# Bioinformatics - Assignment 1

Choose a topic

## PubMed Search Criteria

* Query punned and record the number of results found
* Filter by publication date of 5-10 years and abstracts
* Answer:
  + What is a randomized controlled trial? How many results are shown after filtering with this parameter?
  + How could you optimize your search further?

## Selected Abstracts

* Pick 5 abstracts and answer:

#### Abstract 1

* + What was the goal?
  + What methods were used?
  + What genes are reported to be related to your topic?

#### Abstract 2

* + What was the goal?
  + What methods were used?
  + What genes are reported to be related to your topic?

#### Abstract 3

* + What was the goal?
  + What methods were used?
  + What genes are reported to be related to your topic?

#### Abstract 4

* + What was the goal?
  + What methods were used?
  + What genes are reported to be related to your topic?

#### Abstract 5

* + What was the goal?
  + What methods were used?
  + What genes are reported to be related to your topic?

## GenBank Genes from Abstracts:

#### Abstract 1

* Answer:
  + What is the accession number?
  + What are orthologs?
* Query GenBank with the names of genes found from your research. Look for nucleotides.
* For each gene: - *Consider Reformat to Table*

###### Gene XYZ

* + Which chromosome is it located on?
  + What is its position?
  + Which species were reported to have this gene?
  + What molecular functions and biological processes is the gene involved in?

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