

## YURAN PENYERTAAN REGISTRATION FEE

### RM 250.00 Peserta/Per Participant

\* The registration fee will only cover course material, food & certificate.

Payment can be made by cheque to:  
Bendahari Universiti Sains Malaysia.

Pembayaran melalui tunai/ draf bank/ kad kredit/ purchase order (PO)/ local order (LO) perlu dilakukan sebagaimana butiran dibawah:

Payment via cash/ cheque/ bank draft/ credit card/ purchase order (PO)/ local order (LO) should be made payable as below :

Penama akaun/ account name:  
**Nama Penerima : Universiti Sains Malaysia**  
**Nama Bank: CIMB Bank Berhad**  
**Akaun : 98986101400371**

Bayaran perlu dijelaskan **sebelum 1 Disember 2017**. Sebarang pembatalan perlu dimaklumkan sebelum tarikh berikut.  
Payment to be received by **1<sup>st</sup> December, 2017**. Any cancellation must be informed before the following date.

## PENGINAPAN ACCOMMODATION

Peserta bengkel perlu membayar untuk penginapan sendiri. Sila hubungi nombor berikut untuk tempahan.

Workshop participants will have to pay for their own accommodation. Kindly call the following numbers for reservation:

- 1) Rumah Tamu USM - (604) 6532050
- 2) Equatorial - (604) 6327000
- 3) Vistana - (604) 6468000
- 4) B-suite - (604) 6467777
- 5) Eastin - (604) 6121111

## PETA MAP DIRECTION



## BORANG PERDAFTARAN REGISTRATION FORM

NAMA/NAME : \_\_\_\_\_

POSISI/POSITION : \_\_\_\_\_

ORGANISASI/ORGANIZATION : \_\_\_\_\_

ALAMAT/ADDRESS : \_\_\_\_\_

NO PEJABAT/OFFICE PHONE : \_\_\_\_\_

NO FAX/OFFICE FAX : \_\_\_\_\_

Mobile/H/P NO : \_\_\_\_\_

EMAIL : \_\_\_\_\_

TANDATANGAN/SIGNATURE : \_\_\_\_\_

TARIKH/DATE : \_\_\_\_\_



## URUSETIA SECRETARIAT

Sebarang pertanyaan boleh diajukan kepada:  
For any enquiries please contact :

Nama/ name : Nur Sabrina Mohd Yusof  
No. Tel/ Phone. No. : 04-6535224/013-3005517  
Alamat/Address : Pusat Penyelidikan Dadah dan Ubat – Ubatan, Universiti Sains Malaysia.



# Bukti Saintifik Mengenai Kesan Penggunaan Ketum Di Malaysia

## Scientific Evidence On The Effects Of Ketum Use In Malaysia

# 4 & 5 DISEMBER 2017

9.00 AM - 5.00 PM  
AUDITORIUM MURAD,  
SAINS@USM  
BUKIT JAMBUL, PENANG.

Terhad Kepada/  
Limited to  
**100**  
Peserta  
Sahaja/ Participants Only

## PENGENALAN

Ketum (*Mitragyna Speciosa* Korth) merupakan sejenis pokok perubatan yang boleh dijumpai di negeri-negeri utara Semenanjung Malaysia. Daun Ketum telah digunakan sejak dahulu sebagai penawar perubatan dan juga untuk kesan 'stimulant' di kalangan pekerja buruh. Selain daripada itu, Ketum juga telah digunakan dikalangan penagih candu semenjak abad ke-19 sebagai pengganti kepada candu. Sejak kebelakangan ini Ketum mendapat perhatian daripada pihak regulatori dan perubatan kerana penggunaan Ketum dilaporkan membawa beberapa kesan sampingan. Hingga kini, amalan penggunaan Ketum di kalangan masyarakat tempatan dilihat tidak memberi kesan-kesan buruk. Pada masa kini, Ketum disalahgunakan oleh golongan remaja untuk kesan psikotropik hingga menyebabkan ramai mempunyai kesukaran untuk berhenti daripada pengambilan Ketum. Beberapa kajian telah dijalankan untuk melihat kesan penggunaan Ketum ke atas manusia dan haiwan. Hasil penyelidikan di Pusat Penyelidikan Dadah dan Ubat-ubatan akan dikongsi bersama peserta bengkel.

## INTRODUCTION

*Ketum (Mitragyna Speciosa Korth) is a medicinal tree that can be found in the northern states of Peninsular Malaysia. Ketum leaves have been used for a long time as a medical cure and also for its 'stimulant' effects among manual labourers. In addition, Ketum has also been used among opium addicts since the 19th century as a substitute for opiates. In recent years, Ketum has gained attention from regulatory and medical authorities as the use of Ketum is reported to have some side - effects. To date, the practice of Ketum's use among locals is seen to have no adverse effects. Lately, Ketum is being abused by adolescents for its psychotropic effects, causing many to have difficulties abstaining from its use. Several studies have been conducted to observe the effects of ketum usage on humans and animals. The research findings at the Center for DRUG Research will be shared with the workshop participants.*

## OBJEKTIF

- Memberi pendedahan mengenai sejarah dan trend penggunaan ketum di Malaysia
- Memberi pendedahan mengenai kesan sampingan penggunaan ketum ke atas manusia dan haiwan.
- Pendedahan kepada data saintifik berkaitan kajian Ketum di Pusat ini.
- Membincangkan isu-isu semasa mengenai trend penggunaan ketum di Asia Tenggara dan di negara barat.

## OBJECTIVES

- To provide exposure on ketum consumption history in Malaysia.
- To provide exposure on the side - effects of ketum use in humans and animals.
- To provide scientific data pertaining to Ketum's study at this Center.
- To discuss current issues regarding ketum use trends in Southeast Asia and in western countries.

## TENTATIF PROGRAM/

### DAY 1 "KETUM EFFECTS IN HUMAN"

Masa / Time	Program/ Programme
9.00 9.30 am	Pendaftaran Registration
9.30 10.00 am	Ucapan Pembukaan Opening Address
10.00 10.15 am	Makan pagi Morning Break
10.15 11.15 am	Pengetahuan Terkini mengenai Ketum oleh Prof Sharif Mahsufi Mansor Current knowledge on Ketum by Prof Sharif Mahsufi Mansor
11.15 12.15 pm	Corak Penggunaan Ketum di Malaysia oleh Dr. Darshan Singh Patterns of Ketum use in Malaysia by Dr. Darshan Singh
12.15 12.30 pm	Sesi soal jawab Q & A
12.30 2.00 pm	Makan Tengahari Lunch
2.00 3.00 pm	Kesan Penggunaan Ketum ke atas Manusia oleh Dr. Darshan Singh Side effects of Ketum use in Humans by Dr. Darshan Singh
3.00 3.15 pm	Sesi soal jawab Q & A
3.15 3.30 pm	Minum Petang Afternoon Break
3.30 4.30 pm	Komplikasi Psikologi Penggunaan Ketum oleh Dr. Mohammad Farid Leong Abdullah Psychological Complications of Ketum use by Dr. Mohammad Farid Leong Abdullah
4.30 5.00 pm	Sesi soal jawab/Perbincangan Q & A / Discussion

## TENTATIF PROGRAM/

### DAY 2 "KETUM EFFECTS IN HUMAN"

Masa / Time	Program/ Programme
9.00 10.00 am	Kesan Fitokimia oleh Prof.Sharif Mahsufi Mansor Phytochemistry of Ketum by Prof. Sharif Mahsufi Mansor
10.00 10.15 am	Minum Pagi Morning Break
10.15 11.15 am	Ketoksikan Ketum oleh Dr. Darshan Singh Ketum Toxicity by Dr. Darshan Singh
11.15 12.15 am	Kesan farmakologi Ketum oleh Prof Madya. Zurina Hassan Pharmacological effects of Ketum by Assoc Prof Zurina Hassan
12.15 12.30 pm	Sesi soal jawab Q & A
12.30 2.00 pm	Makan Tengahari Lunch
2.00 3.00 pm	Kesan Ganjaran Ketum ke atas Haiwan oleh Prof Madya. Zurina Hassan Rewarding properties of Ketum on animal by Assoc Prof Zurina Hassan
3.00 3.15 pm	Sesi soal jawab Q & A
3.15 3.30 pm	Minum Petang Afternoon Break
3.30 4.30 pm	Kesan kognitif ketum ke atas Haiwan oleh Prof Madya. Zurina Hassan Cognitive effects of Ketum on animal by Assoc Prof Zurina Hassan
4.30 4.45 pm	Sesi soal jawab/Perbincangan Q & A / Discussion
4.45 5.00 pm	Upacara Penutup Closing ceremony

## PENGERAMAH/ SPEAKERS



- 1 Prof Dr. Sharif Mahsufi Mansor, University Lecturer, Centre for Drug Research, USM
- 2 Dr Darshan Singh, University Lecturer, Centre for Drug Research, USM
- 3 Assoc Prof Zurina Hassan, University Lecturer, Centre for Drug Research, USM
- 4 Dr. Mohammad Faris Leong Bin Abdullah, University Lecturer, IPPT, USM



## KUMPULAN SASARAN/ TARGET GROUP

1. Pihak penguatkuasa (PDRM, KKM, AADK, Penjara, Kastam, Unit Penyeludupan)
2. Pensyarah/ Penyelidik
3. NGO
4. Pelajar
5. Syarikat Farmaseutik Masyarakat
6. Eksekutif Syarikat
7. Masyarakat
8. Pengamal Perubatan Moden/Tradisional