World Journal of Pharmacology & Toxicology

Review Article Open Access

Induced Pluripotent Stem Cell-derived Cardiomyocytes can Serve as Acellular Models for Cardiac Toxicity Testing

Moyes Yuan*

National Laboratory of Bio-macromolecules, Institute of Biophysics, Chinese Academy of Sciences, Chaoyang, Beijing, China

Abstract

Induced pluripotent stem cell (iPSC) science is developing thrilling new possibilities for cardiovascular lookup by

or divulge drug sensitivities. In this review, the practicable usefulness of iPSC-derived cardiomyocytes in drug improvement as nicely as in drug toxicity checking out is discussed, with a center of attention on the achievements that have been already made in this regard. Moreover, the critical steps that have to be taken earlier than this science can be widely used in drug discovery and toxicology assessments are highlighted.

Ke[illegible]d: [illegible]

I[illegible]

[illegible] PSC [illegible] PSC-de[illegible] [1].

P[illegible] PSC [illegible] Ce -De[illegible] ed Ca[illegible] D[illegible] De[illegible] a d T[illegible] Te[illegible]

[illegible] [2]. [illegible]

[illegible] [3]. I [illegible] (HEK) [illegible]

ce (ca d [illegible] c e) [illegible]

***Corresponding author:** Moyes Yuan, National Laboratory of Bio-macromolecules, Institute of Biophysics, Chinese Academy of Sciences, Chaoyang, Beijing, China. E-mail: moyes.y@gmail.com

Received: 23-Jul-22, Manuscript No. wjpt-22-70094; **Editor assigned:** 25-Jul-22, PreQC No. wjpt-22-70094 (PQ); **Reviewed:** 08-Aug-22, QC No. wjpt-22-70094; **Revised:** 16-Aug-22, Manuscript No. wjpt-22- 70094 (R); **Published:** 23-Aug-22, DOI: 10.4172/wjpt.1000160

Citation: Yuan M (2022) Induced Pluripotent Stem Cell-derived Cardiomyocytes can Serve as Acellular Models for Cardiac Toxicity Testing. World J Pharmacol Toxicol 5: 160.

c ae a c b a ce be a ee a ca d c e b e : ce a a -, e c a - a d da - e e e . W e ca be e a ded a be e d e e c ec ca e a e e e e e e , add a d e d de a d ca a a e e e b a ce ca a be d ed e ead a e a ce . Pa c a , b e b cc a a a d d c e e a a ab e e ce , c e e a ac c a e e ce a a a -, e c a - da - e. I a a e ece a ec e e ec a ca d ac b e ec ca , a d e e a e bee ade e a ce c a e e e e e a e e ce -de ed ca d c e [7]. F e a e, b NRG-1b/ERBB a a bee e bea e a e da - e ce , a d e d d ca bea a a e e c a ec ca e d a ca d ac ESC d e e a .