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

BRAIN
Brain Research Africa Initiative

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Online Training (Zoom) | December 4, 2023 | June 30, 2024 | Free Participation

Training the Next Generation of African Scientists in State-of-the-art Bioinformatic and Epidemiologic Methods in Neurodegenerative Diseases

Bioinformatics
R, Python, SAS
HPC Programming
Biostatistics
Genetic Epidemiology
Genomics
Epigenomics
Metabolomics
Neurodegenerative Diseases

Follow us on

https://www.linkedin.com/in/ai-bond-b2583028a/

https://www.instagram.com/bioinformaticsonlinetraining/

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To Submit your Application
Scan the QR code or visit

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

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

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FACULTY

Dec. 4, 2023 | June 30, 2024

Free Online Training (Zoom)

Application deadline: Sept. 30

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To Submit your Application Scan the QR code or visit

PLANNING COMMITTEE: Emmanuel EPENGE, MD; Yembe NJAMNSHI, MD; Cyrille Nkouonlack, MD; Biniyam Ayele, MD

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AI-BOND TIMELINE

Sept. 30, 2023
Application Deadline

Screening

Nov. 15, 2023
Final list of Trainees

Course Preparation

Dec. 4, 2023
Start Date for the Training

Training + Projects

June 30, 2024
End of the Training Graduation

Manuscripts

AI-BOND TRAINING MODULES

PROGRAMMING

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

01

02

NEURODEGENERATIVE DATABASES

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

GENETIC EPIDEMIOLOGY

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

03

04

OMICS

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

RESEARCH PROJECT MATURATION AND PUBLICATION

GRADUATION

CERTIFICATE OF PARTICIPATION (BRAIN CONSORTIUM)