MEETING OF ASIA FOR MUSHROOM SCIENCE 10

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### ABSTRACT SUBMISSION FORM

To: **Scientific Chair**

Meeting of Asia for Mushroom Science (MAMS) 10

**c/o Dr. Nurshamimi Nor Rashid**

Department of Molecular Medicine

University of Malaya, 50603 Kuala Lumpur, Selangor

Email your Abstract to: mams10malaysia@gmail.com

Name of Presenting Author\* :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email address\*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Corresponding Author\*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email (Corresponding Author)\*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title of Paper Presented\*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Type of Presentation\*: Oral

 Poster

Abstract:

Please include Title, Authors and Affiliations. (See sample below)

**SAMPLE ABSTRACT**

**PHAGE DISPLAY IN THE STUDY OF HEPATITIS B VIRUS**

**TAN WEN SIANG1,** KONG WAI LONG2 & SURAINI BT HASHIM1\*

1Department of Microbiology, Faculty of Biotechnology and Biomolecular Sciences; Institute of Bioscience, Universiti Putra Malaysia, 43400 UPM Serdang, Malaysia

2Department of Molecular Medicine, University of Malaya, 50603 Kuala Lumpur

\*Corresponding author: suraini@upm.edu.my

Bacteriophages have had a tremendous impact in the development of molecular biology. They contributed significantly in understanding the fundamentals of DNA replication, transcription, translation, recombination and regulation. The first genome to be sequenced was from phage ФX174. Restriction and modification enzymes encoded by phages and their hosts were exploited in gene cloning. Phages M13 and λ have been utilized as cloning and sequencing vectors. Over the past decade, bacteriophages especially Ff, λ and T7, have been exploited widely to display peptides or proteins on the surfaces of their particles. This approach is also known as phage display. The potential usage of phage display is not limited to molecular biology alone as it accelerates new findings in the fields of biotechnology, pharmacology, structural biology, cellular biology, clinical diagnosis and other biological sciences. This talk focuses on the applications of phage display in gene delivery and on designing immunogens, inhibitors and diagnostic reagents to control viral hepatitis B.

**Keywords:** bacteriophage, hepatitis B, phage display, immunogens, gene delivery