Bioinformatics Short Course

Introduction

The Uganda Medical Informatics Centre (UMIC) in collaboration with the European Bioinformatics Institute and Eastern Africa Consortium for Clinical Research (EACCR2) are set to conduct a 3 day Bioinformatics training at Uganda Virus Research Institute (UVRI) from 6th to 8th April 2020.

Course Details:
This is an Esembl project (www.ensembl.org) that provides a comprehensive and integrated source of annotation of mainly vertebrate genome sequences. The workshop offers participants the possibility of gaining hands-on experience in the use of the Ensembl genome browser but also provides them with the necessary background information. Other sister project at www.ensemblgenomes.org can also be covered if participants are working with bacteria, plants, fungi, protists or (invertebrate) metazoa.

Day one:  Bioninformatics Ensembl Browser workshop at targets 30 people.

Day two:  Training of trainers and targets 6 people

Day three:  REST API workshop and targets 15 people who MUST be able to code in PYTHON or R and have attended the Browser workshop (day1).

The Training will be conducted by Dr Benjamin Moore from European Bioinformatics Institute (EMBL-EBI), UK

Learning outcomes

At the end of the training, participants should be able to:

- View genomic regions and manipulate the view to add features they are interested in.
- Explore information about genes and their sequences, and gene data in bulk using BioMart.
- Analyze genomic variants and associated phenotypes and their own variation data using the VEP.
- View homologous genes and genomic regions, functional elements involved in gene regulation and their activity in different cell types.

Eligibility:

The workshop primarily targets wetlab researchers, and the course is customized for species of interest and to include total beginners to our browser up through frequent users. Scientists, graduate students, Postdoctoral research fellows, and exceptional undergraduates with requisite wetlab experience and residing in the Uganda are invited to apply.

Only participants with a recommendation letter from their supervisors will be considered for the course.
Application Procedure:

Applicants should complete the course application form attached herewith, and send along with a recommendation letter from Supervisor and detailed CV to:

Ms. Saitat Namuli Musoke, via email address smusoke@uvri.go.ug and copy to jnanseko@uvri.go.ug before

13th March 2020, 04.00hrs EAT. Application form can also be obtained at http://www.eaccr@eaccr.org

Please indicate which of the three days you wish to attend.

Only selected candidates will be contacted.