

Tinnitus at the Junction of Traditional Medicine and Modern Technology.

Authors: Mazurek, B.; Schulze, H.; Schlee, W.; Dobel, C.

Publisher: MDPI

In: Nutrients 2023, 15(8), 1898; published online: April 2023

Copyright: © 2023, by the authors. Licensed by MDPI, Basel, Switzerland.





Tinnitus at the Junction of Traditional Medicine and Modern Technology

Birgit Mazurek, Holger Schulze, Winfried Schlee and Christian Dobel

Special Issue

Epidemiological Factors and Gender

Edited by

Perf Dr. British Mazuvak, Perf Dr. Holnar Schulter Perf Dr. Christian Dobal and Dr. Wintried Schlat

Abstract:

Background: This Special Issue of Nutrients aims to focus on a collection of basic research and clinical studies detailing advancements in the field of hearing loss and tinnitus, with a focus on vulnerability factors. The goal is to enhance understanding of the trajectory of tinnitus-related maladaptation, including the identification of novel biomarkers and approaches that account for the complex phenotypes of comorbidity, such as nutrition, lifestyle, sex, and gender, in tinnitus and hearing loss.

Methods: Research suggests that tinnitus is a multidimensional phenomenon involving auditory processing, with individuals experiencing varying degrees of distress. Executive or attentional networks for control appear to be involved. Connections between frontal and limbic brain segments in tinnitus networks have been well studied and are associated with frequent affective comorbidity. Chronic comorbid diseases should be considered as states of a multifactorial and complex system, influenced by factors such as genetics, lifestyle, and environmental stressors.

Results: Addressing chronic comorbid diseases through system medicine involves understanding them as multifaceted system perturbations influenced by various factors. This paradigm shift allows for the development of early risk predictors and targeted interventions, potentially improving therapeutic outcomes and managing chronicity.

Conclusion: Future research should focus on developing technological approaches for a more profound and precise



understanding of the pathways involved in pathological development. Identification of these pathways will provide opportunities for predicting disease development and devising preventive and therapeutic strategies. Existing datasets can be reprocessed with modern statistical methods to explore specific risk factors and their impact on tinnitus and its comorbidities.

Related links:

- Online publication: https://www.mdpi.com/2072-6643/15/8/1898
- Download complete PDF: https://www.mdpi.com/2072-6643/15/8/1898

