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## **Data submission**

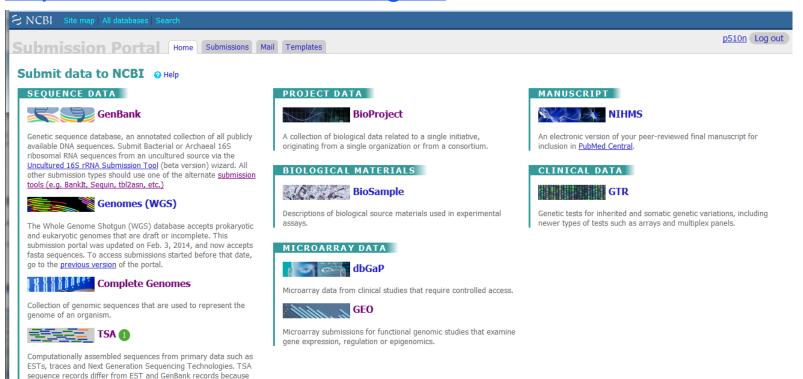
Repositories, tools and types



### Where do I start?

#### https://submit.ncbi.nlm.nih.gov/

there are no physical counterparts to the assemblies.





# Main data categories

- WGS and Genomes
- "Annotated sequences"
  - DDBJ/EMBL/Genbank
    - Continuous
    - Nucleotide data
    - •>200 nucleotides
    - Physical counterpart
- Microarray
  - •GEO
- •SRA
- dbSNP & dbVar
  - •<50 and >50 BP seq respectively
- Data for specific purposes (Clinical etc)



# Main metadata categories

- BioSample
  - Biological source materials
  - Enviroment
- Bioproject
  - Details about the lab samples
  - Includes BioSample



## **Genbank submission tools**

Tool	Function
Bankit	Web-based, easy, weak
Sequin	Stand-alone, graphical, easy, works offline
Tbl2asn	Stand-alone, command line, strong, offline; Good for big data
Barcode	Like Bankit but for <u>Barcode of Life</u> projects based on the COI gene.



# **About project size**

- There are always batch alternatives
- Only use graphical tools on small projects
- Or when unsure



### **About the hands-on**

#### You will test uploading to:

- •Genbank, BankIt
- •Genbank, Sequin
- BioSample
- BioProject
- •GEO
- •SRA



### **About the hands-on**

- 1. We will not submit anything
- 2. Play around with as many fields as possible
- 3. Data can be uploaded to other sections
- 4. If you are unsure about what a field does; ASK!