



# International Symposium on Drugs of Abuse

Sponsored by  
The International Drug Abuse Research Society  
([www.idars.org](http://www.idars.org))

July 28-29, 2008  
Azores  
Island of São Miguel  
Portugal

Topics covered:  
Drugs of Abuse and Neurotoxicity  
Pharmacokinetics and Toxicokinetics  
of Drugs of Abuse  
Drug Dependency  
Therapeutic Intervention  
Social Issues





## International Symposium on Drug Abuse

On behalf of the organizing committee of the International Symposium on Drugs of Abuse, we have the privilege to invite you to attend and participate at this Symposium to be held at the University of Azores, in the beautiful Island of São Miguel, Azores, on 28-29th July, 2008.

The island of São Miguel is the most populated of the nine volcanic islands in the archipelago of the Azores, situated in the middle of the Atlantic Ocean, approximately 1500 km from the European coast and 3900 km from the North American coast.

The themes of the symposium intend to cover the multiple aspects of drug abuse, from basic research to therapeutic intervention.

Our goal is that this symposium will be a rewarding experience to all participants.

We look forward to welcome you on the Island of São Miguel, Azores.

**Catarina Oliveira**

**Félix Carvalho**

### **Organizing and Scientific Committee:**

Catarina Oliveira (Chair), University of Coimbra

Félix Carvalho (Co-Chair), University of Porto

Syed Ali, National Center for Toxicological Research, USA

Maria de Lourdes Bastos, University of Porto

Tice Macedo, University of Coimbra

Carlos Alberto Fontes Ribeiro, University of Coimbra

Cristina Rego, University of Coimbra

João Capela, University Fernando Pessoa

Fernando Mendes (IREFREA)

### **Local Organizing Comitee:**

Nelson Simões, CIRN – University of Azores

Manuela Lima, CIRN – University of Azores

The symposium venue:

Azores University Campus

9501-801 Ponta Delgada

São Miguel

Azores

Portugal

Conference language: English.



## Preliminary Program

**Monday July 28, 2008**

07:30 – 09:00

Registration

09:00 – 09:30

### **Opening Ceremony**

University Rector

Representative from Azores Regional Government

Catarina Oliveira, Nelson Simões, Syed Ali

## **Session I:**

### **Drug of Abuse and Neurotoxicity: Molecular Mechanisms**

**Chairs:**

**Catarina Oliveira and Syed Ali**

#### **LECTURES**

09:30 - 10:00

#### **Stress, amphetamines and brain signaling pathways**

Diane Miller

10:00 -10:30

#### **The role of neuroinflammation in neurotoxicity: lessons from MPTP and methamphetamine.**

James O'Callaghan

10:30 -11:00

#### **Amphetamines toxicity: bridging drugs of abuse and neurodegenerative disorders**

Francesco Fornai

11:00 – 11:30

Coffee Break

11:30 -12:00

#### **Does heroin induce neuronal dysfunction?**

Ana Cristina Rego

12:00 -12:30

#### **Cocaine and epigenetic regulation: Induction of MeCP2 and decrease in cocaine self-administration by HDAC inhibitors.**

Jean Zwiller

#### **ORAL COMMUNICATIONS**

12:30 – 12:45

#### **Neuron-astrocyte interaction in glutamate dynamics evoked by amphetamines**

FC Pereira, E Marques, AS Travassos, J Gonçalves, V Oliveira, M Andrade, AP Silva, CA Fontes Ribeiro, T Morgadinho, SF Ali and Macedo

TRA

12:45 – 13:00

#### **Protective role of neuropeptide Y against retina neural cells toxicity induced by ecstasy.**

C Cavadas, AR Álvaro, J Martins, E Fernandes, F Carvalho and AF Ambrósio

**12:30 – 14:00**

**Lunch**



Monday July 28, 2008

**Session II: Drug of Abuse: Toxicokinetics and Toxicodynamics**

**Chairs: Felix Carvalho and João Capela**

**LECTURES**

- 14:00 – 14:30 **Triggering factors involved in programmed cell death induced by amphetamines**  
Joao Capela
- 14:30 – 15:00 **Synergism of hepatotoxic effects between ethanol and ecstasy**  
Helena Pontes
- 15:00 – 15:30 **Role of peroxynitrite in methamphetamine-induced dopaminergic neurotoxicity**  
Syed Ali
- 15:30 – 16:00 **Application of the electrophysiological methods to study cocaine neurobiology**  
Zbigniew Binienda
- 16:00 – 16:30 **GHB and its precursors: toxicology and pharmacokinetics**  
Timothy Maher
- 16:30 – 17:00 Coffee Break

**ORAL COMMUNICATIONS**

- 17:00 – 17:15 **Influence of CYP2D6 polymorphism on 3,4-methylenedioxymethamphetamine ('Ecstasy') cytotoxicity**  
H Carmo, M Brulport, M Hermes, F Oesch, R Silva, LM, Ferreira, PS Branco, D Boer, F Remião, F Carvalho, MR Schon, N Krebsfaenger, J Doehmer, ML Bastos, JG Hengstler
- 17:15 – 17:30 **Cellular mechanisms of cocaine and amphetamine neurotoxicity**  
Teresa Oliveira

**17:30 - 20:00** Poster session wine and cheese

**20:00** Conference Dinner



Tuesday July 29, 2008

**Session III: Drug Dependency: Self Administration, Neurobehavior**

**Chairs: Marco Diana and Rafael Maldonado**

**LECTURES**

- 09:00 - 9:30 **Involvement of the endocannabinoid system in drug addiction**  
Rafael Maldonado
- 9:30 - 10:00 **Self administration models of cocaine addiction and hippocampal synaptic plasticity**  
Emilio Ambrosio
- 10:00 - 10:30 **The role of dopamine systems in addictive states**  
Marco Diana

10:30 – 11:00 Coffee Break

**Session IV: Drug of Abuse and Therapeutic Intervention**

**Chairs: Tice Macedo and João Relvas**

- 11:00 – 11:30 **Update in the treatment of street heroin dependence: therapeutic association of buprenorphine+naloxone (Suboxone™; possibilities and limitations. A reflection based in clinical practice.**  
Luís Patrício
- 11:30 – 12:00 **Therapeutic strategies in Toxicodependence**  
João Relvas

**ORAL COMMUNICATIONS**

- 12:00 – 12:15 **The amphetamine-dependent behaviour but not the amphetamine-induced dopamine increase may be prevented by exercise**  
CA Fontes Ribeiro, E Marques, FC Pereira, AP Silva and TRA Macedo
- 12:15 – 12:30 **Acetyl-L-Carnitine protective effects on MDMA-induced Neurotoxicity**  
Teresa Summavielle
- 12:30 – 14:00 Lunch**



**Session V:**  
**Chairs:**

**Drug of Abuse and Social Issues**  
**Fernando Mendes and Casimiro Balsa**

**LECTURES**

- |                    |  |
|--------------------|--|
| 14:00 – 14:30      | <b>Recreational Culture as a Tool to Prevent Risk Behaviours</b><br>Fernando Mendes  |
| 14:30 – 15:00      | <b>Social consequences and drug dependences among drug users in Portugal</b><br>Casimiro Balsa   |
| 15:00 – 15:30      | <b>Portuguese drug strategy: social dimension</b><br>João Goulão   |
| 15:30 – 16:00      | <b>Characterisation of drug abuse patients in treatment at IDT network (National Institute for Drugs and Drug Abuse), Portugal</b><br>José Pádua |
| <b>16:00-16:30</b> | <b>Closing Ceremony</b>  |



## REGISTRATION FORM

Family Name: \_\_\_\_\_ First Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Institution \_\_\_\_\_  
 Department \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ FAX: \_\_\_\_\_  
 Email: \_\_\_\_\_

■ **REGISTRATION FEE** – Checkmark the appropriate box (es)

Registration Category	Before June 2 <sup>nd</sup> (Early Registration)	After June 2 <sup>nd</sup>
Standard	<input type="checkbox"/> 230 €	<input type="checkbox"/> 280 €
Student*	<input type="checkbox"/> 180 €	<input type="checkbox"/> 230 €

All registration fees are in **Euros**

\* Full time students **MUST** provide proof of status when submitting their registration form and payment (copy of valid student ID card or a letter from their institution or program director)

▪ **Full payment of the meeting registration fee is required in order to process your registration form.**

**Registration fees include:**

- Participation in all sessions of the Symposium
- Symposium Proceedings
- Coffee Breaks
- Symposium lunches
- Symposium Dinner

**ACCOMPANYING PERSON**

1. Surname \_\_\_\_\_ First Name \_\_\_\_\_

2. Surname \_\_\_\_\_ First Name \_\_\_\_\_

**Accompanying fee**  €80 per person

Number of accompanying persons ..... x 80 euros = .....

**Accompanying person fees include:**

- Symposium Dinner

**Return this form and respective payment to:  
See the next page**



**INVOICE DATA:**

Institution / Company: \_\_\_\_\_

Address \_\_\_\_\_

Postal Code / Country \_\_\_\_\_

VAT Code \_\_\_\_\_

Invoice and receipt will be delivered at the welcome desk.

**BANK TRANSFER:**

**Transfer to:** ICETA – Instituto de Ciências e Tecnologias Agrárias e Agro-Alimentares

**Bank:** Banco BPI, SA

**Account number:** 1-3511423.000.001

**NIB:** 0010 0000 3511 4230 0016 4

**IBAN:** PT50 0010 0000 3511 4230 001 64

**SWIFT:** BBPIPTPL

**Reference:** "ISDA 08", name and surname

-All bank charges must be paid by the participants and will not be covered by the conference.

-After payment, please send us by e-mail a copy of the bank transfer with the identification of the participant to [marta.rodriques@fc.up.pt](mailto:marta.rodriques@fc.up.pt)



## **Abstract Submission**

Authors are invited to submit abstracts for oral and poster communications.

### **Preparation of Your Abstract**

THE TITLE SHOULD OCCUPY NO MORE THAN TWO LINES AND CONTAIN NO MORE THAN 160 UPPER CASE CHARACTERS, INCLUDING SPACES.

Authors and affiliations (Name Surname1 & Name Surname2, Institution and Address1, Institution and Address2).

Abstracts should be word-processed as a Word document on an A4 (210x297mm) page (portrait, single column) with margins set to: Top and Bottom: 2.5cm, Left and Right: 3cm.

Please use Times New Roman 12pt font. Please avoid figures or tables. Single spacing should be used, including between. Paragraphs should not be indented. Bold type should not be used. Studies involving human subjects are assumed to have been approved by the Ethics Committee of the investigator's institution.

Abstracts should start with an introduction and, where appropriate, a statement of the aims of the work followed by methods, results (in the form of experimental data) and end with a conclusion and references. Where animals are used, the species, strain, sex and weight range should be given. Details of statistical analysis, n numbers and means and estimate of variability should be quoted where relevant. The use of novel acronyms and numbers for compounds should be avoided unless a reference or structure is provided. References in the text should follow a standard style: either 'Jones (1990) reported' or, after a statement '(Jones, 1990;

Brown et al., 1990)'. Use et al. for more than one name. References should be listed in alphabetical order at the end of the text, omitting the titles. In multiple author references, the number of names should be limited to one and 'et al.' inserted where necessary. Greek letters (eg. a, b, m, etc.) should be generated by using the font "symbol".

To avoid problems with different versions of Word processors, please save documents as Rich Text Format (RTF).

## **Dead-line: 2nd June, 2008**

**After registration, submit abstract by email to:**

**Syed F. Ali, Ph.D.**  
**Senior Biomedical Research Scientist**  
**Head, Neurochemistry Laboratory**  
**Division of Neurotoxicology, HFT-132**  
**National Center for Toxicological Research/FDA**  
**3900 NCTR Road, Jefferson, AR 72079-9502**  
**Tel: 870-543-7123; Fax: 870-543-7745**  
**email: [Syed.ali@fda.hhs.gov](mailto:Syed.ali@fda.hhs.gov)**