**Bioinformatics project ideas for secondary school students.**

**Projects should take approximately 12 hours over 4 weeks, as 4 x 3-hour sessions, to accomplish.**

**If you have an idea for a research project for students to choose from please complete the sections below. If you have any questions or would like more information please contact** **Eva Haas** **of the ELLS team at EMBL.**

Introduction:

One or two paragraphs about the project, including a few (3-6) key references. A picture or a diagram is also welcome.

Suggested research questions:

3 or 4 possible research questions.

Data:

What sort of data needs to be sourced (suggested organisms/families of genes/proteins etc.), and which databases are mostly likely to have this data.

It would be helpful to provide an idea of how much would be a recommended minimum and any hints about ones to avoid and controls that are essential to consider.

Tools:

Recommendations of which tools would be required to answer the questions e.g. MUSCLE

References:

Any key papers that have been cited or recommended background reading (preferably about 5 or 6, but not more than 10)

Key researcher / research group:

This information can be kept separate – who to contact and best means of communication.

Contact:

Are you happy for the students to contact you, via ELLS, with questions about the project or the outcomes once they have completed it?

* Yes
* No
* Maybe, tell me more

Please send your completed form to ELLS. Thank you for your contribution and support.