

Review of Clinical Pharmacology and Pharmacokinetics

ΕΠΙΘΕΟΡΗΣΗ ΚΛΙΝΙΚΗΣ ΦΑΡΜΑΚΟΛΟΓΙΑΣ ΚΑΙ ΦΑΡΜΑΚΟΚΙΝΗΤΙΚΗΣ
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INTERNATIONAL EDITION

VOLUME 22, 2008 ❁ No 2

Issue Devoted to Papers Presented at the

*5th Panhellenic Congress
of Pharmacology*

*Organized by the
Hellenic Society of Pharmacology*

23-25 May, 2008
Athens, Greece

ISSN 1011-6583

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Review of Clinical Pharmacology and Pharmacokinetics
Επιθεώρηση Κλινικής Φαρμακολογίας και Φαρμακοκινητικής
Epitheorese Klinikes Farmakologias kai Farmakokinetikes
INTERNATIONAL EDITION



Journal of Applied Pharmacology and Current Therapeutics Reviews, Review Articles on
Drugs and Drugs Therapy, Original Papers and Practical Therapeutics Articles



Published three times a year by PHARMAKON-Press
145 Michalakopoulou str., 115 27 Athens, GREECE
Phone-Fax (0030)2107784700 and (0030)2107700663
Email: stplessas@hotmail.com



Τετραμηνιαία Ιατροφαρμακευτική Έκδοση
Εφηροσμένης Φαρμακολογίας, Φαρμακοκινητικής και Θεραπευτικής

Ιδιοκτήτης-Υπεύθυνος κατά το Νόμο: Ελένη Πλέσσα και ΣΙΑ Ε.Ε.
Μιχαλακοπούλου 145, 11527 Αθήνα, Ελλάς
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*5th Panhellenic Congress
of Pharmacology*

*Organized by the
Hellenic Society of Pharmacology*

23-25 May, 2008
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VOLUME 22, 2008 ❁ No 2

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Letter from Guest Editor

The progress and contributions of 20th century pharmacology has been immense with over 20 pharmacologists to have received Nobel Prizes. This field of medical studies covers many areas; it is built upon and at the same time incorporates many disciplines such as biochemistry, biology physiology, pathology, anatomy, molecular biology, while the development of new analytical and experimental techniques and instruments has given a new boost in pharmacological research. Yet, although a remarkable progress has been made in developing new drugs and in understanding how they act, the challenges are endless. Integrating a depth of knowledge in many related scientific disciplines, pharmacologists offer a unique perspective to solving drug and chemical related problems which impinge on human health, with ultimate goal the treatment and prevention of major diseases.

The 5th Panhellenic Congress of Pharmacology focuses on four *hot* subjects: Regenerative Pharmacology, Herbal Medicines, Pharmacology of Abuse and Dependence, and Education in Pharmacology.

- *Regenerative Pharmacology* is one of the newest areas in Pharmacology, represents a groundbreaking field of research and has the potential to radically alter the treatment of diseases and disorders.

- *Herbal Medicines* have acquired an important percentage among the drug used; according to WHO 80% of people worldwide rely on herbal medicines for some aspect of their primary health care. This continuously increasing use of plant medicines imposes the need for establishing new regulations.

- *Pharmacology of Abuse and Dependence*, still not a well defined area, presents a lot of challenge for researchers and clinicians.

- *Education in Pharmacology* remains a hot subject in the Medical education, following the knowledge *explosion* of the last decades accompanied by a decreasing reliance on didactic teaching. The crucial question is: how and what should we teach?

We hope that the round table discussions along with the invited lectures, included in this abstract book, will raise new and intriguing ques-

tions that will further stimulate research, and will contribute to new therapeutic approaches and attitudes.

I would like to thank the Editorial Board of *Review of Clinical Pharmacology and Pharmacokinetics* in particular Journal Editors Prof. S.T. Plessas and Dr C.T. Plessas for invitation and for providing the suitable and high-standard forum through which new research findings will become available to the scientific community.

The Guest Editor

Charis Liapi

Assist. Professor in Pharmacology
Medical School, University of Athens
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Neurochemical Alterations Following Acute Immune Stimulation: a Male *versus* Female Study

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Key words: HPLC, serotonin, female, rat

INTRODUCTION

Major depression affects about 10 percent of the population, about 19 million American adults yearly, with females outnumbering males 2:1. Data accumulated largely during the last two decades advocate the innate inflammatory immune response as a mechanism that may contribute to the pathophysiology of this affective disorder, mainly through alterations in the ability of immune cells to express proinflammatory cytokines (1,2). Acute immune stimulation leads ultimately to the generation of a depressive-like behavioural syndrome in rodents, termed as sickness behaviour (2-4).

METHODS

Male and female Sprague–Dawley rats, weighing 200-300 g, were used throughout this study. The inflammatory agent lipopolysaccharide (LPS) and vehicle were administered to different groups of rats. Two hours after injection, the animals were sacrificed and discrete brain regions were dissected for monoamine analysis using High Performance Liquid Chromatography (HPLC).

RESULTS

Female rats appeared to be far more responsive than males against acute immune stimulation, as

evidenced by the serotonergic hyperactivity manifested in all brain regions examined. On the other hand, serotonergic activity in male rats was modified in a region specific manner.

DISCUSSION

These data demonstrate that neuronal serotonergic system is affected to a greater extent in female rats, and further accelerate our understanding regarding sex differences upon sickness establishment.

REFERENCES

1. Leonard B.E., Song C.: Stress, depression, and the role of cytokines. In: (Dantzer R., Wollman E.E., Yirmiya R., eds) Cytokines, Stress and Depression. Pp. 251-265, Kluwer Academic/Plenum Publishers, New York, 1999
2. Dantzer R., O'Connor J.C., Freund G.G., Johnson R.W., Kelley K.W.: 2007. From inflammation to sickness and depression: when the immune system subjugates the brain. *Nature Rev.* 9: 46-57 (2007)
3. Dantzer R.: Cytokine-induced sickness behavior: mechanisms and implications. *Ann. NY Acad. Sci.* 933: 222-234 (2001)
4. Konsman J.P., Parnet P., Dantzer R.: Cytokine-induced sickness behaviour: mechanisms and implications. *Trends Neurosci.* 25: 154-159 (2002)

* This research project was partially supported by national academic funding (KAPODISTRIAS)

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