



Con il Patrocinio Assessorato
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Alta Formazione Regione Calabria



Società Italiana
di Farmacologia



UNIVERSITÀ DELLA CALABRIA
DIPARTIMENTO FARMACOBIOLOGICO
DOTTORATO DI RICERCA IN FARMACOLOGIA
E BIOCHIMICA DELLA MORTE CELLULARE



Azienda certificata per la progettazione ed
erogazione di eventi formativi in ambito
socio sanitario

Segreteria organizzativa:
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Titolo dell'evento:

X WORKSHOP ON APOPTOSIS IN BIOLOGY AND MEDICINE

Sala Stampa
Università della Calabria – Rende
29 – 30 Marzo 2007

Responsabile Scientifico

G. BAGETTA

Comitato Locale

**S. ANDO'
G. BAGETTA
M. T. CORASANITI
D. ROTIROTI**

Relatori

**G. BAGETTA - COSENZA
G. MELINO - ROME
G. BIGGIO - CAGLIARI
N.G. BOWERY - BIRMINGHAM
V. CUOMO - ROME
A. QUATTRONE - CATANZARO
L. ANNUNZIATO - NAPLES
D. AMANTEA - COSENZA**

**M. T. CORASANITI – CATANZARO
G. BONANNO – GENOVA
V. MOLLACE – CATANZARO
S. GAETANI - ROME
G. DI CHIARA – CAGLIARI
F. MORONI – FLORENCE
P. F. SPANO – BRESCIA
N.B. MERCURI - ROME**

Thursday, 29th March

17.00 Welcome address
Invited Opening Lectures
17.30 G. Melino - Rome
Death by the p73 family: from cancer to neurodegeneration
18.00 G. Biggio - Cagliari
The effect of chronic stress on GABAA receptor plasticity and function
18.30 N.G. Bowery - Birmingham
The discovery of GABA_B receptors: From bench to bedside

Friday, 30th March

9.00-13.30 MEDIATORS OF NORMAL AND PATHOLOGICAL NEURONAL FUNCTION
Chairpersons V. Cuomo - Rome and A. Quattrone - Catanzaro

9.00-9.25 L. Annunziato - Naples
Differential expression of Na⁺/Ca²⁺ exchanger in experimental brain ischemia
9.25-9.45 D. Amantea, G. Bagetta and M. T. Corasaniti - Cosenza, Catanzaro
Dissection of the dual role of neuroinflammatory mediators in brain ischemia
9.45-10.10 G. Bonanno - Genova
Excessive and precocious glutamate release in a mouse model of amyotrophic lateral sclerosis
10.10-10.35 V. Mollace - Catanzaro
The role of astrocytes in normal and pathological neural plasticity

10.35-11.00 Coffee break

DISCOVERY OF NOVEL NEUROTHERAPEUTICS
Chairpersons: G. Bagetta - Cosenza & N.B. Mercuri - Rome

11.00-11.25 V. Cuomo & S. Gaetani - Rome
Endocannabinoids: from discovery to the development of novel therapies
11.25-11.45 G. Di Chiara - Cagliari
Role of dopamine in the reward system and addiction
11.45-12.10 F. Moroni - Florence
Novel nuclear targets to reduce ischemic injury
12.10-12.35 P. F. Spano - Brescia
Novel targets for neuroprotection
12.35-13.00 General Discussion

The Workshop on Apoptosis in Biology and Medicine is organized in the frame of the PhD course on Pharmacology and Biochemistry of Cell Death run at the University of Calabria in consortium with the University Magna Graecia of Catanzaro and the University Tor Vergata of Rome. This will provide the students with the opportunity to meet with outstanding scientists of worldwide reputation in the field of pharmacology of cell death and repair and to discuss with them their research projects. The topics selected for this one and a half day meeting will range from basic mechanisms of neuronal cell death to the most recent experimental development of novel pharmacologic targets for therapeutical intervention. Starting in the year 1996 with the initial discussion on the biochemical and morphological features of apoptotic cell death and on the techniques developed for their identification, during the recent years the Workshop on Apoptosis in Biology and Medicine has been devoted to the discussion of hot topics concerned with the role of this type of cell demise in the development of human diseases like acute and chronic neurodegenerative disorders (stroke, Parkinson's and Alzheimer diseases, neuroAIDS etc.) and cancer. Decipheration of the human genome has posed new opportunities for a better understanding of the pathophysiological mechanisms underlying human diseases though limitations of a pure genomic approach to the development of novel therapeutics have emerged. Identification, however, of key cellular effector molecules yielded the proteomic approach to the study of mechanisms of cell death and repair generating important results mainly in the field of clinical oncology. In the frame of the depicted "omic" scenario of biomedical research the workshop is the venue where the fundamental role of the multidisciplinary approach typically used by Pharmacology in the development of novel therapeutics will be presented.