 6

l.  How your gene/protein is regulated at the transcriptional level [1-10]: 3

m.  How your gene/protein is regulated post-translationally (phosphorylation, ubiquitination) [1-10]: 4

n.  What is the **most popular type of experiment** other scientists typically do on your gene/protein [1-10]: 9

o.  What **biochemical kits** are available for doing these experiments [1-10]: 8

p.  Other (explain what type of information)  [1-10]:

**Question 2:** What websites do you visit the most when analysing your list of genes/proteins?
What type of information do you expect to get from each of these websites?

Some examples of websites include:

- ✔Ensembl ([www.ensembl.org](www.ensembl.org))

- ✔NCBI's Entrez ([https://www.ncbi.nlm.nih.gov/Class/MLACourse/Original8Hour/Entrez/](https://www.ncbi.nlm.nih.gov/Class/MLACourse/Original8Hour/Entrez/))

- ✔NCBI Databases ([https://www.ncbi.nlm.nih.gov/search/](https://www.ncbi.nlm.nih.gov/search/))

- EuPathDB.org (Eukaryotic Pathogens Database)

- Galaxy ([https://usegalaxy.org/](https://usegalaxy.org/))

- ✔PubMed ([https://www.ncbi.nlm.nih.gov/pubmed/](https://www.ncbi.nlm.nih.gov/pubmed/))

- UniProt ([http://www.uniprot.org/](http://www.uniprot.org/))

- ✔KEGG Pathway Database ([https://www.genome.jp/kegg/pathway.html](https://www.genome.jp/kegg/pathway.html))

- Any other resource you use routinely.

| Website | Type of information sought | Priority in your analytical pipeline |
|---------|----------------------------|--------------------------------------|
| *Example:* PubMed | Find out what's been published about my gene or protein | 1 |

|  |  |  |
|---|---|---|
|  |  |  |
|  |  |  |
|  |  |  |
| *(expand the table as needed)* | | |

**Question 3:** How often do you perform these exploratory analyses on your genes or proteins:

[a] Daily                          [  ]

[b] Weekly                       [  ]

[c] Monthly                      [  ]

[d] Several times a year    [ ✔ ]

[e] Other (explain)            [  ]

**Question 4:** If you could obtain the same type of information that you seek by doing these analyses **in 5 minutes only**, how often would you now perform these analyses?

[a] Daily                          [  ]

[b] Weekly                       [  ]

[c] Monthly                      [  ]

[d] Several times a year    [ ✔ ]

[e] Other (explain)            [  ]

**Question 5:** When you get **a list of genes/proteins** from a proteomics or a differential expression experiment, what **steps and tools** do you follow for the analysis?

1. qPCR, relative quantification

2. STRING

3. BLAST

4. Multiple Sequence Alignment


**Question 6:** Now and related to the previous question, instead of telling me what steps you follow in your analysis, if I asked you **what type of information you would like to know** about each one of your genes or proteins, what would you be interested in knowing?

Here you can include some information you would love to have **but do not know** how to obtain it.

1. Homology

2. Intractome

3. Binding partner

4. Fold change increase

5.


**Question 7:** If you have a long list of genes/proteins from a high-throughput experiment you ran in the lab, **what are the most useful factors in determining the next follow-up experiment?**

E.g. how easy the potential experiment is, how relevant the cell type, how much money this would cost, etc.

1.

2.

3.

4.

5.


**Question 8:** What do you think is the **most competitive advantage against other competing laboratories** when trying to decide what the next follow-up experiment would be?

1. Funding

2. Infrastrutre

3. Supportive system

4.

5.

__END OF QUESTIONNAIRE__

Please return this questionnaire to [d.mirandasaavedra@gmail.com](mailto:d.mirandasaavedra@gmail.com)