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Scientific advances in headache research: an update on neurostimulation

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The pathophysiological understanding of migraine and other primary headaches has been substantially improved over the last 20 years. A milestone that paved the way for successful research was the development of the International Classification of Headache Disorders published by the International Headache Society in 1988. The classification facilitated a clear clinical diagnosis of headache disorders and allowed research efforts to be focused on clearly defined syndromes. Recent advances in the understanding of headache disorders have been driven by the availability of new research tools, such as advanced imaging techniques, genetic tools, pharmaceutical compounds and devices for electrical or magnetic stimulation. The latest scientific and clinical advances were presented at the recent European Headache and Migraine Trust International Congress (EHMTIC) in London (UK).

The European Headache and Migraine Trust International Congress (EHMTIC) was held from 20 to 23 September in London, UK. The scientific program of this biennial congress included several informative teaching courses on experimental techniques for migraine research as well as clinical management of migraine and other primary headaches. Tobias Kurth from Bordeaux University (Bordeaux, France) opened the congress with the MacDonald Critchley lecture on migraine genetics epidemiology. The scientific core of the congress were multiple poster sessions covering basic laboratory and experimental clinical science on novel aspects of the pathophysiology of headache disorders, clinical aspects of headache care and recent advances in the acuse and preventative treatment of migraine. Beside the poster sessions, lectures were given for the awarding of the Enrico Greppi Award and the Giuseppe Nappi Cluster Headache Award conferred to Sait Ashina (Beth Israel Medical Center, NY, USA) and Delphine Magis (University of Liège, Liège, Belgium) for their respective research contributions on depression and risk of transformation of episodic to chronic migraine, and central mechanisms of occipital nerve stimulation (ONS) in cluster headache. The Migraine Trust lecture was given by Karl

Messlinger (University of Erlangen-Nürnberg, Germany), who provided an extensive overview of the neurobiology of migraine. Finally, in the Jes Olesen EHF lecture Rigmor Jensen (Danish Headache Center, Copenhagen, Denmark) presented the recent advances and challenges in headache research.

Neurostimulation is of increasing interest for the treatment of primary headaches. Initial experiences with invasive methods, such as deep brain stimulation for drug-refractory cluster headache, have been effective but were hampered by severe side effects. Research efforts are now being focused on noninvasive or minimally invasive neurostimulation therapies that could be used in less disabled patients. A variety of neurostimulation devices and first data about their potential efficacy were presented at the conference and are reviewed here.

Noninvasive neurostimulation devices Transcranial magnetic stimulation

Transcranial magnetic stimulation (TMS) is an established method to modulate cortical excitability and has been used for several neurological purposes for many years. Holland et al. demonstrated in an in vivo model of migraine, that single-pulse TMS (sTMS) was able to inhibit

New Advances In Headache Research

Judd E. Hollander

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Table of Contents New Advances In Headache Research

- 1. Understanding the eBook New Advances In Headache Research
 - o The Rise of Digital Reading New Advances In Headache Research
 - Advantages of eBooks Over Traditional Books
- 2. Identifying New Advances In Headache Research
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an New Advances In Headache Research
 - User-Friendly Interface

- 4. Exploring eBook Recommendations from New Advances In Headache Research
 - Personalized Recommendations
 - New Advances In Headache Research User Reviews and Ratings
 - New Advances In Headache Research and Bestseller Lists
- 5. Accessing New Advances In Headache Research Free and Paid eBooks
 - New Advances In Headache Research Public Domain eBooks
 - New Advances In Headache Research eBook Subscription Services
 - New Advances In Headache Research Budget-Friendly Options
- 6. Navigating New Advances In Headache Research eBook Formats
 - o ePub, PDF, MOBI, and More
 - New Advances In Headache Research Compatibility with Devices
 - New Advances In Headache Research Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of New Advances In Headache Research
 - Highlighting and Note-Taking New Advances In Headache Research
 - Interactive Elements New Advances In Headache Research
- 8. Staying Engaged with New Advances In Headache Research
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers New Advances In Headache Research
- 9. Balancing eBooks and Physical Books New Advances In Headache Research
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection New Advances In Headache Research
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine New Advances In Headache Research
 - Setting Reading Goals New Advances In Headache Research
 - Carving Out Dedicated Reading Time

- 12. Sourcing Reliable Information of New Advances In Headache Research
 - Fact-Checking eBook Content of New Advances In Headache Research
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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