Science and Research Committee

2021 Annual Report

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. Two fellowships were awarded in 2020 – their fellowships will start in 2021 due to COVID-19

   - 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

3. Three fellowships were awarded in 2021

   - 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 2019 fellows completed her research, the other continues for a second year
- Inge Loonen, Netherlands. Research title: The link between migraine aura and cerebrovascular endothelial dysfunction. Institution: Harvard Medical School-Massachusetts General Hospital – mentor: Cenk Ayata
  Completed fellowship April 2021

  Continuing for 2nd year of fellowship

4. Fellowship presentations 2021

Three fellowship recipients will present their research at the IHC 2021 in September 2021

- Anisa Dehghani, Iran. Research title: Parenchymal neuroinflammation and pain behaviour upon optogenetically-induced cortical spreading depolarisation in mice. Institution: Leiden University Medical Center – mentor: Arn van den Maagdenberg

- Inge Loonen, Netherlands. Research title: The link between migraine aura and cerebrovascular endothelial dysfunction. Institution: Harvard Medical School-Massachusetts General Hospital – mentor: Cenk Ayata


5. IHS GRADE tables

IHS is reviewing the scientific evidence for acute and preventive treatments. The results will be compiled into GRADE tables with a grade for each drug, 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 the migraine prevention tables will be completed in 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

- Continuation of GRADE table development
- Input into IHC 2023 scientific programme
- 2022 Fellowship application evaluations

Hans-Christoph Diener and Shuu-Jiun Wang
Committee Co-Chairs
July 2021