

## Lab sheet 1

### NCBI overview and PubMed database

#### Objectives:

- To be familiar with NCBI interface.
- Using PubMed database to construct a search.

#### Use NCBI database to answer the following questions:

1. Retrieve all records of **cancer**. Which database returns the highest number of hits?
2. Retrieve all records of **cancer** except those from **BRCA1 mutations**.
3. How many articles published on **Arabian camel**? What happen if you search only for **camel**?
4. How many articles published about **vitamin D and osteoporosis**?
5. How many articles published about **osteoporosis** and not related to **vitamin D**?
6. How many articles published from **King Saud University** in **2009**?
7. Search for all articles about epigenetics of colorectal cancer. Sort the articles by **Best match**.
8. Search for a **review** article about **colorectal cancer molecular basis**.
9. How many free texts published on **oxytocin**?
10. How many texts published on **human oxytocin**?
11. Send on of the articles to the **clipboard**. Remove the article from the **clipboard**.
12. Copy the **citation** of an article. Send the article to **citation manager** program.
13. Send an article to your **e-mail**.
14. The bond between the domesticated dog and their owner can be quite strong. It is also believed that owning and interacting with a dog can lower blood pressure, increase longevity, and give the owner a feeling of well-being. Could it be that some of these physiological effects are mediated by the dog inducing the production of oxytocin in the owner? Search **PubMed** for evidence.
15. How many articles published by **the journal of cell biology**?
16. Search for all published articles written by **Arjumand Warsy**.
17. There is an article in *the New England Journal of Medicine* on Williams syndrome written by Dr. Barbara Pober. Construct a **specific search** on PubMed to find this article.
18. Find your PubMed **search history**.

19. Search for a **PMC** article about **hepatitis** and download it as pdf. Save the citation as RIS file.
20. Find two **similar articles** to the previous article.
21. Using **MeSH** term, search for immunology in cancer.