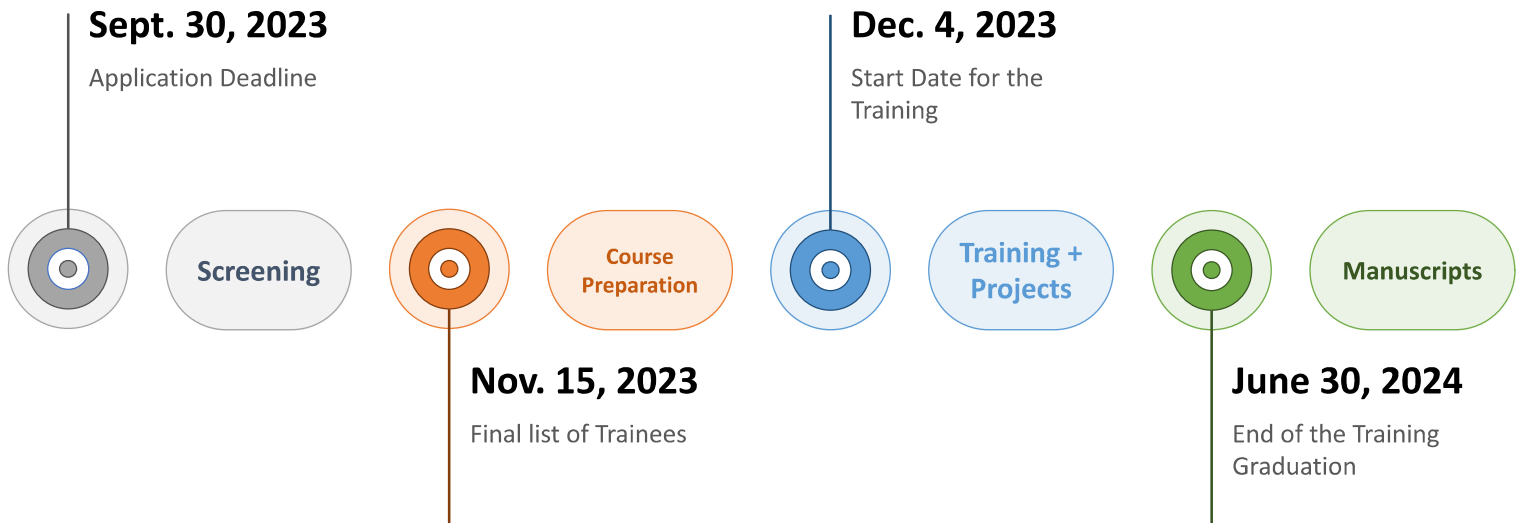


AFRICAN INITIATIVE FOR BIOINFORMATICS ONLINE TRAINING IN NEURODEGENERATIVE DISEASES (AI-BOND)

AI-BOND TIMELINE



AI-BOND TRAINING MODULES

PROGRAMMING

- Introduction to Programming
- Introduction to R, Python, Linux
- Introduction to HPC Computing
- Connecting and Submitting jobs on HPCs



01

NEURODEGENERATIVE DATABASES

- Query online neurodegenerative databases
- Selecting the right data and quality control
- Data visualization
- Statistical approaches



02

GENETIC EPIDEMIOLOGY

- Performing genome-wide association studies (GWAS)
- Performing meta-analysis of GWAS
- Whole-genome sequencing analysis



03

OMICS

- Performing transcriptomics analysis (RNA-seq, scRNA-seq,..)
- Performing epigenomic analysis (DNA-Methylation)
- Conducting Microbiome Studies
- Conducting Metabolomics Studies



04

RESEARCH PROJECT MATURATION AND PUBLICATION

GRADUATION

CERTIFICATE OF PARTICIPATION (BRAIN CONSORTIUM)



https://brainafrica.org/event/ai_bond_registration_2023/