

# *Review of Clinical Pharmacology and Pharmacokinetics*

ΕΠΙΘΕΟΡΕΣΕ ΚΛΙΝΙΚΕΣ ΦΑΡΜΑΚΟΛΟΓΙΑΣ ΚΑΙ ΦΑΡΜΑΚΟΚΙΝΗΤΙΚΕΣ  
ΕΠΙΘΕΩΡΗΣΗ ΚΛΙΝΙΚΗΣ ΦΑΡΜΑΚΟΛΟΓΙΑΣ ΚΑΙ ΦΑΡΜΑΚΟΚΙΝΗΤΙΚΗΣ  
INTERNATIONAL EDITION

VOLUME 22, 2008 ❁ No 2

Issue Devoted to Papers Presented at the

*5<sup>th</sup> 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.  
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*5<sup>th</sup> Panhellenic Congress  
of Pharmacology*

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## Letter from Guest Editor

The progress and contributions of 20<sup>th</sup> 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 5<sup>th</sup> 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*

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REVIEW OF CLINICAL PHARMACOLOGY AND  
PHARMACOKINETICS, INTERNATIONAL  
EDITION 22: 90 (2008)  
©PHARMAKON-Press

## Pathophysiology of Osteoplastic Metastasis in Prostate Cancer: Therapeutic Implications

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Prostate cancer exhibits a strong preference to form metastatic lesions in the bone marrow. Once bone metastasis is established, the cancer can no longer be cured and the only currently available options are palliative treatments that may improve survival and quality of life. The metastatic process is selective for cells that have survived the dynamic journey to the bone. Those cells that survive will extravasate into the bone marrow and produce osseous lesions. The prostate cancer cells usurp the homeostatic mechanisms within the bone marrow and alter the local cytokine milieu in favour of osteoblastic reaction coupled, however, with a pre-existing and continuously underlying osteoclastic component.

An important goal is to improve detection and treatment of locally invasive, circulating, or distant micrometastatic cancer cells. Following tumour expansion to the macrometastatic stage, the therapeutic focus should be placed not only on directly inducing cancer-cell apoptosis but also on targeting the multiple potential survival factors and their mechanisms of anti-apoptotic action. The concept of ASF therapy has added to the therapeutic armamentarium a low-toxicity modality that enhances the efficacy of existing treatment regimens of bone-cancer metastasis. A better understanding of the intercellular communications and tumour–stromal interactions in the bone microenvironment will facilitate the design of novel clinically applicable ASF strategies.



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