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Day 1 – Take Home Exercises

Can you relate to the Entrez Database Searching scenario that we covered in Day 1 of the workshop? Is there a gene of interest that you have recently read about that you would like to know more about?

If so, start with your gene name and try to answer the questions below:

1. What are the accession.version numbers for the mRNA sequence, genomic, and/or protein sequences for your gene? (You could start by searching GenBank and/or you could explore EntrezGene. Be sure to use the advanced searching features including limits and preview/index tabs. Check out the How to... links on the NCBI main page.)
2. Is your gene of interest related to a human disease? (Hint, search OMIM.)
3. Does your gene of interest have any known protein:protein interactions (Try searching CDD, EntrezGene.)
4. Can you find homologues for your gene of interest in other species? (Try searching Homologene, and/or follow links to BLAST.)
5. How many PubMed enteries are there that discuss the function of your gene? Can you save this list of papers as a collection in your MyNCBI account?
6. Find out more, by making up your own questions ...

Write down any questions, comments, or problems that you encounter along the way so that we can discuss them in tomorrow's workshop session: