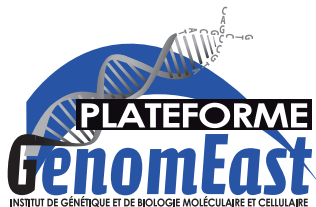


# Introduction to RNA-seq and ChIP-seq data analysis

Céline Keime [keime@igbmc.fr](mailto:keime@igbmc.fr)  
Stéphanie Le Gras [slegras@igbmc.fr](mailto:slegras@igbmc.fr)



# Introduction to RNA-seq and ChIP-seq data analysis

---

- Introduction
  - Illumina sequencing technology
  - Galaxy
- RNA-seq
  - Library preparation and experimental design
  - Quality control
  - Read mapping
  - Data analysis
  - Ensembl Biomart
  - Functional analysis
- ChIP-seq
  - Library preparation and experimental design
  - Data analysis
- Galaxy workflows
- Correlation of RNA-seq and ChIP-seq data

# Data files and software

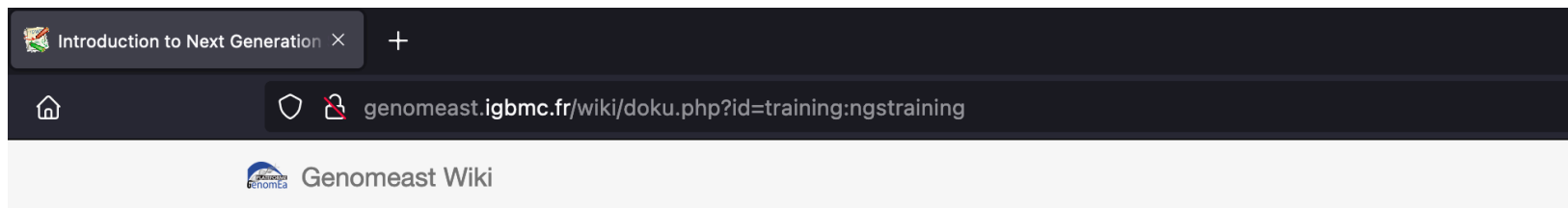
---

- You should have on your computer
  - Files needed for practical sessions
    - Files you have downloaded from our FTP server
      - Host : `ngs.igbmc.fr/analyzeddata`
      - Login : `NGS_data_analysis_training`
      - Password : `NGSdat_23`
    - Software
      - Latest version of zoom
      - Excel
      - Firefox
      - Latest version of JAVA
      - Integrative Genomics Viewer version 2.11.0
  
- You should have an account on Galaxy France server

# Training material

---

- Lectures and answers to questions addressed during practical sessions
  - <http://genomeast.igbmc.fr/wiki/>
    - Training
    - Introduction to Next Generation Sequencing data analysis



## Introduction to Next Generation Sequencing data analysis




---

2022, March 2->4

---

# Zoom

---

- Do not hesitate to ask questions
  - Reactions → raise hand
  - Chat
- Mute your microphone when are not speaking
- Practical parts
  - 2 rooms
    - Ask questions
    - Share screen
    - Reactions :
      -  you have completed the exercise and do not have any question
      -  You get an error / you need help
      -  You have a question
  - Go back to the main session to go through the exercise together