

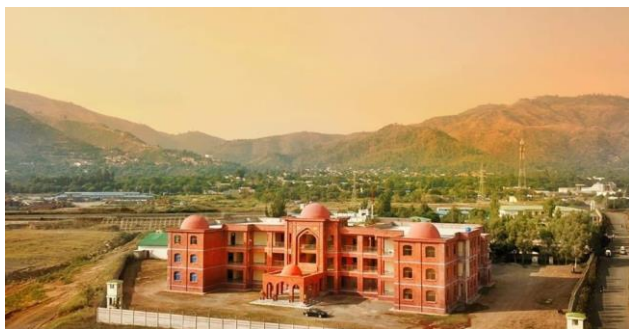
For Registration, please follow the link

https://docs.google.com/forms/d/e/1FAIpQLSfw3Yjfc1dnYXN4yEbpXdzTyXzS583SqEZFduedjr__J6iG4g/viewform?usp=sf_link

Registration Deadline:

Early Bird March 12, 2020

Late: March 15, 2020 (subject to the availability of seats)



Contact:

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Note: Accommodation will be arranged only on prior request and payment of extra accommodation fee.

Registration fee covers Workshop material, Lunch and tea during the sessions.

This workshop will provide a valuable opportunity for the undergraduate, graduate students, faculty members and the industries personnels to learn the basic and advanced techniques on phage therapy.

Key Organizers

Chief Patron: Prof. Dr. Mujaddad Ur Rehman, VC AUST, Dean Health Sciences, Chairman Department of Microbiology, AUST.

Patron: Dr. Shafiq Ur Rehman Head Phage Research Group, MMG, University of the Punjab

Facilitator: Dr. Iqbal Ahmad Alvi, Department of Microbiology, Hazara University, Mansehra

Muhammad Asif Shaheen, Department of Pathology, King Edward Medical College Lahore

Workshop Content

- ✓ Isolation of Lytic Bacteriophages
- ✓ Propagation of Bacteriophages
- ✓ Characterization of Bacteriophages
pH and Thermal Stability
Reduction Assay
Burst Size
Latent Period

Who Should Attend?

- Undergraduates/Postgraduates/PhD students
- Laboratory Personnel /Medical Personnel
- Researchers

Registration Fee

For Faculty Members 2000PKR

For Students 1500 PKR

For Current AUST Students 1000 PKR

Registration will be confirmed only after submission of Registration Fee.

Symposium on Phage Therapy & Training Workshop on Advances in Phage Therapy

March 19-20, 2020



Organized By:

**Department of Microbiology
Abbottabad University of Science
and Technology**

In collaboration with

**Phage Research Group
University of the Punjab, Lahore**



Program:
19 March, 2020

Welcome : 9:00 AM
Lecture: 9:30-11:00 AM
Bacteriophages and their therapeutic Potential (Dr. Shafiq Ur Rehman)
Antibiotic Resistance and Phage Therapy (Dr. Iqbal Ahmad Alvi)
Tea Break and Grouping 11:00-11:30
Session 1. 11:30-13:00
Isolation of Phages from Sewage Sample
Lunch and Prayer Break 13:00-14:00
Session 2: 14:00-16:00
Spot Test and Double Layer Agar Method to quantify Phages

20 March, 2020

Session 3.
Reduction Assay 9:00-10:00
Determination of Thermal and PH Stability of Phages 10:00-11:00
Tea Break: 11:00-11:15
Session 4
Determination of Burst Size and Latent Period 11:15-12:30
Group Discussion 12:30-13:00
Lunch and Prayer Break 13:00-14:00
Session 5
Certificate Distribution: 14:00-14:45

Phage Therapy and its Importance:

Due to antimicrobial resistance in bacteria it has become difficult to treat bacterial pathogens. The rise of super-bugs has put a question mark on antimicrobial therapies. No new antibiotic have been discovered in the last decade, due to this scenario, WHO predicted that the world is going towards pre-penicillin era by 2050 and has declared a global emergency.

A lot of research work is going on to search for alternative antimicrobial treatment strategies. Phage therapy is among one such alternative. Bacteriophages have been approved for controlling pathogens in packed foods such as *Listeria monocytogens*. Some topical ointments and bandages have also been approved for human use such as "PHAGODERM" and "PHAGESTI". Still there are questions whether Phage therapy is useful and has no harm to human? Will the immune system not be disturbed by the Phages? Will use of phages as therapeutics be safe? Will there be any resistance in bacteria against bacteriophages?

To address such questions a wide ground is available to play with and find the role of phages as therapeutics.

