

Accepted Manuscript

Integrating clinical metabolomics-based biomarker discovery and clinical pharmacology to enable precision medicine

Isabelle Kohler, Thomas Hankemeier, Piet H. van der Graaf, Catherijne A.J. Knibbe, J.G. Coen van Hasselt



PII: S0928-0987(17)30246-4

DOI: doi: [10.1016/j.ejps.2017.05.018](https://doi.org/10.1016/j.ejps.2017.05.018)

Reference: PHASCI 4032

To appear in: *European Journal of Pharmaceutical Sciences*

Received date: 9 May 2017

Revised date: ####REVISEDDATE###

Accepted date: 10 May 2017

Please cite this article as: Isabelle Kohler, Thomas Hankemeier, Piet H. van der Graaf, Catherijne A.J. Knibbe, J.G. Coen van Hasselt, Integrating clinical metabolomics-based biomarker discovery and clinical pharmacology to enable precision medicine, *European Journal of Pharmaceutical Sciences* (2017), doi: [10.1016/j.ejps.2017.05.018](https://doi.org/10.1016/j.ejps.2017.05.018)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Integrating clinical metabolomics-based biomarker discovery and clinical pharmacology to enable precision medicine

Isabelle Kohler^a, Thomas Hankemeier^a, Piet H. van der Graaf^b, Catherijne A. J. Knibbe^b, J. G. Coen van Hasselt^{b,*}

^aDivision of Analytical Biosciences, Cluster Systems Pharmacology, Leiden Academic Centre for Drug Research, Leiden University, Einsteinweg 55, 2300 RA Leiden, The Netherlands

^bDivision of Pharmacology, Cluster Systems Pharmacology, Leiden Academic Centre for Drug Research, Leiden University, Einsteinweg 55, 2300 RA Leiden, The Netherlands

* Corresponding author: Coen van Hasselt, Division of Pharmacology, Leiden Academic Center for Drug Research, Leiden University, Einsteinweg 55, 2300 RA Leiden, The Netherlands. E-mail: coen.vanhasselt@lacdr.leidenuniv.nl. Phone: +31 71 527 44 28

List of abbreviations

CNS, central nervous system; MS, mass spectrometry; PD, pharmacodynamics; PK, pharmacokinetics; QSP, quantitative systems pharmacology.

Keywords

metabolomics, biomarkers, precision medicine, pharmacokinetic-pharmacodynamic modeling, pharmacology

Download English Version:

<https://daneshyari.com/en/article/8512090>

Download Persian Version:

<https://daneshyari.com/article/8512090>

[Daneshyari.com](https://daneshyari.com)