## رتبه سوم خارجی

## Foreign Third Winner

**Project Title:** 

Effect of High Temperature and Nutritional Factors on Thrombosis in Brain Microvessels

Researcher:

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Country:

Egypt

University:

Malaya



**عنوان طرح:** اثر حرارت بالا و عوامل تغذیه بر (گرفتگی) مویرگهای مغزی

محقق:

دكتر فاروق السّبان

کشور:

بصر

دانشگاه:

مالايا

## Abstract:

The objective for this project is 3-fold:

- 1-To develop a reliable method for induction of platelet aggregation (THROMBOSIS) in animal model.
- 2-To Study the effect of nutritional and environmental factors on thrombosis (INVIVO).
- 3-To assess drugs and natural substances for their anti thrombotic activity.

A methodology was devised and employed in further studies. Heat threshold thrombosis was  $43.1=1^{\circ c}$  and arteriolar diameter narrowed consider - ably under hyperthermic conditions. Water deprivation and exposure to the metal "lead" aggravated thrombosis (made clots occur easily) while aspirin and garlic delayed thrombosis and helped keep microvesseles open for blood flow to the brain of mice. Further studies are under way to determine the effect of diabetes mellitus on thrombosis under high temperature conditions.