

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 Ensembl 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 projects at www.ensemblgenomes.org can also be covered if participants are working with bacteria, plants, fungi, protists or (invertebrate) metazoa.

Day one: Bioinformatics 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.



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**Uganda Virus
Research Institute**

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. Saidat 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.



EACCR2 is part of the EDCTP2 Programme supported by the European Union under grant agreement
RegNet2015-1104-EACCR2



Bioinformatics Short Course-Application form

This form is to be completed by applicants for the short course in Bioinformatics. All applications should be sent via email to smusoke@uvri.go.ug and copy to jnanseko@uvri.go.ug by the **13th March 2020 16:00 Hours (EAT)** Application form can also be obtained at <http://www.eaccr@eaccr.org>

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

1	Title of Course	Bioinformatics Short Course	
2	Applicant's personal particulars		
	Full name		
	a) Sex (male/female)		
	b) Nationality		
	c) Email address		
3	Employment		
	What is your current employment		
	Please describe your daily activities in the current employment		
4	University / College training (Please list University/College trainings starting with the most recent)		
	Year	Institution	Qualification /award
	a)		
	b)		
	c)		
6	References (please provide name and email addresses of 2 persons that can act as your referees)		
	a)		
	b)		
7	Declaration		
	Applicant's signature and date		

Attachments

1. CV – please attach detailed up-to-date curriculum vitae
2. Recommendation letter from Supervisors

NB: After training EACCR2 will keep tracking all trainees to find out of the application of the knowledge and skills obtained under such trainings. Please provide a reliable/permanent email address.

All applications should be sent addressed to: