



Drug-induced Ototoxicity: Mechanisms and Otoprotective Strategies

Guest Editors:

Prof. Peter S. Steyger

Prof. Dr. Sonia M. Rocha-Sanchez

Dr. E. Jeffrey North

Dr. Tal Teitz

Deadline for manuscript
submissions:

closed (30 June 2022)

Message from the Guest Editors

Cells within the inner ear are protected by the blood-labyrinth barrier (BLB) and by the epithelial cells lining the endolymphatic duct. In homeostatic conditions, this strict permeability barrier is required to maintain the electrophysiological environment that enables sensitive auditory and vestibular functions. However, in circumstances that require therapeutic interventions for otoprotection or repair of inner ear structures, the permeability of the BLB becomes a significant challenge. Furthermore, preclinical models that facilitate the discovery of otoprotective compounds and mimic the medical settings in which ototoxicity occurs to validate and optimize candidate otoprotective compounds are critically required. In this research topic, original research and review manuscripts are invited in two broad categories: (i) Mechanisms of ototoxicity ; (ii) Strategies for otoprotection.





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Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

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