



Advances and Challenges in Pharmacogenomics

Guest Editors:

Dr. Erika Cecchin

IRCCS Centro Di Riferimento
Oncologico Aviano, Experimental
and Clinical Pharmacology Unit,
Aviano, Italy

Dr. Gabriele Stocco

Department of Life Sciences,
University of Trieste, 34127
Trieste, Italy

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Message from the Guest Editors

Pharmacogenomics has the goal of improving therapeutic outcomes, increasing the efficacy of medications, and reducing adverse events by applying knowledge of patients' genetic profiles. Reproducible associations between interindividual variability in clinical response to medications and genetic variants have been reported for several drugs; however, implementation of this knowledge to improve therapeutic outcomes is still limited. This is due to several factors, among which include the need for improved resources and training about pharmacogenetics dedicated to health care providers, the need of clear guidelines on how to apply pharmacogenetic information to tailor drug therapy, the challenges of handling pharmacogenetics information in the everyday context of a polypharmacy treatment and of better understanding the molecular mechanisms that are at the basis of the association between genetic variants and interindividual variability in drug effects.





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