

Annual Report – 2022

Science and Research Committee

1. Current Committee Members

Hans-Christoph Diener (Co-Chair)
Shuu-Jiun Wang (Co-Chair)
Werner Becker
Rami Burstein
Andrew Charles
Jan Hoffmann
Tobias Kurth
Arne May
Frank Porreca
Patricia Pozo Rosich
Anan Srikiatkhachorn
Gisela M Terwindt
Arn van den Maagdenberg

2. One fellowship was awarded in 2022 – the fellowship will start in January 2023

- Sarah Louise Tangsgaard Christensen, Denmark: Migraine signalling events in the meninges. Institution: Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, USA – mentor: Dan Levy

3. The three 2021 fellows continue their research

- Erika Ivanna Araya, Argentina. Research title: Functional validation of microRNAs in migraine-related behaviour in rodent models of chronic migraine. Institution: Vall d'Hebron Institute of Research, Spain - mentor: Patricia Pozo Rosich
- Vimala Bharadwaj, India-USA. Research title: Translational studies toward understanding the involvement of hypothalamic kappa opioid receptors (KOR) in stress-induced migraine. Institution: Stanford University, USA - mentor: David Yeomans
- Cédric Gollion, France. Research title: REFORM (Registry for migraine-structural and functional magnetic resonance imaging before and after erenumab treatment. Institution: Danish Headache Center, Denmark - mentor: Faisal Amin

4. One of the 2020 fellows has completed her research, the other is continuing

- Christina Deligianni, Greece. Research title: Opening of ATP-sensitive potassium channels induce cluster headache attacks: a randomized clinical trial. Institution: Danish Headache Center – mentor: Messoud Ashina (research completed)

- Alejandro Labastida Ramirez, Mexico: Research title: Crosstalk between sex hormones and amylin signalling in the trigeminovascular system. Institution: King's College London, UK – mentor: Jan Hoffmann

5. Headache Science Awards

For the first time in 2021 IHS offered two Headache Science Awards to recognise promising early- and mid-career basic, clinical or translational scientists whose research has contributed to the headache field.

Early-career scientists are within 5 years of their first doctoral research degree and mid-career scientists within 15 years.

The winners gave a short presentation at the virtual International Headache Congress, September 2021.

- Early career award: Hakan Ashina, Denmark: Towards a better understanding of post-traumatic headache
- Mid career award: Hashmat Ghanizada, Denmark: (Neuro)peptides in migraine

The committee is currently evaluating the applications for the 2022 awards

6. IHS GRADE tables

IHS is reviewing the scientific evidence for acute and preventive treatments. The results will be compiled into GRADE tables, and will be published on the IHS website from where IHS Affiliate societies can use the information to create their own guidelines. The tables will be updated annually. The first tables will be for the monoclonal antibodies, and then work will begin on triptans, devices, and older therapies. The work is time-consuming – all databases need to be screened to identify all published papers and a formal process is required for each of the working group members to follow. It is hoped that the migraine prevention tables will be completed in the next 6 months. The acute treatments will be less time-consuming as the group can use a meta-analysis recently published in JAMA (JAMA 2021;325(23):2357–2369).

6. Future activities

- Finalisation and publication of GRADE table development
- Input into IHC 2023 scientific programme
- 2023 Fellowship application evaluations

Hans-Christoph Diener and Shuu-Jiun Wang
Committee Co-Chairs
August 2022