September 22, 2014

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 11937-Review_Revised.doc).

Title: *Harnessing pharmacological knowledge for personalized medicine and pharmacotyping: Challenges and lessons learned*

Author: Ioannis S. Vizirianakis

Name of Journal: *World Journal of Pharmacology*

ESPS Manuscript NO: 11937

The manuscript has been improved accordingly based on the points raised by the reviewers. In particular:

1. The text has been rewritten in the specified sections and now all the revisions appear in the new version of the manuscript.
2. The abstract has been rewritten to better summarize the issues discussed in the paper.
3. Several parts of the previous version of the manuscript have been revised to better clarify specific issues raised by the reviewers. The latter, especially relates with the fact to more focus on the new idea of developing PBPK models to advance personalized medicine decisions of practical clinical utility in drug delivery, i.e. pharmacotyping (PTx).
4. A new section has been included at the end to present the case of tamoxifen in exemplifying the topics discussed within the text.
5. A table has been also included to present predictive PGx biomarkers already cleared by drug regulatory agencies (FDA, EMA) for cancer drug therapy; such table enriches the information regarding the implementation of PGx knowledge in the clinical setting.

Thank you again for publishing my manuscript in the *World Journal of Pharmacology*.

Sincerely yours,

Ioannis S. Vizirianakis, Ph.D.
Associate Professor in Molecular Pharmacology
& Pharmacogenomics
Laboratory of Pharmacology
Department of Pharmaceutical Sciences
Aristotle University of Thessaloniki
GR-54124 Thessaloniki
Greece
tel.: +30-2310-997658
fax: +30-2310-997645
email: ivizir@pharm.auth.gr