


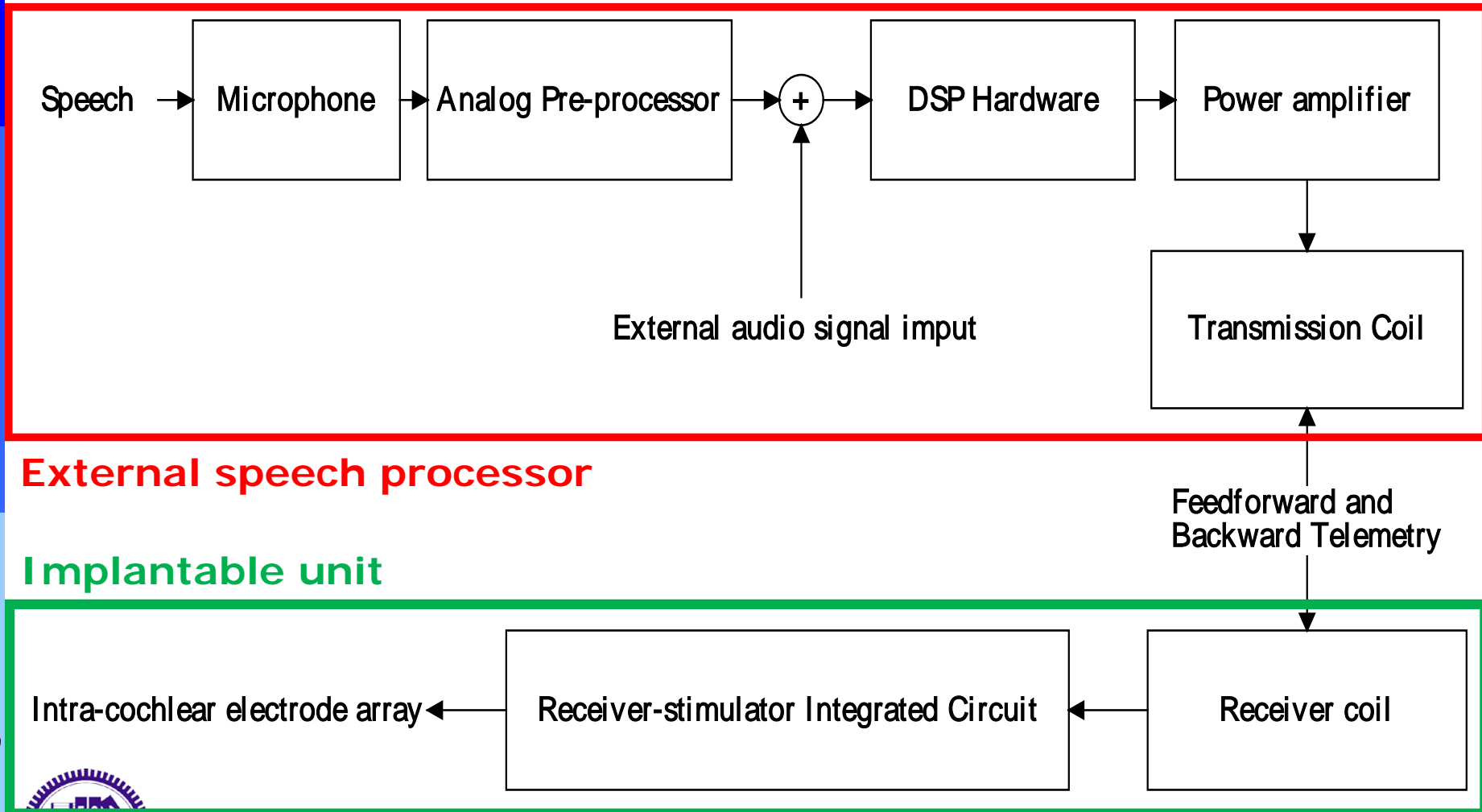
Overview of the Cochlear Implant and Brief Comparison among Hearing Aid Devices



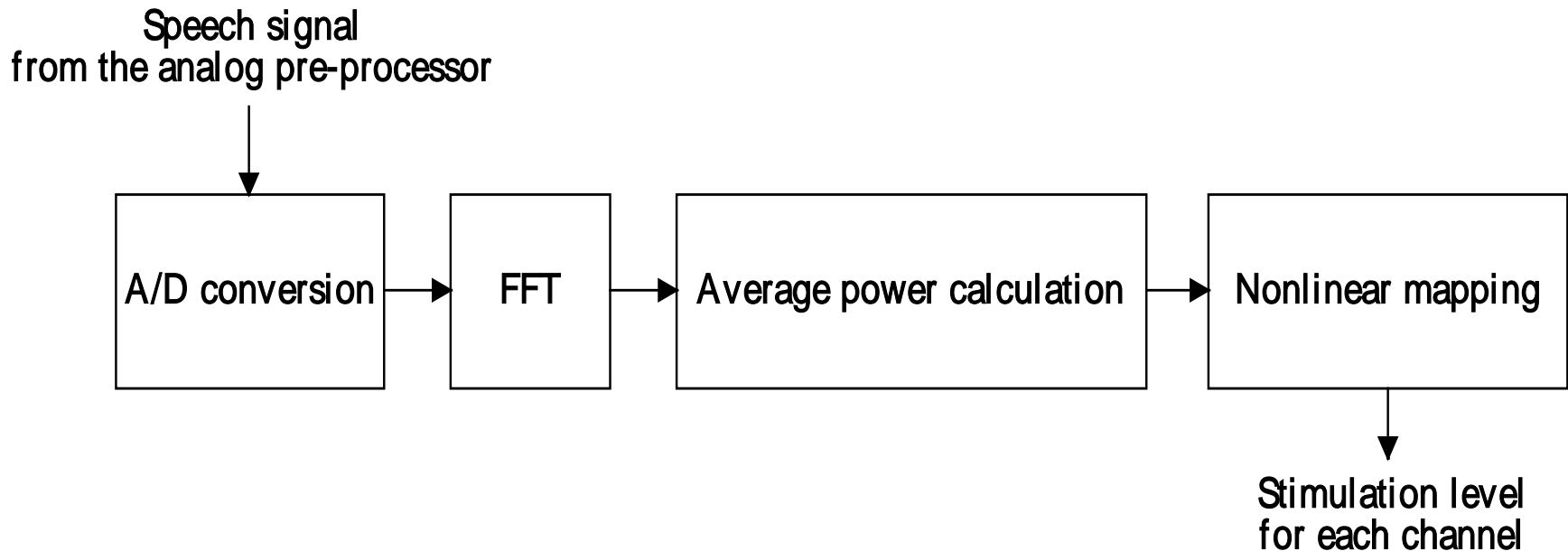
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Block Diagrams of the Cochlear Implant



Functions of the DSP Hardware

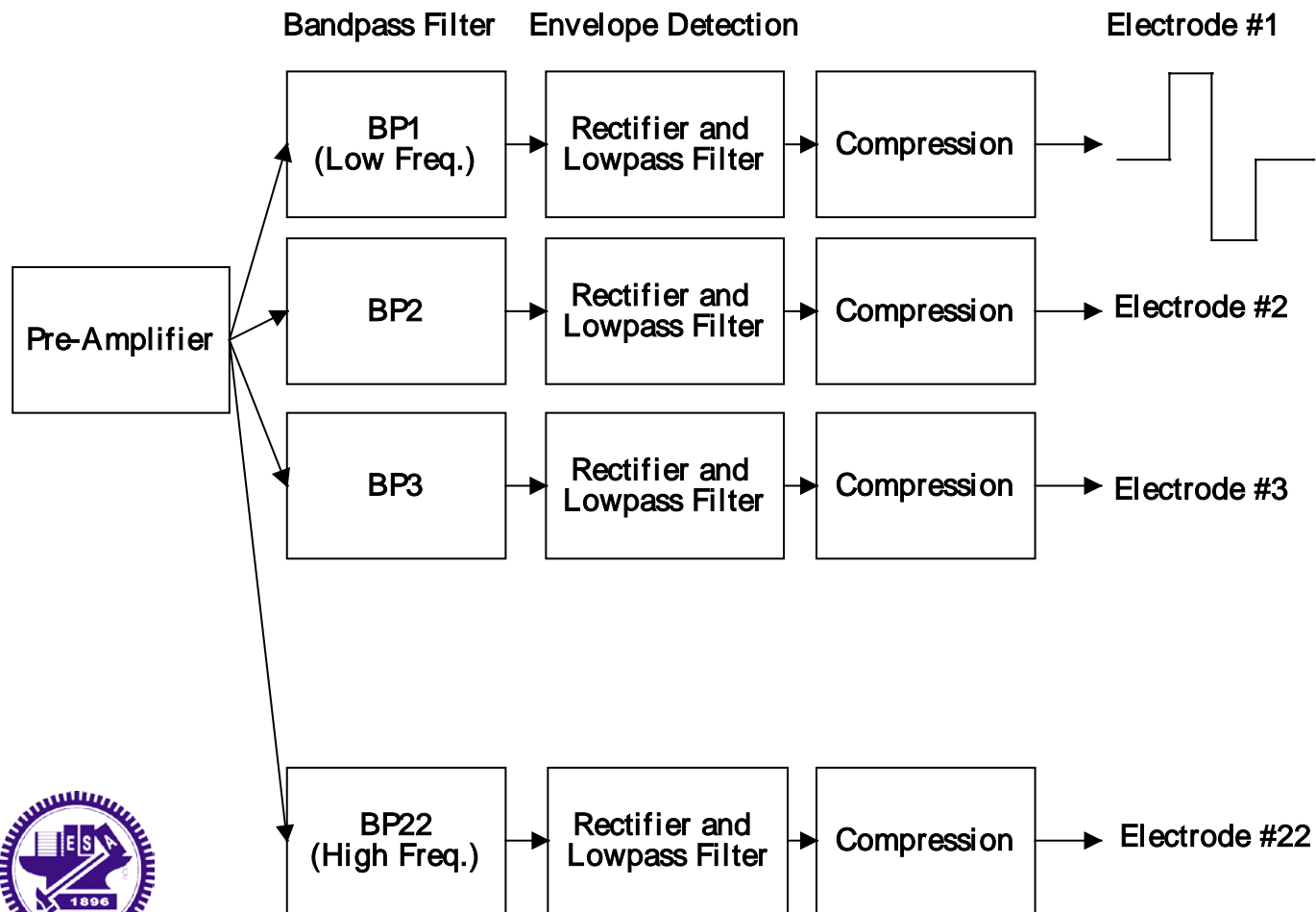


Other method is by digital IIR or FIR filter. But, FFT is more efficient, even though the total number of computations is substantially lower than the other two.



Concept of signal processing in Cochlear with digital filter method

Frequencies are decomposed into different band, which corresponded to different electrode position of cochlea respectively.



Comparison among different Hearing Devices

