

Table 1**Studies evaluating the functional properties of regenerated hair cells**

| Level of analysis | Dependent variable | Type of damage | Recovery period studied | References |
|--------------------|---------------------------------|---|---------------------------------------|---------------------------------|
| Inner ear | Ototacoustic emissions | Intense sound exposure Aminoglycosides | 1 wk - 8 wks 1 wk - 22 wks+ | [52-54] |
| | Endocochlear potential | Aminoglycosides Intense sound exposure | 1 day - 4 wks 0 day - 12 day | [55-57] |
| Eighth nerve | Vestibular hair cell physiology | Aminoglycosides | | [58,59] |
| | Compound evoked responses | Intense sound exposure Aminoglycosides | 0 days - 30 days 2 days - 20 weeks | [7,60-68] [9,10,69-72] |
| | Single unit responses | Intense sound exposure Aminoglycosides | 0 days - 4 mo 2 days - 20 wks | [66,73-77] [6,14,16,17**,21] |
| CNS | Single unit responses | Intense sound exposure | 0 days & 12 days | [11,12] |
| | Metabolic influences | Intense sound exposure Aminoglycosides | 2 days - 43 days | [78-81] |
| Behavioral studies | Basic psychoacoustics | Intense sound exposure Aminoglycosides | 1 day - 4 mo | [8,18**,23,24,26,82,83] |
| | Complex behaviors | Aminoglycosides | 5 days - 23 wks | [25**,84] |
| | Vestibular reflexes | Aminoglycosides | | [20,29,85] |