

# International Conference and Expo on Audiology and Hearing Devices

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## *Mark Williams*

*The Tinnitus Clinic Ltd., UK*

### **The role of clinical genomic testing in diagnosis and discovery of pathogenic mutations**

The investigation of neural correlates within mammals has enabled the development of novel therapeutic approaches that strive to reduce or reverse pathological central changes in humans afflicted with bothersome auditory hallucinations. Therapeutic neuromodulation methods like Transcranial Magnetic Stimulation (TMS), Multimodal stimulation, Neurofeedback, Vagus nerve stimulation and Acoustic CR neuromodulation have all been reported to ameliorate tinnitus symptoms and, in some cases, normalize pathologically altered EEG/MEG spectral power. This talk will review the pathophysiology of subjective tinnitus along with the evidence base for evolving therapeutic interventions.

### **Biography**

Mark Williams is a Chief Audiologist at The Tinnitus Clinic Ltd. He is a senior clinician specializing in the provision of tinnitus and hyperacusis management options for adults. He has a specific interest in tinnitus psychoacoustic measurement along with researching the efficacy of neuromodulation therapies for the treatment of subjective percepts. He has both led and contributed to a number of clinic based observational studies. He currently leads a multidisciplinary clinical team for The Tinnitus Clinic Ltd. He has previously led a team of audiologists for the NHS and has been a clinical tutor/examiner for MSc and BSc Audiology students at University College London (UCL). He originally studied at UCL and obtained an honors degree in Molecular Biology, a Master's degree in Audiological Science and a Post-graduate Diploma in Audiology Clinical Competency. He is registered as a Hearing Aid Dispenser with the Health Professions Council (HPC) and as a Clinical Audiologist with the Registration Council for Clinical Physiologists (RCCP).

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