

Abstract EFAS/DGA 2007

Preservation and regeneration of the auditory system

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The auditory system is a structurally and physiologically highly specialized sense. At present hair cell and following spiral ganglion cell loss presents the anatomical basis for hearing loss either due to genetic, age or with causes. In order to preserve and/or regenerate the cellular and physiological components of the auditory system various strategies are been followed at present by various groups. In a presentation combining four main aspects of this work the potential use of stem cells for preservation and regeneration of the auditory system, the differential distribution of stem cells in the auditory and vestibular organ of the inner ear, the potential of growth factors for regeneration of the auditory system and the potential of growth factors for preservation of the auditory system will be presented and discussed by experts in field.

