

**The 2nd International Conference of
The Arab Society for Medical Research
November, 11- 13th, 2008
Cairo, Egypt**

ورشة عمل

"التقنيات المختلفة لفصل المركبات الفعالة من مصادرها الطبيعية"

**Different Strategies for the Purification of Bioactive Natural Products for
Pharmacological Evaluation.**

Workshop Director

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Background:

The systematic study of the natural sources for discovering bioactive natural products and related pharmacological studies have emerged as one of the most important part in modern drug discovery programs. And the isolation of bioactive compound in pure form for structural determination and different pharmacological studies is critical initial step to reach the final goal.

Objectives:

This workshop divides into two parts:

- 1- Theoretical background on different types of natural products and their methods of isolation, including physical and chemical detection (e.g. terpenoids, flavonoids, proanthocyanidins, xanthones, coumarins,.....etc).
- 2- Practical training on the most important and sophisticated techniques in use for isolation of pure natural compounds (HPLC, MPLC, open column, and TLC) including: design, running and the practical tricks during the isolation process.

The over all goal of this workshop is discussing all parameters related to the isolation and the purity of the isolated compounds for pharmacological studies.

Program

The workshop will start after the opening ceremony of the conference and will be divided into two sessions for three days.

Preliminary Program

1st Day

Action	Time	subject
- Registrations and Opening Ceremony	10-12 p.m	
- Theoretical part (session 1)	12-2.00 p.m	Terpenoids
- Extraction, Open column and TLC of the total extract, (session 2, practical)	4-7 p.m	

2nd Day

Action	Time	subject
- Theoretical part (session 1)	9.00-12.00 am	Flavonoids & proanthocyanidins
- MPLC (reverse and normal phases), (session 2, practical)	12.30-7 p.m	

3rd Day

Action	Time	subject
- Theoretical part (session 1)	9.00-12.00 am	Xanthones and coumarins
- HPLC (reverse phase), (session 2, practical)	12.30-4.0 p.m	

For more information: www.asmr.eg.net