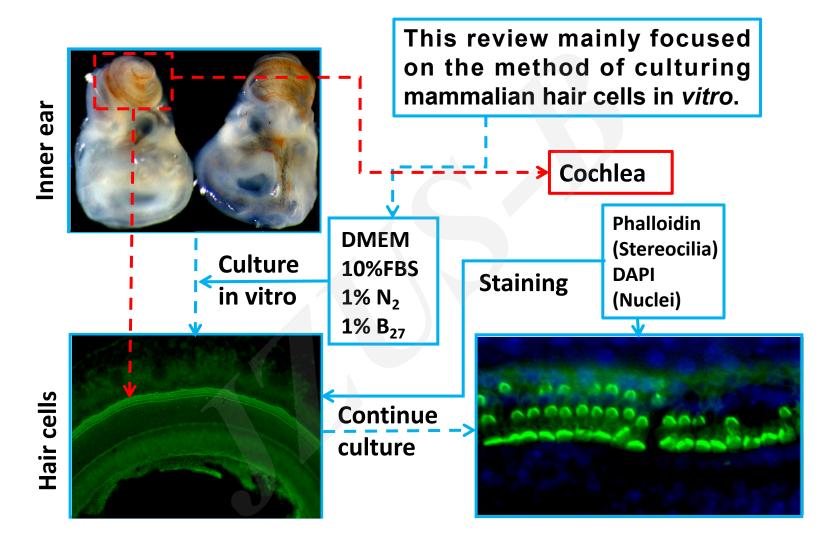
<u>Cite this as</u>: Lu-wen ZHANG, Xiao-hui CANG, Ye CHEN, Min-xin GUAN, 2019. In vitro culture of mammalian inner ear hair cells. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, 20(2):170-179. https://doi.org/10.1631/jzus.B1700613

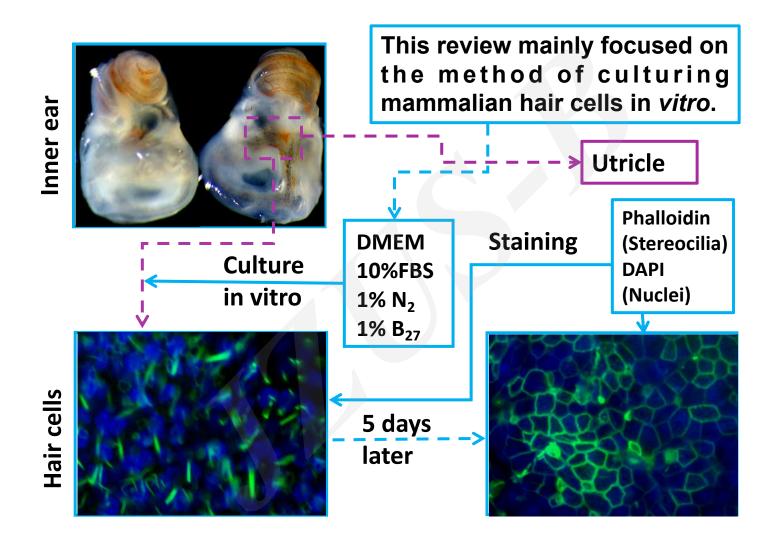
## In vitro culture of mammalian inner ear hair cells

Key words: Inner ear, Hair cell, In vitro culture system

## Research Summary



## Research Summary



## Innovation points

Table 1 | Summarized all of the methods of culturing the hair cells in vitro. (Rat tail collagen, Type I, 10× basal medium eagle, 2% sodium carbonate; 9:1:1)

- 2 | Used the collagen gel matrix as the culture supporter.
- 3 | Chosed DMEM (supplemented with 5% Horse serum and 5% FBS) as the first step culture medium.
- 4 Added the N2,B27 as supplements into the culture medium.
- 5 | No penicillin and streptomycin were added into the culture medium.
- 6 | Before opening the cochlea, added the penicillin into the HBSS to avoid contamination.