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Plenary Lecture, Special Lecture : 5A Hall

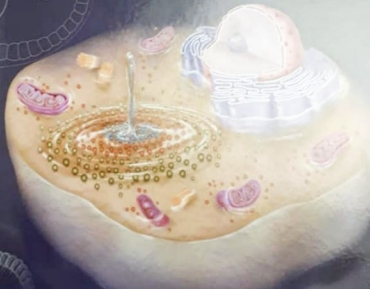
Symposium : 8th 223-222, 6th 223-224, 8th 223-226

Exhibition and Poster Presentation : 10 Hall

# APICA

Joint Conference of  
8<sup>th</sup> Asia Pacific International Congress of Anatomists and  
68<sup>th</sup> Korean Association of Anatomists

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observed that there is a transition from the primary cilia to the kinocilia at the onset of hair cell differentiation. Although we did not observe an obvious difference in their microstructures, there was a clear change in their ability to respond to SHH signaling. We are currently investigating how such transition contributes to mediate diverse roles of SHH signaling essential for cochlear development. Taken together, our results demonstrate the complexity of ciliary mutants and the importance of the primary cilia in mediating multiple roles of SHH signaling during cochlear development.

**Key Words:** Primary Cilia, Shh Signaling, Cochlea, Auditory Hair Cell, Development, Hearing Loss

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## P226

### The Comparison of *Eucommia ulmoides* And *Cibotium barometz* Ethanol Extract On Fetal Growth of Wistar Rat Fetus

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*Eucommia ulmoides* and *Cibotium barometz* are traditional Chinese medicine that is widely consumed all over the world, especially by pregnant women to strengthen the womb. Safety in consuming *Eucommia ulmoides* and *Cibotium barometz* needs to be investigated because most of the consumers are pregnant women who feared those herbs would affect fetal development. The purpose of the study is to find the effect of *Eucommia ulmoides* (EU) and *Cibotium barometz* (CB) ethanol extract on fetal growth. By experimental research, using male and female rats mated up until pregnant. Pregnant female rats were divided into 7 groups which were given the treatments

