MEETING OF ASIA FOR MUSHROOM SCIENCE 10

November 4th-6th, 2019; Double Tree by Hilton, Melaka, MALAYSIA

### ABSTRACT SUBMISSION FORM

To: **Scientific Chair**

Meeting of Asia for Mushroom Science (MAMS) 10

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

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

3-5 Keywords\*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**

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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