

DEPARTMENT OF BIOLOGICAL SCIENCES UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES LAHORE, PAKISTAN

The Vice Chancellor
UVAS, Lahore

BNY: 2481
Date: 21-12-2020

Through proper channel

Subject: **Approval to conduct one day online seminar on "Application of CRISPR Gene Editing Tool in Animal, Fungi and Plants"**

Sir,

It is submitted that one day training workshop entitled "**Application of CRISPR gene editing tool in animal, fungi and plants**" has been planned to be conducted in Department of Biological Sciences, Faculty of Fisheries and Wildlife, Ravi campus, Pattoki. The seminar will provide useful insight into the CRISPR, current popular genome editing tool for being simple and efficient.

The training will comprise of following sessions:

1. Introduction to CRISPR
2. Basic CRISPR cell engineering work flow
3. Design and synthesis of target specific guide RNAs (gRNAs) to analysis of gene editing efficiency.

The sessions will be conducted by resource person, Dr. Muhammad Bilal Bin Majeed, Assistant Professor, from Department of Animal Breeding and Genetics, University of Veterinary and Animal Sciences-Lahore, Ravi campus, Pattoki. Kindly approve to conduct the training on 23-12-2020 via google meet at the Department of Biological Sciences, Ravi campus, UVAS.

Thanking you in anticipation.

Forwarded
Substinal
21/12/2020

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[Signature]
21/12/2020

[Signature]
Dr Abdul Razaq
Assistant Professor
Department of Biological Sciences
Faculty of Fisheries and Wildlife
Ravi Campus, UVAS

18/12/2020

**One Day Seminar
On
“Application of CRISPR Gene Editing Tool in Animal, Fungi and Plants”**

CRISPR genome editing has become one of the most recognizable, potentially revolutionary, and at times controversial techniques in biotechnology. Currently, scientists around the world are rapidly applying this technology in an attempt to treat certain forms of cancer, cure genetic diseases, and even improve crops. CRISPR is the powerful gene-editing technology that has the potential to transform science at an astonishingly rapid rate. It has enabled a simple and affordable way to manipulate and edit DNA, completely changing the face of genome engineering. Department of Biological Sciences, Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Ravi Campus, Pattoki is going to organize a One day training workshop entitled “Application of CRISPR Gene Editing Tool in Animal, Fungi and Plants”

Objectives:

- How to design target specific CRISPR tools
- Generation of guide RNA (gRNA)
- Transfection optimisation for efficient gene editing
- Determination of general editing efficiency with a PCR-based DNA mismatch method

Couse Duration: One day (December 23, 2020)
Course Timing: 10:00 am to 12:00 am
Venue: via google meet/Department of Biological Sciences, UVAS, Ravi Campus, Pattoki
Participation: Students and Teachers working in universities and research institutions
No. of Participants: 60
Resource Persons: Dr. Muhammad Bilal Bin Majeed,
Assistant Professor
Department of Animal Breeding and Genetics,
University of Veterinary and Animal Sciences,
Ravi campus, Pattoki.
E-mail: bilal.majeed@uvas.edu.pk

REGISTRATION FEE: Free of cost

REGISTRATION PROCEDURE For registration, E. mail secretary of event (e.mail address given below)

Dr. Abdul Razaq (Assistant Professor)
Chief Organizer
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E-mail: abdul.razaq@uvas.edu.pk

Dr. Beenish Aftab (Assistant Professor)
Secretary
Department of Biological Sciences, Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Ravi Campus, Pattoki
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Member Organizing Committee:

1. Dr. Mubashrah Munir
Associate professor
2. Dr. Sehrish Sadia
Assistant professor