



# ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE

TO PAY A PERMANENT TRIBUTE TO GALILEO GALILEI, FOUNDER OF MODERN SCIENCE  
AND TO ENRICO FERMI, "THE ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



INTERNATIONAL SCHOOL OF PHARMACOLOGY  
DIRECTOR: G.P.VELO

## Course

### **“Eicosanoids in cardiovascular disease”**

Erice, Sicily, June 19th-23rd 2011

Organizers: P. Minuz, J. Ritter, D. Sacerdoti and GP. Velo

**June 19, 2011**

*Arrival of participants*

**June 20, 2011**

9:15 Welcome and Historical Excursus  
**GP. Velo**

#### Session 1.

9:30

#### **“EICOSANOIDS, ENDOTHELIUM, VASCULAR FUNCTION AND DISEASE”**

(Chairmen: **GP. Velo, P. Minuz**)

**J.C. McGiff**

CYP450 ARACHIDONIC ACID METABOLITES: A PERSONAL OVERVIEW

**P. Wong**

EPOXYDATION OF EICOSANOIDS: GENERATION OF BIOLOGICAL ACTIVE  
MEDIATORS

Discussion

10:45-11:00 *Coffee break*

**W. Campbell**

REGULATION OF VASCULAR TONE BY ENDOTHELIAL EICOSANOIDS

**P. Patrignani**

ROLE OF PROSTANOIDS IN ENDOTHELIAL CELL FUNCTION, IN HEALTH AND  
DISEASE

12:50-14:30 *Lunch*



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## Session 2.

14:30

### **“EICOSANOIDS, ENDOTHELIUM, VASCULAR FUNCTION AND DISEASE”**

(Chairmen **J. Ritter, D. Sacerdoti**)

#### **G.Folco**

TRANSCELLULAR BIOSYNTHESIS OF LEUKOTRIENES: THE DANGEROUS LIASONS  
BETWEEN NEUTROPHILS AND VASCULAR ENDOTHELIUM

#### **D. Sacerdoti**

ARACHIDONIC ACID METABOLITES AND ENDOTHELIAL DYSFUNCTION OF  
CIRRHOTIC PORTAL HYPERTENSION

#### **S. Choplicki**

METHYLNICOTINAMIDE (MNA); IS IT AN ENDOGENOUS REGULATOR OF COX-2/PGI<sub>2</sub>  
PATHWAY IN THE VASCULAR WALL?

#### **C. Fava**

CARDIOVASCULAR RISK AND GENETIC POLYMORPHISMS IN EICOSANOID  
BIOSYNTHESIS AND METABOLISM

16:45-17:00 *Coffee break*

### 17:00-18:30 Round Table **“EICOSANOIDS AS BIOMARKERS IN CARDIOVASCULAR DISEASE”**

Chairman: **C. Patrono**, Discussants: G. Folco, J.C. McGiff, P. Minuz, P. Patrignani, P. Wong

*Dinner*

## **June 21, 2011**

## Session 3.

9:00

### **“EICOSANOIDS, ARTERIAL HYPERTENSION, RENAL FUNCTION AND DISEASE”**

(Chairmen: **P. Minuz, J. Ritter**)

#### **J. Capdevila**

THE CYTOCHROME P450 ARACHIDONATE MONOOXYGENASES: NEW VISTAS FOR AN  
OLD ENZYME SYSTEM. "ROLES IN RENAL PHYSIOLOGY AND BLOOD PRESSURE  
REGULATION"

#### **K.U. Malik**

CONTRIBUTION OF CYTOCHROME P450 1B1 TO HYPERTENSION AND ASSOCIATED  
PATHOPHYSIOLOGY: A NOVEL TARGET FOR ANTIHYPERTENSIVE AGENTS

#### **M. Schwartzman**

20-HETE, VASCULAR BIOLOGY AND HYPERTENSION

10:30-10:45 *Coffee break*

Secretariat of the Centre: Via Guarnotta 26-91016 Erice – Italy – Tel. 0923 869133 – Telefax 0923 869226 Telex 910366 CCSEM-I

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## **B. Escalante**

PROSTAGLANDINS AND NITRIC OXIDE IN THE KIDNEY FAILURE DEVELOPMENT

## **N. Ferreri**

EICOSANOIDS AND TNF IN THE KIDNEY

## **P. Minuz**

EICOSANOIDS IN SECONDARY HYPERTENSION

12:50-14:30 *Lunch*

## Session 4.

14:30

**“EICOSANOIDS, ARTERIAL HYPERTENSION, HEART AND ATHEROSCLEROSIS”**

(Chairmen: **D. Sacerdoti, GP. Velo**)

## **M. Carroll**

ROLE OF THE A<sub>2A</sub> RECEPTOR-EET PATHWAY IN HYPERTENSION

## **W. Schunck**

PROTECTION AGAINST ARRHYTHMIA AND SUDDEN CARDIAC DEATH BY  
CYTOCHROME P450-DEPENDENT METABOLITES OF OMEGA-3 FATTY ACIDS

## **D. Fitzgerald**

LINOLEIC ACID (BIOLOGICAL EFFECTS IN ATHEROSCLEROSIS)

## **O. Belton**

CLA BIOLOGICAL EFFECTS IN ATHEROSCLEROSIS

16:45-17:00 *Coffee break*

17:00-18:30 Round Table **“ANIMAL MODELS AND GENETICS OF EICOSANOIDS”**.

(Chairman: **G. FitzGerald**, Discussants: C. Fava, J. Hwa, P. Patrignani, W. Schunck, M. Schwartzman)

20.00 *Official dinner and Sicilian Music & Songs*

**June 22, 2011**

## Session 5.

9:00

**“EICOSANOIDS, PLATELETS, THROMBOSIS AND INFLAMMATION”**

(Chairmen: **P. Minuz, D. Sacerdoti**)

## **J. Oates**

EICOSANOIDS AND PLATELET FUNCTION

## **J. Hwa**

DIABETES MELLITUS, PLATELET HYPERACTIVITY AND THROMBOXANE; SWEET  
AND STICKY

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**G. Davì**

VARIABILITY IN THE RESPONSE TO ANTIPLATELET TREATMENT IN PATIENTS WITH  
DIABETES MELLITUS

10:45-11:00 *Coffee break*

Session 6.

11:00

**“THERAPY”**

(Chairmen: **J. Ritter, GP. Velo**)

**C. Patrono**

ASPIRIN REVISITED, 40 YEARS AFTER JOHN VANE’S DISCOVERY

**G. FitzGerald**

SHIFTING TARGETS FOR ENZYME INHIBITION IN THE EICOSANOID CASCADE

**R. Flower**

ANTI-INFLAMMATORY DRUGS AND THE EICOSANOIDS

12:50-14:10 *Lunch*

14:10-14:40

**N. Abraham**

EICOSANOIDS AND THERAPEUTICS OF CARDIOVASCULAR DISEASE

14:40-16:10 Round Table **“EICOSANOIDS AND THERAPEUTICS OF CARDIOVASCULAR  
DISEASE”**

(Chairman: **J. Ritter**, Discussants: W. Campbell, R. Flower, K.U. Malik, P. Minuz, C. Patrono)

16:30 *Bus to Segesta*

*Dinner*

**June 23, 2011**

*Departure of participants*