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Induced Pluripotent Stem Cells for Therapy Personalization in Pediatric Patients: Focus on Drug Induced Adverse Events.

Elena Genova, Federica Cavion, Marianna Lucafò, Luigina De Leo, Marco Pelin, Gabriele Stocco, Giuliana Decorti.

Abstract

Adverse drug reactions (ADRs) are one of the major clinical problems, especially in special populations, such as pediatric patients. Indeed, ADRs may be caused by a plethora of different drugs leading, in some cases, to hospitalization, disability or even death. In addition, pediatric patients may respond differently to drugs with respect to adults and may be prone to develop different kinds of ADRs, leading, in some cases, to more severe consequences.

To improve the comprehension, and thus the prevention, of ADRs, the set-up of sensitive

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Keywords: Induced pluripotent stem cells, disease modeling, drug adverse effects, pediatric patients, therapy personalization, innovative pharmacological models, hepatotoxicity, pancreatitis.

Abstract: Understanding the biological and molecular processes underlying human pathologies is fundamental in order to develop innovative approaches to ...

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Author: Elena Genova, Marco Pelin, Katsunori Sa...

Publish Year: 2017

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In this review, recently developed disease models based on iPSCs will be discussed, with a particular focus on available models of drugs' adverse effect, in particular hepatic/pancreatic toxicity. Keywords: Induced pluripotent stem cells, disease modeling, drug adverse effects, pediatric patients, therapy personalization, innovative ...

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Human embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs) are able to replicate indefinitely and differentiate into most of the body's cell types, including hepatocytes. Hepatocyte-like cells (HLCs) which are differentiated from human ESCs and iPSCs would be useful for basic research, development, regenerative medicine and ...

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