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# Cell Line for Drug Ototoxicity Screening and Hearing Research

Tech ID: 24290 / UC Case 2014-749-0

## **INNOVATION**

Dr. Federico Kalinec of UCLA's Department of Head & Neck Surgery has developed a cell line that expresses unique markers of sensory and supporting cells of the mammalian auditory organ, the organ of Corti. The cells, HEI-OC1 cells, are sensitive to drugs known to be ototoxic, such as aminoglycoside antibiotics and cisplatin, and unaffected by drugs known to be non-ototoxic. Thus, HEI-OC1 cells are useful for their applications in pharmacological drug research, chemical ototoxicity screening, and hearing research.

## **RELATED MATERIALS**

- A cochlear cell line as an in vitro system for drug ototoxicity screening. Audiol Neurootol. (2003)
- In vitro assessment of antiretroviral drugs demonstrates potential for ototoxicity. Hearing Research. (2014)

> Acetaminophen and NAPQI are toxic to auditory cells via oxidative and endoplasmic reticulum stress-dependent pathways. Hearing Research. (2014)

## CONTACT

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## **INVENTORS**

► Kalinec, Federico

#### **OTHER INFORMATION**

#### **KEYWORDS**

cell line, ear, inner ear, ototoxicity,

screening, drug discovery,

pharmaceutical research, research

tools, otolaryngology, organ of Corti

#### **CATEGORIZED AS**

- Medical
  - Research Tools
  - Screening
  - ► Therapeutics
- Research Tools
  - Cell Lines

**RELATED CASES** 2014-749-0

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