

The Cochlear Hybrid System has both external and internal parts:

- The **sound processor** **A** with **coil** **B** and **acoustic component** **C** is worn behind the ear.
- The **cochlear implant** **D** is placed just under the skin, behind the ear.

- ① External sound processor captures sound and divides it into high frequencies and low frequencies.
- ②a Sound processor encodes the **high frequencies** into digital signals which are sent to the implant.
- ②b Sound processor amplifies the **low frequencies** which are sent to the acoustic component.
- ③ The hearing nerve response caused by electrical and acoustic stimulation is sent to the brain which combines them into a single perceived sound.

