

# Neurological Complications of Patients with Autoimmune Disorders

## Abstract

Autoimmune disease happens when the body's natural defense system can't tell the difference between your own cells and foreign cells, causing the body to mistakenly attack normal cells. There are more than 80 types of autoimmune diseases that affect a wide range of body parts. Despite this, more detailed network charts of gene expression are demanded, including an appreciation for the places of microRNAs (miRs), crucial controllers of transcriptional gene networks. To harness the true eventuality of stem cells for hair cell rejuvenation science, introductory wisdom and clinical drug must work together to expedite the transition from bench to bedside by expounding the full mechanisms of inner observance hair cell development, including a focus on the part of miRs, and conforming this knowledge safely and efficiently to stem cell technologies.

**Keywords:** iPSCs • miRNAs • stem cells • hair cells • rejuvenescence • EPI- NCSCs

## Introduction

Sensorineural hair loss (SNHL) afflicts over 278 million individualities worldwide and nearly half of all individualities over the age of 65. This multifactorial complaint results from gene mutations, ototoxic medicines, environmental cuts, or aging, and is frequently unrecoverable. Hearing loss imparts a substantial fiscal cost to society and bears an emotional and quality of life burden to the affected existent along with his/ her family. While forestallment of hair loss through protection of hair cells is ideal, it isn't always possible, leaving regenerative drug the sole partner post facto option for an endless and restorative treatment of hair loss [1-3]. Still, rejuvenescence of damaged sensitive epithelia in the mammalian inner observance is complicated as discerned adult inner observance neurosensory towel cannot re-up the cell cycle and be used to replace neighboring cells, as is spontaneously fulfilled in non-mammalian systems [4]. This absence of proliferative capacity necessitates the use of exogenous stem cells as a medium for hair cell restoration, unless possibilities are discovered to jumpstart adult neurosensory epithelia proliferation. In vitro attempts using stem cells have been initiated to reconstitute hair cells in the murine system and have been shown to be able of discerning into hair cell like cells. Still, despite great advances, it's apparent that we don't relatively understand the molecular base of hair cell development in vitro or in vivo nor have the capability to control the placement of stem cells and/ or hair cell precursors to damaged towel [5].

## Conclusion

With the dawn of gene remedy and technological thunderclaps in stem cell technology,

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**Received:** 01-Aug-2022, Manuscript No. srrm-22-19671; **Editor assigned:** 03-Aug-2022, PreQC No. srrm-22-19671 (PQ); **Reviewed:** 17-Aug-2022, QC No. srrm-22-19671; **Revised:** 24-Aug-2022, Manuscript No. srrm-22-19671 (R); **Published:** 31-Aug-2022, DOI: 10.37532/srrm.2022.5(3).65-66

regenerative drug appears to be the surge of the future, promising cures to a wide array of mortal conditions. While regenerative drug is still in its immaturity and times down from clinical adaption, it represents new relations between introductory scientists and clinicians [6]. Unknown in connection, rejuvenescence of any towel requires a solid foundational knowledge of the molecular base of experimental processes and stem cell regulation. Millions of cases suffer from hail loss performing from lost hair cells in the organ of Corti. Gene remedy and stem cells may offer a endless cure for tormented individualities, but the complexity of the observance compared to other systems, makes rejuvenescence of hair cells a daunting task. Yet, the once ten times have shown an inconceivable advancement in the molecular understanding of observance development. A uninterrupted enhancement in understanding of observance development composite with the continuous advancements of gene remedy and stem cell biology may eventually be fine- tuned music to the cognizance of numerous [7].

### Acknowledgement

None

### Conflict of Interest

No conflict of interest

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