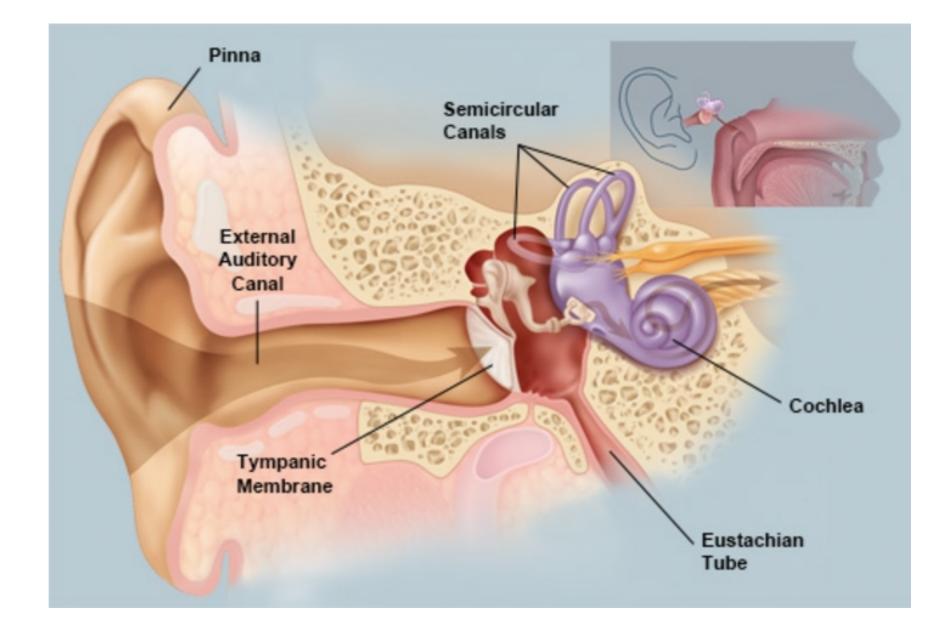
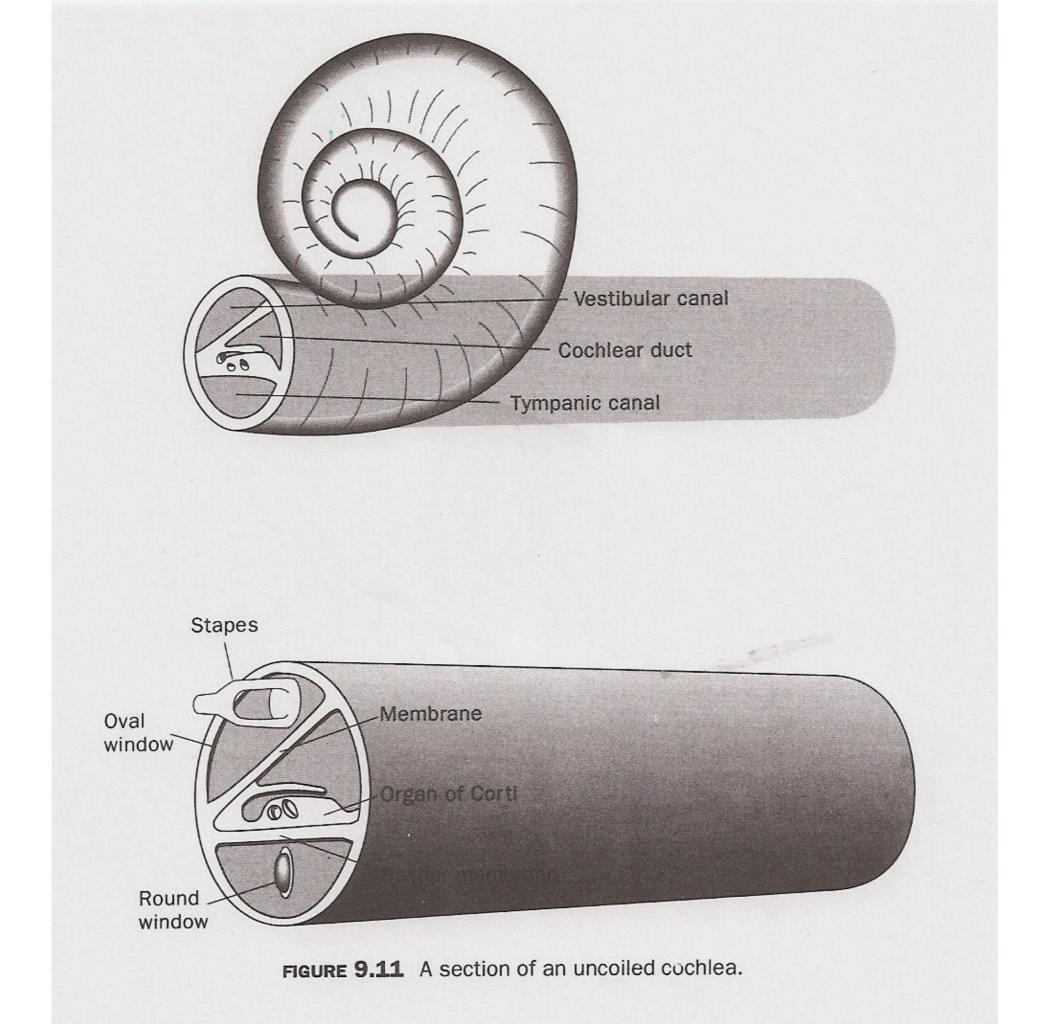
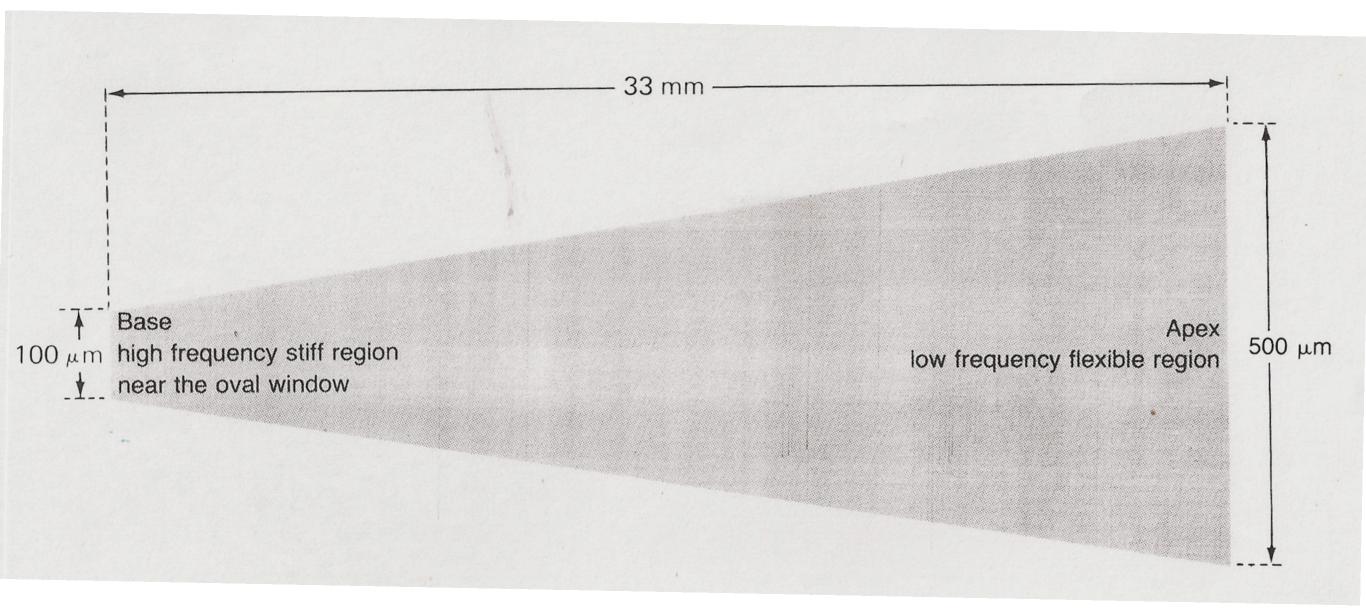
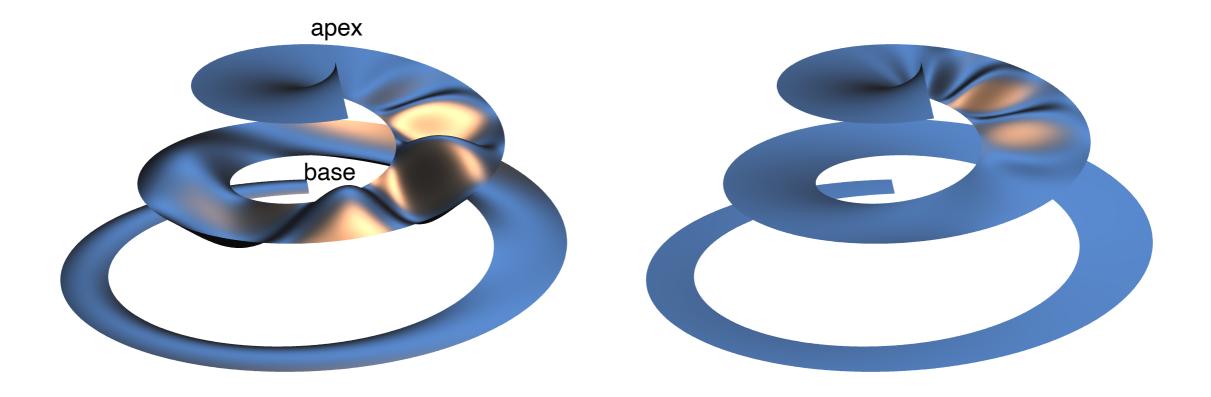
## Auditory coding

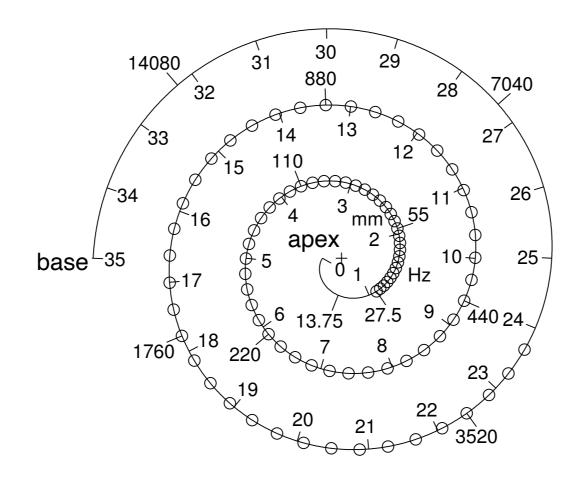


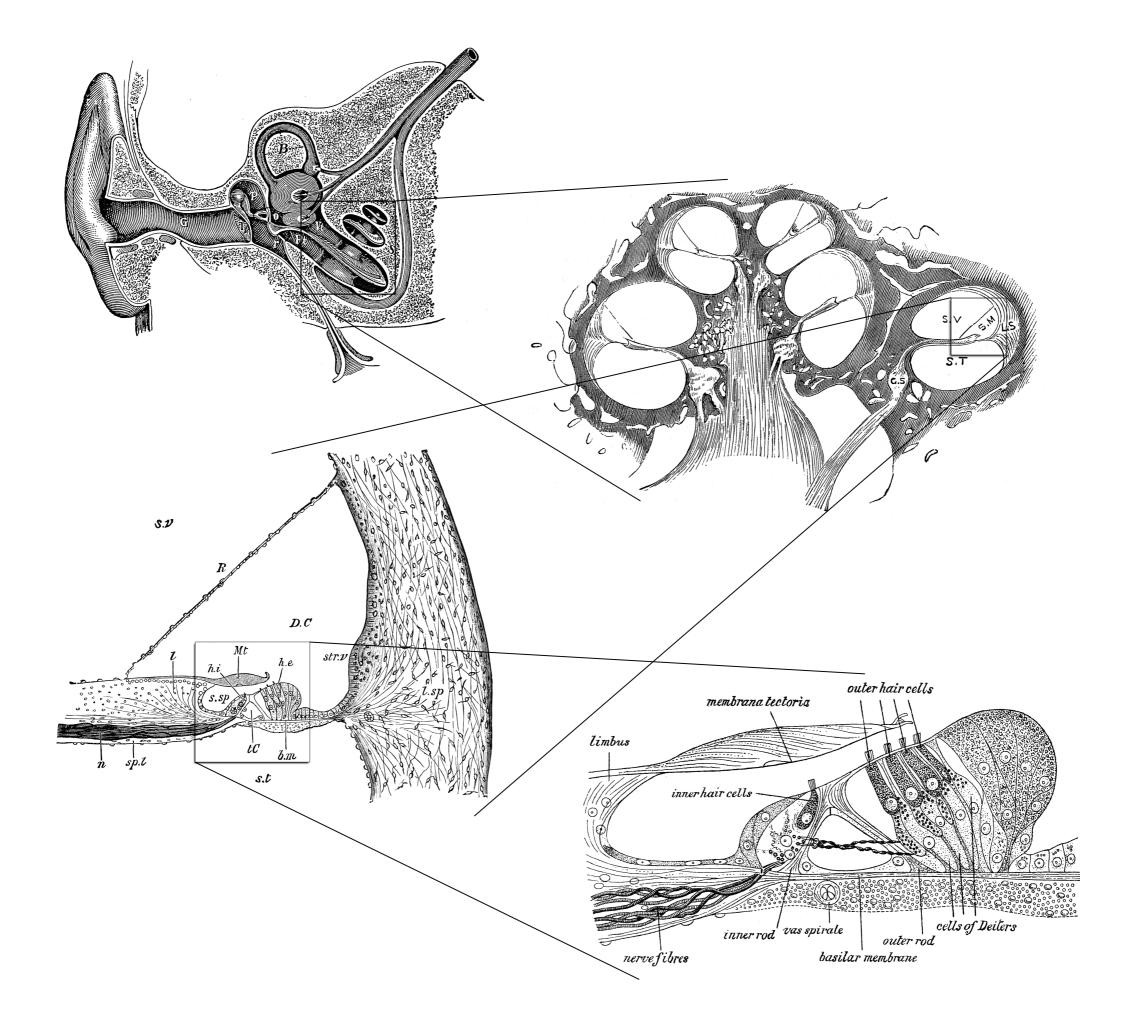


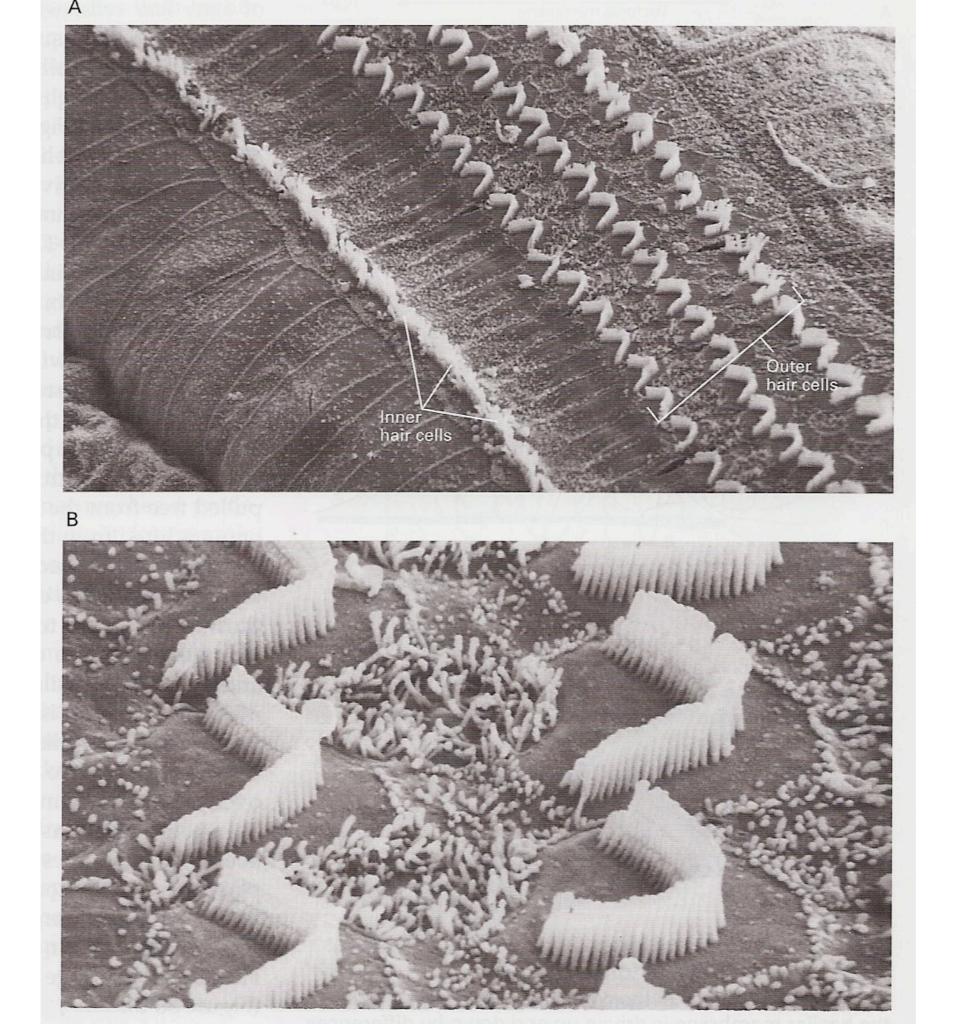
## Basilar membrane

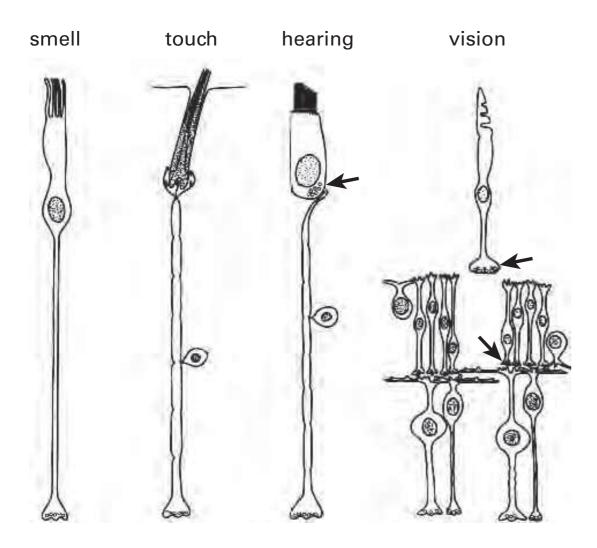


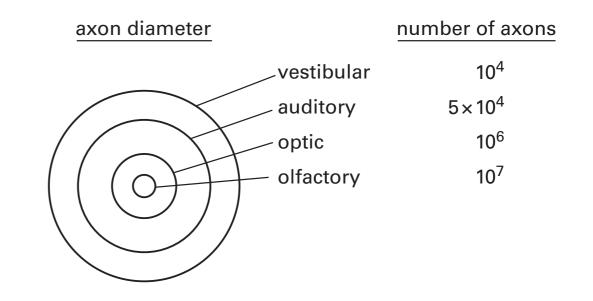




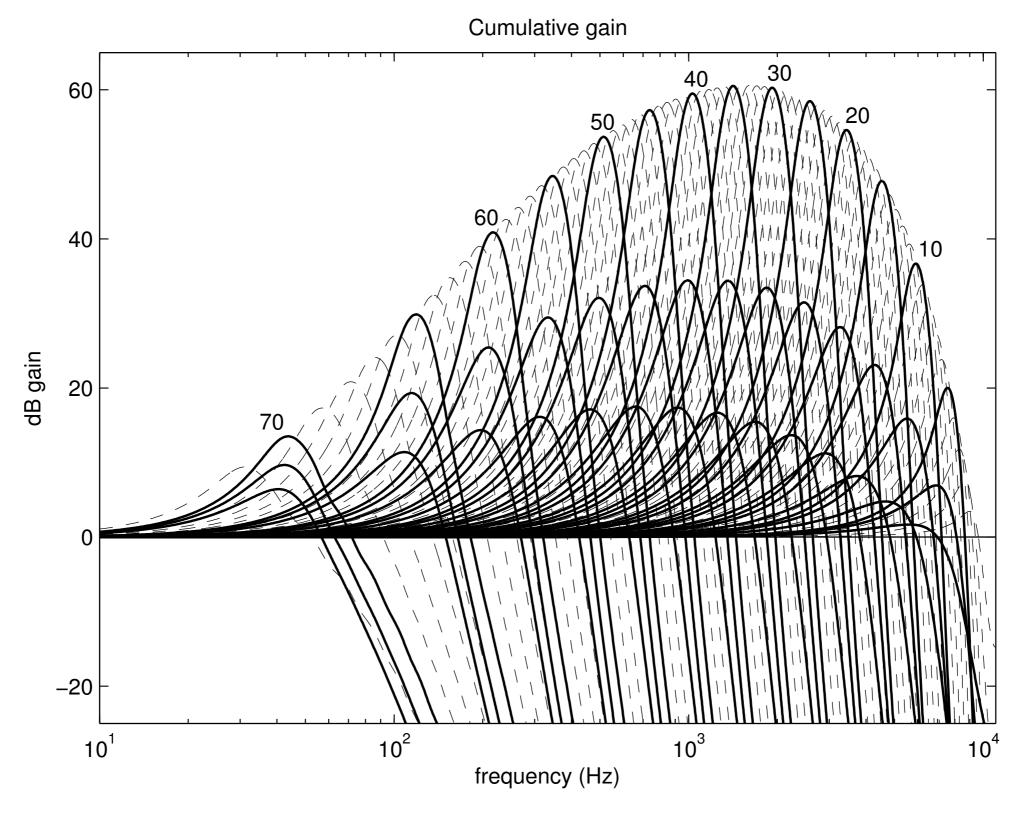




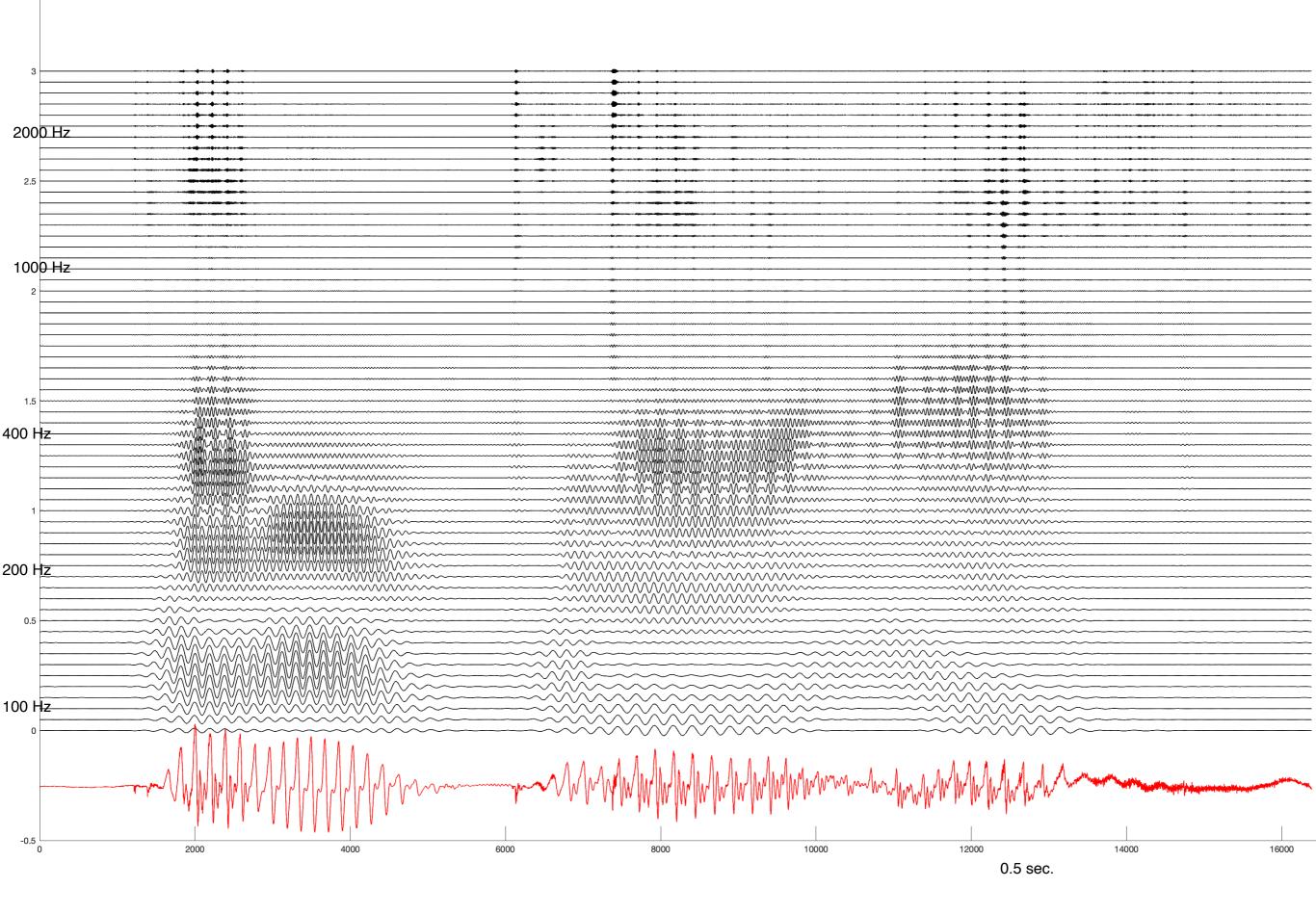


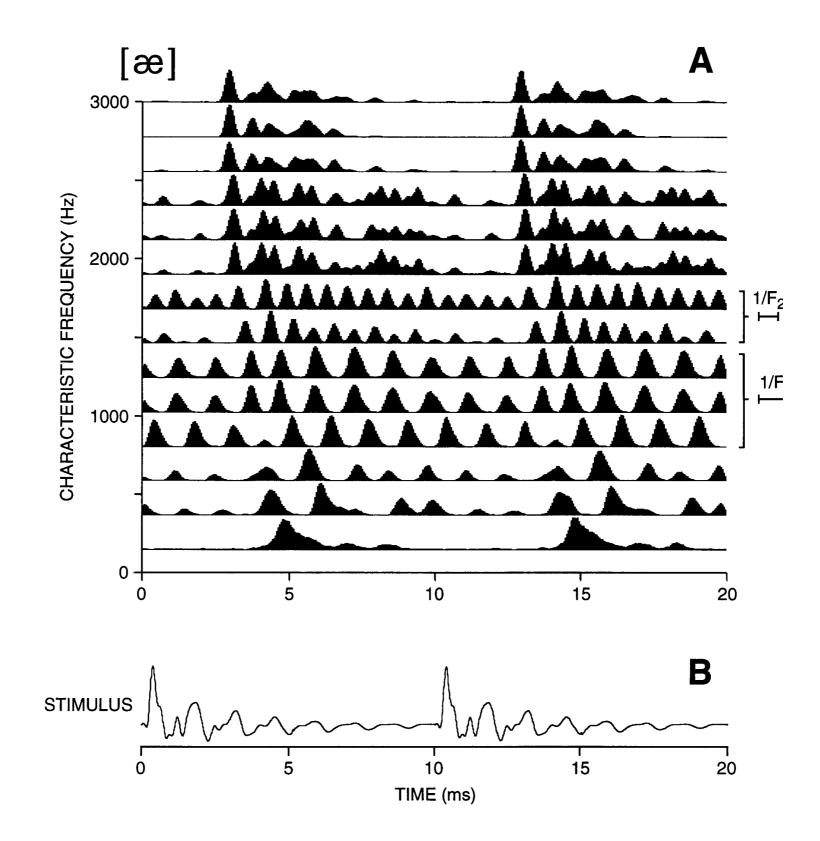


## 'Auditory Filters'



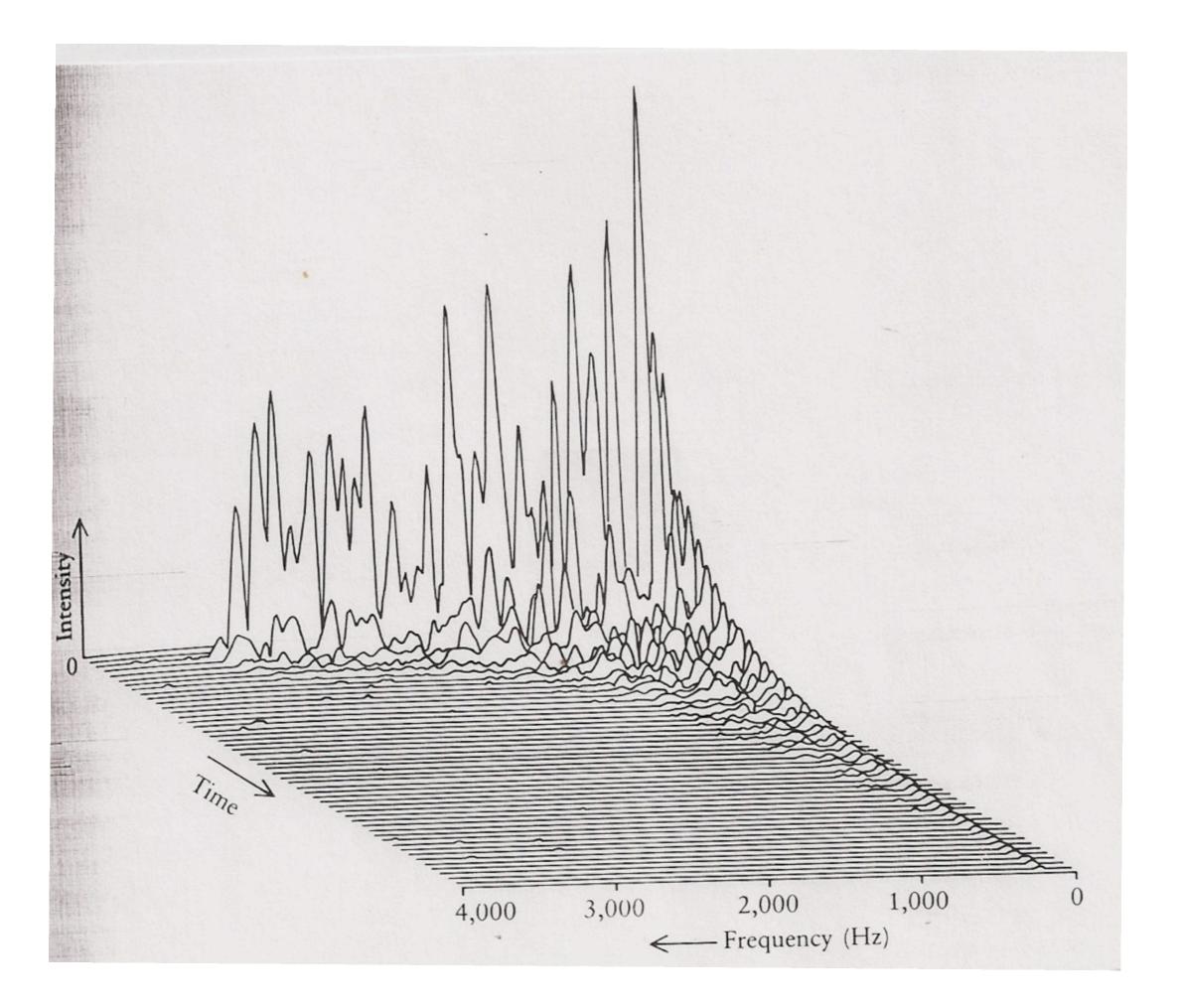
(from Lyon 2017)

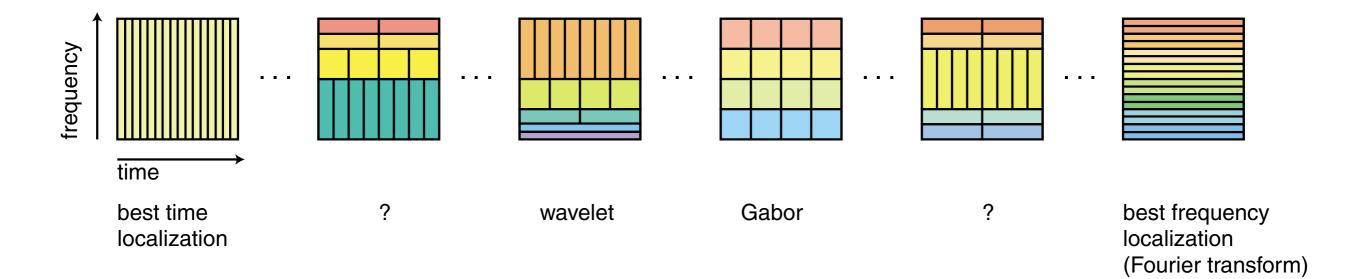




(from Delgutte 1997)

## Fourier analysis vs. Time-frequency analysis



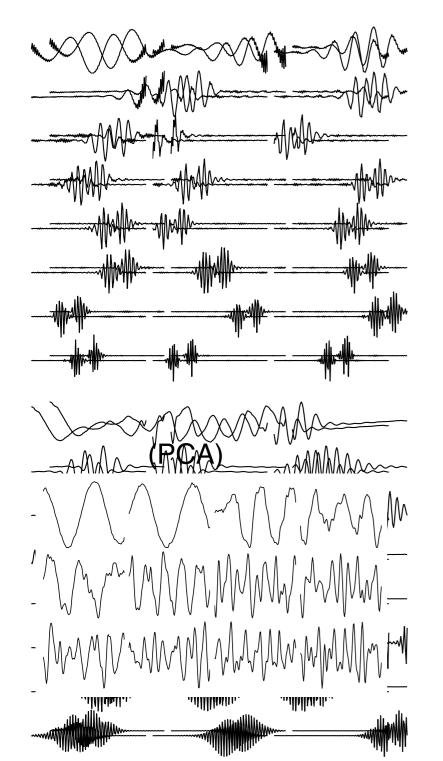


(from Olshausen & O'connor 2002)

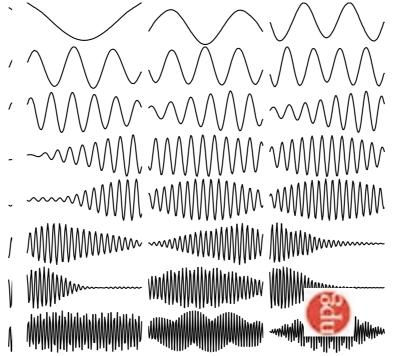
# Independent Components Analysis (ICA)

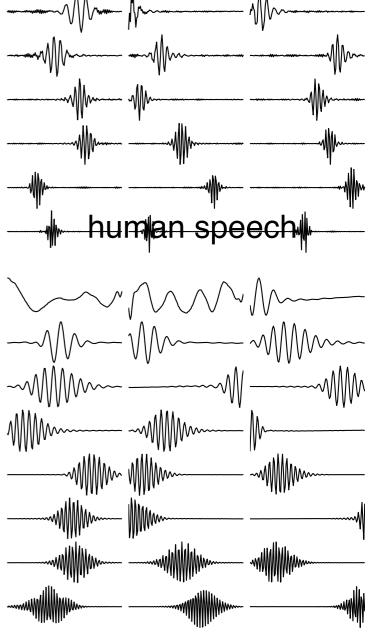
## ICA of natural sound (Lewicki 2002)

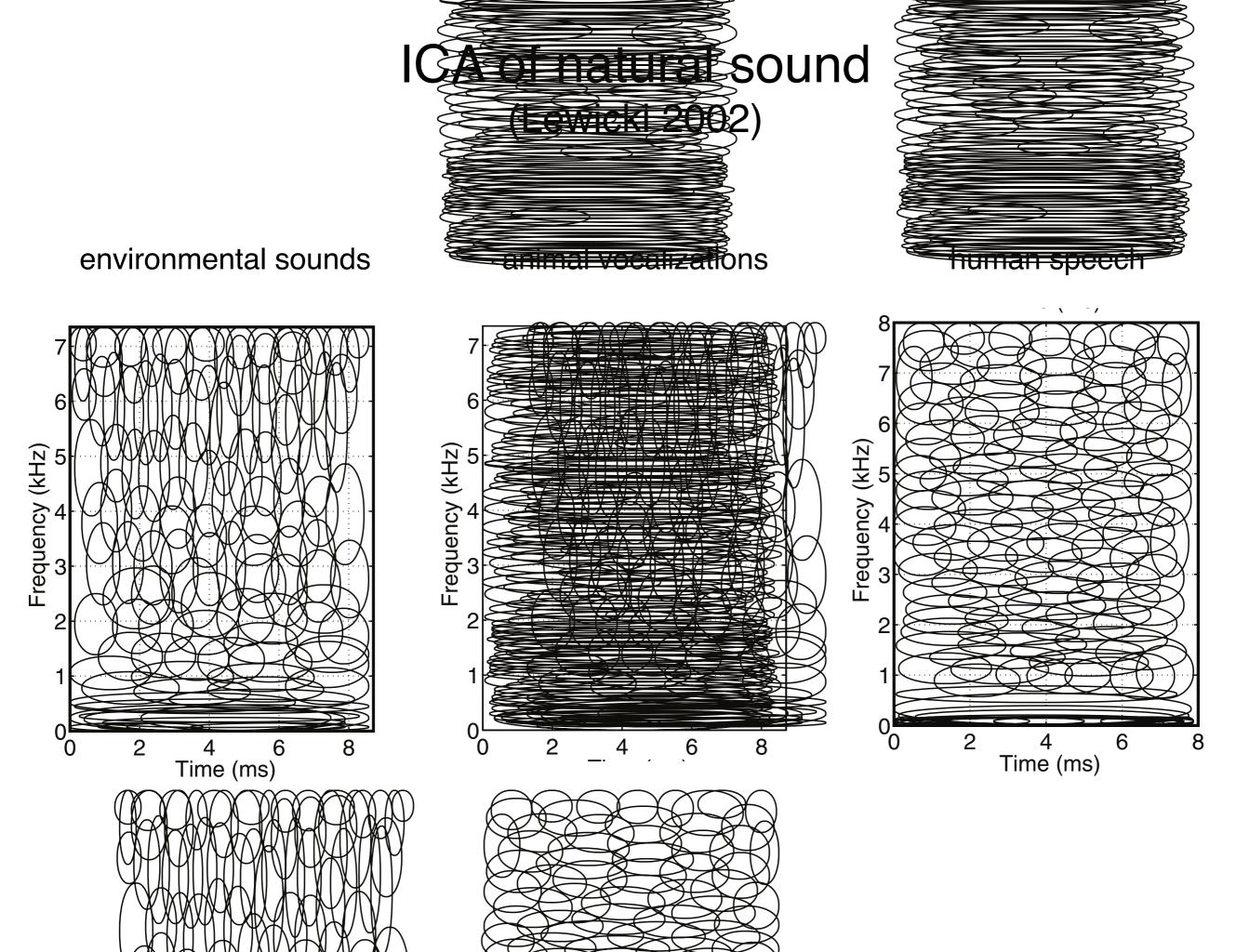
#### environmental sounds



#### animal vocalizations









### ICA of natural sound (Lewicki 2002)

