Exercise #4

4.1 Complete virus query

Go to http://viruses.string-db.org, and select **Complete Virus** from the menu on the left. In the **Virus dropdown**, enter "*Measles*", and the **Host dropdown** can be left as auto-detect to detect the host with the most interactions, in this case, *Homo sapiens*. Click **Search** to retrieve the network.

4.2 Inspect virus evidence

Click on the edge connecting the measles virus P/V protein and the human STAT2 protein.

• What types of evidence support an interaction between these proteins? List two publications that the evidence comes from.

4.3 Single virus protein query

Click on the logo at the top of the page to go back to the main search screen. Select **Virus by Single Protein** from the left, and then enter "P" as the **Virus Protein Name** and "**bacteriophage lambda**" as the **Virus**. The **Host** can again be left to auto-detect *E. coli*. Protein P is responsible for the bi-directional replication of phage DNA.

- Which host proteins does P interact with?
- What types of evidence supports these interactions?