

CURRICULUM VITAE

Professor Messoud Ashina, MD, PhD, DMSc



Date of birth: 29.12.1965
Place of birth: Baku, Azerbaijan
Citizenship: Danish (1996)

CURRENT POSITION

Professor of Neurology
Lundbeck Foundation Professor
Director of the Human Migraine Research Unit
Department of Neurology & Danish Headache Center, Rigshospitalet Glostrup
Faculty of Health and Medical Sciences, University of Copenhagen
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EDUCATION

1988 Azerbaijan State Medical Institute, MD
2000 University of Copenhagen, Ph.D.
2003 University of Copenhagen, DMSc

SUPERVISION:

- Promotor (faculty supervisor) of current 5 PhD research programs & mentor of 2 post doc (DMSc) programs
- Promotor (faculty supervisor) of 3 submitted PhD research programs
- Medical students (pregraduate research-year students): 14

Promotor (faculty supervisor) of *completed* 14 PhD & mentor of 2 post doc (DMSc) programs

RESEARCH METRICS (1997-2019):

Authored over 400 papers, abstracts, and book chapters.
In total 253 registered publications in PubMed (1997-2020):

Original articles	Reviews/ Systematic	Multicenter Randomized controlled trials	Editorial	Letters	Case reports
181	36/16	8	4	4	4

Last authors: 156 articles.
First authorships: 37 articles
Co-authorships: 60

Original publications include articles in Nature Reviews Neurology (n=3; Impact Factor 23.891); The Lancet (n = 3; Impact Factor: 59.102), Lancet Neurology (n = 8; Impact Factor: 28.755), Brain (n = 13; Impact Factor: 11.814), Neurology (n = 9; Impact Factor: 8.689), Annals of Neurology (n = 3; Impact Factor 9.496), JAMA Neurology (n = 2; Impact Factor: 12.321).

Over past 3 years in total 116 publications in PubMed (2017-2020):

Last authors: 64 articles
First authorships: 12 articles

Citation index overall: 10756; Citation index since 2015: 6715; H-index: 53; H-index last 5 years: 40.

CLINICAL TRIALS:

Principal investigator of 2 ongoing Phase 3 trials

EDITOR

Pathophysiology of Headaches. Messoud Ashina, Pierangelo Geppetti Editors. Springer volume (EHF Headache Series)
<http://www.springer.com/us/book/9783319156200>

PROFESSIONAL SOCIETIES

International Headache Society (President, 2019-)
European Headache Federation (General Secretary, 2017-2019)
Fellow of the European Academy of Neurology (FEAN)
Danish Headache Society (past President)
International Headache Society (past Trustee)
Danish Neurological Society (member)
International Association for the Study of Pain (member)

CURRENT JOURNAL AFFILIATIONS

Associate Editor of Cephalalgia
Associate Editor of Headache
Associate Editor of the Journal of Headache and Pain
Topic editor Current Opinion in Neurology (2007; 2012 & 2017): Headache section
Topic editor The Journal of Cerebral Blood Flow and Metabolism (2019): Neurovascular headaches
Topic editor The Journal of Headache and Pain (2018): Pituitary adenylate-cyclase-activating polypeptide (PACAP): another novel target for treatment of primary headaches?

Reviewer of N Engl J Med; Lancet Neurology; PNAS; Brain; Ann Neurology; Neurology; NeuroImage; Human Brain Mapping; Pain; PLOS One; Eur J Neurology; Headache; Annals of Clinical and Translational Neurology.

PERSONAL

Fluent in Danish, English, Russian and Azerbaijani

PUBLICATION LIST (PUBMED 1997-2020)

1. Iljazi A, Ashina H, Al-Khazali HM, **Ashina M**, Winther Schytz H, Ashina S. Post-traumatic stress disorder attributed to traumatic brain injury in children - a systematic review. *Brain Inj.* 2020 Jun 5:1-7. doi: 10.1080/02699052.2020.1764104. Epub ahead of print. PMID: 32501734.
2. Ashina H, Iljazi A, Al-Khazali HM, Eigenbrodt AK, Larsen EL, Andersen AM, Hansen KJ, Bräuner KB, Mørch-Jessen T, Chaudhry B, Antic S, Christensen CE, **Ashina M**, Amin FM, Schytz HW. Efficacy, tolerability, and safety of erenumab for the preventive treatment of persistent post-traumatic headache attributed to mild traumatic brain injury: an open-label study. *J Headache Pain.* 2020 Jun 3;21(1):62. doi: 10.1186/s10194-020-01136-z. PMID: 32493206; PMCID: PMC7271543.
3. Hvedstrup J, Amin FM, Hougaard A, Ashina H, Christensen CE, Larsson HBW, **Ashina M**, Schytz HW. Volume of the rectus capitis posterior minor muscle in migraine patients: a cross-sectional structural MRI study. *J Headache Pain.* 2020 May 27;21(1):57. doi: 10.1186/s10194-020-01129-y. PMID: 32460751; PMCID: PMC7254728.
4. Gvantseladze K, Do TP, Hansen JM, Shapiro RE, **Ashina M**. The Stereotypical Image of a Person With Migraine According to Mass Media. *Headache.* 2020 May 27. doi: 10.1111/head.13846. Epub ahead of print. PMID: 32459017.
5. Pellesi L, Do TP, Ashina H, **Ashina M**, Burstein R. Dual Therapy With Anti-CGRP Monoclonal Antibodies and Botulinum Toxin for Migraine Prevention: Is There a Rationale? *Headache.* 2020 Jun;60(6):1056-1065. doi: 10.1111/head.13843. Epub 2020 May 21. PMID: 32437038.
6. Younis S, Christensen CE, Vestergaard MB, Lindberg U, Tolnai D, Paulson OB, Larsson HB, Hougaard A, **Ashina M**. Glutamate levels and perfusion in pons during migraine attacks: A 3T MRI study using proton spectroscopy and arterial spin labeling. *J Cereb Blood Flow Metab.* 2020 May 19:271678X20906902. doi: 10.1177/0271678X20906902. Epub ahead of print. PMID: 32423331.
7. Iljazi A, Ashina H, Al-Khazali HM, Lipton RB, **Ashina M**, Schytz HW, Ashina S. Post-Traumatic Stress Disorder After Traumatic Brain Injury-A Systematic Review and Meta-Analysis. *Neurol Sci.* 2020 May 15. doi: 10.1007/s10072-020-04458-7. Epub ahead of print. PMID: 32415640.
8. Dodick DW, **Ashina M**, Sakai F, Grisold W, Miyake H, Henscheid-Lorenz D, Craven A, Ruiz de la Torre E, Koh R, Reznik N, Bance L, Leroux E, Edvinsson L; International Headache Society Global Patient Advocacy Coalition. Vancouver Declaration II on Global Headache Patient Advocacy 2019. *Cephalalgia.* 2020 Apr 28:333102420921162. doi: 10.1177/0333102420921162. Epub ahead of print. PMID: 32345038.
9. Guo S, Falkenberg K, Schytz HW, Caparso A, Jensen RH, **Ashina M**. Low frequency activation of the sphenopalatine ganglion does not induce migraine-like attacks in migraine patients. *Cephalalgia.* 2020 Apr 22:333102420921156. doi: 10.1177/0333102420921156. Epub ahead of print. PMID: 32321288.
10. Andersen AM, Ashina H, Iljazi A, Al-Khazali HM, Chaudhry B, **Ashina M**, Ashina S, Schytz HW. Risk Factors for the Development of Post-Traumatic Headache Attributed to Traumatic Brain Injury: A Systematic Review. *Headache.* 2020 Jun;60(6):1066-1075. doi: 10.1111/head.13812. Epub 2020 Apr 22. PMID: 32320055.
11. Hvedstrup J, Kolding LT, **Ashina M**, Schytz HW. Increased neck muscle stiffness in migraine patients with ictal neck pain: A shear wave elastography study. *Cephalalgia.* 2020 May;40(6):565-574. doi: 10.1177/0333102420919998. Epub 2020 Apr 15. PMID: 32295400.
12. Tepper SJ, **Ashina M**, Reuter U, Brandes JL, Doležil D, Silberstein SD, Winner P, Zhang F, Cheng S, Mikol DD. Long-term safety and efficacy of erenumab in patients with chronic migraine: Results from a 52-week, open-label extension study. *Cephalalgia.* 2020 May;40(6):543-553. doi: 10.1177/0333102420912726. Epub 2020 Mar 26. PMID: 32216456.
13. Ashina H, Iljazi A, Al-Khazali HM, Ashina S, Jensen RH, Amin FM, **Ashina M**, Schytz HW. Persistent post-traumatic headache attributed to mild traumatic brain injury: Deep phenotyping and treatment patterns. *Cephalalgia.* 2020 May;40(6):554-564. doi: 10.1177/0333102420909865. Epub 2020 Feb 26. PMID: 32102546.
14. Ghanizada H, Al-Karagholi MA, Arngrim N, Mørch-Rasmussen M, Metcalf-Clausen M, Larsson HBW, Amin FM, **Ashina M**. Investigation of sumatriptan and ketorolac trometamol in the human experimental model of headache. *J Headache Pain.* 2020 Feb 24;21(1):19. doi: 10.1186/s10194-020-01089-3. PMID: 32093617; PMCID: PMC7038568.
15. **Ashina M**, Saper J, Cady R, Schaeffler BA, Biondi DM, Hirman J, Pederson S, Allan B, Smith J. Eptinezumab in episodic migraine: A randomized, double-blind, placebo-controlled study (PROMISE-1). *Cephalalgia.* 2020 Mar;40(3):241-254. doi: 10.1177/0333102420905132. Epub 2020 Feb 19. PMID: 32075406; PMCID: PMC7066477.
16. Al-Karagholi MA, Gram C, Nielsen CAW, **Ashina M**. Targeting BK_{Ca} Channels in Migraine: Rationale and Perspectives. *CNS Drugs.* 2020 Apr;34(4):325-335. doi: 10.1007/s40263-020-00706-8. PMID: 32060729.

17. Zhang DG, Amin FM, Guo S, Vestergaard MB, Hougaard A, **Ashina M**. Plasma Glucose Levels Increase During Spontaneous Attacks of Migraine With and Without Aura. *Headache*. 2020 Apr;60(4):655-664. doi: 10.1111/head.13760. Epub 2020 Feb 7. PMID: 32031249.
18. Al-Karagholi MA, Olesen J, **Ashina M**. Reply: Hyperpolarization through ATP-sensitive potassium channels; relevance to migraine pathology. *Brain*. 2020 Feb 1;143(2):e14. doi: 10.1093/brain/awaa004. PMID: 31995158.
19. Hougaard A, Younis S, Iljazi A, Sugimoto K, Ayata C, **Ashina M**. Intravenous Endothelin-1 Infusion Does Not Induce Aura or Headache in Migraine Patients With Aura. *Headache*. 2020 Apr;60(4):724-734. doi: 10.1111/head.13753. Epub 2020 Jan 29. PMID: 31994720.
20. Al-Khazali HM, Ashina H, Iljazi A, Lipton RB, **Ashina M**, Ashina S, Schytz HW. Neck pain and headache after whiplash injury: a systematic review and meta-analysis. *Pain*. 2020 May;161(5):880-888. doi: 10.1097/j.pain.0000000000001805. PMID: 31977938.
21. Hvedstrup J, Kolding LT, Younis S, **Ashina M**, Schytz HW. Ictal neck pain investigated in the interictal state - a search for the origin of pain. *Cephalalgia*. 2020 May;40(6):614-624. doi: 10.1177/0333102419896369. Epub 2019 Dec 18. PMID: 31852232.
22. **Ashina M**, Kudrow D, Reuter U, Dolezil D, Silberstein S, Tepper SJ, Xue F, Picard H, Zhang F, Wang A, Zhou Y, Hong F, Klatt J, Mikol DD. Long-term tolerability and nonvascular safety of erenumab, a novel calcitonin gene-related peptide receptor antagonist for prevention of migraine: A pooled analysis of four placebo-controlled trials with long-term extensions. *Cephalalgia*. 2019 Dec;39(14):1798-1808. doi: 10.1177/0333102419888222. Epub 2019 Nov 10. PMID: 31707815.
23. Al-Karagholi MA, Ghanizada H, Hansen JM, Aghazadeh S, Skovgaard LT, Olesen J, **Ashina M**. Extracranial activation of ATP-sensitive potassium channels induces vasodilation without nociceptive effects. *Cephalalgia*. 2019 Dec;39(14):1789-1797. doi: 10.1177/0333102419888490. Epub 2019 Nov 7. PMID: 31696739.
24. Younis S, Christensen CE, Toft NM, Søbørg T, Amin FM, Hougaard A, **Ashina M**. Investigation of distinct molecular pathways in migraine induction using calcitonin gene-related peptide and sildenafil. *Cephalalgia*. 2019 Dec;39(14):1776-1788. doi: 10.1177/0333102419882474. Epub 2019 Nov 4. PMID: 31684759.
25. Larsen EL, Ashina H, Iljazi A, Al-Khazali HM, Seem K, **Ashina M**, Ashina S, Schytz HW. Acute and preventive pharmacological treatment of post-traumatic headache: a systematic review. *J Headache Pain*. 2019 Oct 21;20(1):98. doi: 10.1186/s10194-019-1051-7. PMID: 31638888; PMCID: PMC6802300.
26. **Ashina M**. Board Walk - October 2019. *Cephalalgia*. 2019 Oct;39(11):1470-1471. doi: 10.1177/0333102419878909. PMID: 31578126.
27. Al-Karagholi MA, Ghanizada H, Hansen JM, Skovgaard LT, Olesen J, Larsson HBW, Amin FM, **Ashina M**. Levocromakalim, an Adenosine Triphosphate-Sensitive Potassium Channel Opener, Dilates Extracerebral but not Cerebral Arteries. *Headache*. 2019 Oct;59(9):1468-1480. doi: 10.1111/head.13634. Epub 2019 Sep 18. PMID: 31535367.
28. **Ashina M**, Vasudeva R, Jin L, Lombard L, Gray E, Doty EG, Yunes-Medina L, Kinchen KS, Tassorelli C. Onset of Efficacy Following Oral Treatment With Lasmiditan for the Acute Treatment of Migraine: Integrated Results From 2 Randomized Double-Blind Placebo-Controlled Phase 3 Clinical Studies. *Headache*. 2019 Nov;59(10):1788-1801. doi: 10.1111/head.13636. Epub 2019 Sep 17. PMID: 31529622; PMCID: PMC6899640.
29. Ashina H, Porreca F, Anderson T, Amin FM, **Ashina M**, Schytz HW, Dodick DW. Post-traumatic headache: epidemiology and pathophysiological insights. *Nat Rev Neurol*. 2019 Oct;15(10):607-617. doi: 10.1038/s41582-019-0243-8. Epub 2019 Sep 16. PMID: 31527806.
30. Diener HC, Goadsby PJ, **Ashina M**, Al-Karagholi MA, Sinclair A, Mitsikostas D, Magis D, Pozo-Rosich P, Irimia Sieira P, Làinez MJ, Gaul C, Silver N, Hoffmann J, Marin J, Liebler E, Ferrari MD. Non-invasive vagus nerve stimulation (nVNS) for the preventive treatment of episodic migraine: The multicentre, double-blind, randomised, sham-controlled PREMIUM trial. *Cephalalgia*. 2019 Oct;39(12):1475-1487. doi: 10.1177/0333102419876920. Epub 2019 Sep 15. PMID: 31522546; PMCID: PMC6791025.
31. Hougaard A, Younis S, Iljazi A, Haanes KA, Lindberg U, Vestergaard MB, Amin FM, Sugimoto K, Kruse LS, Ayata C, **Ashina M**. Cerebrovascular effects of endothelin-1 investigated using high-resolution magnetic resonance imaging in healthy volunteers. *J Cereb Blood Flow Metab*. 2019 Sep 9;271678X19874295. doi: 10.1177/0271678X19874295. Epub ahead of print. PMID: 31500524.
32. Olesen J, **Ashina M**. Calcitonin gene-related peptide - beyond migraine prophylaxis. *Nat Rev Neurol*. 2019 Oct;15(10):562-564. doi: 10.1038/s41582-019-0258-1. PMID: 31488896.
33. Ghanizada H, Al-Karagholi MA, Arngrim N, Ghanizada M, Larsson HBW, Amin FM, **Ashina M**. Effect of pituitary adenylate cyclase-activating polypeptide-27 on cerebral hemodynamics in healthy volunteers: A 3T MRI study. *Peptides*. 2019 Nov;121:170134. doi: 10.1016/j.peptides.2019.170134. Epub 2019 Aug 23. PMID: 31449829.
34. Ferrari MD, Diener HC, Ning X, Galic M, Cohen JM, Yang R, Mueller M, Ahn AH, Schwartz YC, Grozinski-Wolff M, Janka L, **Ashina M**. Fremanezumab versus placebo for migraine prevention in patients with documented failure to up to four migraine preventive medication classes (FOCUS): a randomised, double-blind, placebo-controlled, phase 3b trial. *Lancet*. 2019 Sep 21;394(10203):1030-1040. doi: 10.1016/S0140-6736(19)31946-4. Epub 2019 Aug 16. Erratum in: *Lancet*. 2019 Oct 29;: PMID: 31427046.

35. Ghanizada H, Al-Karagholi MA, Arngrim N, Olesen J, **Ashina M**. PACAP27 induces migraine-like attacks in migraine patients. *Cephalalgia*. 2020 Jan;40(1):57-67. doi: 10.1177/0333102419864507. Epub 2019 Jul 12. PMID: 31299857.
36. Al-Karagholi MA, Hansen JM, Guo S, Olesen J, **Ashina M**. Opening of ATP-sensitive potassium channels causes migraine attacks: a new target for the treatment of migraine. *Brain*. 2019 Sep 1;142(9):2644-2654. doi: 10.1093/brain/awz199. PMID: 31292608.
37. **Ashina M**, Hansen JM, Do TP, Melo-Carrillo A, Burstein R, Moskowitz MA. Migraine and the trigeminovascular system-40 years and counting. *Lancet Neurol*. 2019 Aug;18(8):795-804. doi: 10.1016/S1474-4422(19)30185-1. Epub 2019 May 31. PMID: 31160203; PMCID: PMC7164539.
38. **Ashina M**, Goadsby PJ, Reuter U, Silberstein S, Dodick D, Rippon GA, Klatt J, Xue F, Chia V, Zhang F, Cheng S, Mikol DD. Long-term safety and tolerability of erenumab: Three-plus year results from a five-year open-label extension study in episodic migraine. *Cephalalgia*. 2019 Oct;39(11):1455-1464. doi: 10.1177/0333102419854082. Epub 2019 May 30. PMID: 31146544; PMCID: PMC6779015.
39. Christensen CE, Younis S, Lindberg U, Boer VO, de Koning P, Petersen ET, Paulson OB, Larsson HBW, Amin FM, **Ashina M**. Correction to: Ultra-high field MR angiography in human migraine models: a 3.0 T/7.0 T comparison study. *J Headache Pain*. 2019 May 28;20(1):62. doi: 10.1186/s10194-019-1014-z. Erratum for: *J Headache Pain*. 2019 May 6;20(1):48. PMID: 31138101; PMCID: PMC6734446.
40. Deen M, Hougaard A, Hansen HD, Schain M, Dyssegaard A, Knudsen GM, **Ashina M**. Association Between Sumatriptan Treatment During a Migraine Attack and Central 5-HT_{1B} Receptor Binding. *JAMA Neurol*. 2019 Jul 1;76(7):834-840. doi: 10.1001/jamaneurol.2019.0755. PMID: 31135819; PMCID: PMC6547094.
41. Martelletti P, Edvinsson L, **Ashina M**. Shaping the future of migraine targeting Calcitonin-Gene-Related-Peptide with the Disease-Modifying Migraine Drugs (DMMDs). *J Headache Pain*. 2019 May 23;20(1):60. doi: 10.1186/s10194-019-1009-9. PMID: 31122205; PMCID: PMC6734307.
42. Sacco S, Bendtsen L, **Ashina M**, Reuter U, Terwindt G, Mitsikostas DD, Martelletti P. Correction to: European headache federation guideline on the use of monoclonal antibodies acting on the calcitonin gene related peptide or its receptor for migraine prevention. *J Headache Pain*. 2019 May 23;20(1):58. doi: 10.1186/s10194-019-0972-5. Erratum for: *J Headache Pain*. 2019 Jan 16;20(1):6. PMID: 31122188; PMCID: PMC6734242.
43. Khan S, Amin FM, Fliedner FP, Christensen CE, Tolnai D, Younis S, Olinger ACR, Birgens H, Daldrup-Link H, Kjær A, Larsson HBW, Lindberg U, **Ashina M**. Investigating macrophage-mediated inflammation in migraine using ultrasmall superparamagnetic iron oxide-enhanced 3T magnetic resonance imaging. *Cephalalgia*. 2019 Oct;39(11):1407-1420. doi: 10.1177/0333102419848122. Epub 2019 May 19. PMID: 31104505.
44. Do TP, Guo S, **Ashina M**. Correction to: Therapeutic novelties in migraine: new drugs, new hope? *J Headache Pain*. 2019 May 17;20(1):55. doi: 10.1186/s10194-019-1013-0. Erratum for: *J Headache Pain*. 2019 Apr 17;20(1):37. PMID: 31100999; PMCID: PMC6734468.
45. Martelletti P, **Ashina M**, Edvinsson L. The changing faces of migraine. *J Headache Pain*. 2019 May 10;20(1):52. doi: 10.1186/s10194-019-1006-z. PMID: 31077138; PMCID: PMC6734366.
46. Christensen CE, Younis S, Lindberg U, Boer VO, de Koning P, Petersen ET, Paulson OB, Larsson HBW, Amin FM, **Ashina M**. Ultra-high field MR angiography in human migraine models: a 3.0 T/7.0 T comparison study. *J Headache Pain*. 2019 May 6;20(1):48. doi: 10.1186/s10194-019-0996-x. Erratum in: *J Headache Pain*. 2019 May 28;20(1):62. PMID: 31060491; PMCID: PMC6734314.
47. Deen M, Martinelli D, Pijpers J, Diener HC, Silberstein S, Ferrari MD, **Ashina M**, Tassorelli C, Yuan H. Adherence to the 2008 IHS guidelines for controlled trials of drugs for the preventive treatment of chronic migraine in adults. *Cephalalgia*. 2019 Jul;39(8):1058-1066. doi: 10.1177/0333102419847751. Epub 2019 May 1. PMID: 31042062.
48. Tepper SJ, Diener HC, **Ashina M**, Brandes JL, Friedman DI, Reuter U, Cheng S, Nilsen J, Leonardi DK, Lenz RA, Mikol DD. Erenumab in chronic migraine with medication overuse: Subgroup analysis of a randomized trial. *Neurology*. 2019 May 14;92(20):e2309-e2320. doi: 10.1212/WNL.0000000000007497. Epub 2019 Apr 17. PMID: 30996056; PMCID: PMC6598821.
49. Do TP, Guo S, **Ashina M**. Therapeutic novelties in migraine: new drugs, new hope? *J Headache Pain*. 2019 Apr 17;20(1):37. doi: 10.1186/s10194-019-0974-3. Erratum in: *J Headache Pain*. 2019 May 17;20(1):55. PMID: 30995909; PMCID: PMC6734360.
50. **Ashina M**, Ayata C. Neurovascular origin of primary headaches. *J Cereb Blood Flow Metab*. 2019 Apr;39(4):571-572. doi: 10.1177/0271678X18775811. PMID: 30929598; PMCID: PMC6446421.
51. Snoer A, Vollesen ALH, Beske RP, Guo S, Hoffmann J, Fahrenkrug J, Jørgensen NR, Martinussen T, Jensen RH, **Ashina M**. Calcitonin-gene related peptide and disease activity in cluster headache. *Cephalalgia*. 2019 Apr;39(5):575-584. doi: 10.1177/0333102419837154. Epub 2019 Mar 9. PMID: 30854880.
52. Diener HC, Tassorelli C, Dodick DW, Silberstein SD, Lipton RB, **Ashina M**, Becker WJ, Ferrari MD, Goadsby PJ, Pozo-Rosich P, Wang SJ, Mandrekar J; International Headache Society Clinical Trials Standing Committee. Guidelines of the International Headache Society for controlled trials of acute treatment of migraine attacks in adults: Fourth edition. *Cephalalgia*. 2019 May;39(6):687-710. doi: 10.1177/0333102419828967. Epub 2019 Feb 26. PMID: 30806518; PMCID: PMC6501455.
53. Sacco S, Bendtsen L, **Ashina M**, Reuter U, Terwindt G, Mitsikostas DD, Martelletti P. European headache federation guideline on the use of monoclonal antibodies acting on the calcitonin gene related peptide or its

- receptor for migraine prevention. *J Headache Pain*. 2019 Jan 16;20(1):6. doi: 10.1186/s10194-018-0955-y. Erratum in: *J Headache Pain*. 2019 May 23;20(1):58. PMID: 30651064; PMCID: PMC6734227.
54. Khan S, Amin FM, Christensen CE, Ghanizada H, Younis S, Olinger ACR, de Koning PJH, Larsson HBW, **Ashina M**. Meningeal contribution to migraine pain: a magnetic resonance angiography study. *Brain*. 2019 Jan 1;142(1):93-102. doi: 10.1093/brain/awy300. PMID: 30590467.
 55. **Ashina M**. The most important advances in headache research in 2018. *Lancet Neurol*. 2019 Jan;18(1):5-6. doi: 10.1016/S1474-4422(18)30434-4. PMID: 30563683.
 56. Magon S, May A, Stankewitz A, Goadsby PJ, Schankin C, **Ashina M**, Amin FM, Seifert CL, Mallar Chakravarty M, Müller J, Sprenger T. Cortical abnormalities in episodic migraine: A multi-center 3T MRI study. *Cephalalgia*. 2019 Apr;39(5):665-673. doi: 10.1177/0333102418795163. Epub 2018 Dec 10. PMID: 30525946.
 57. Bartels ED, Guo S, Kousholt BS, Larsen JR, Hasenkam JM, Burnett J Jr, Nielsen LB, **Ashina M**, Goetze JP. High doses of ANP and BNP exacerbate lipolysis in humans and the lipolytic effect of BNP is associated with cardiac triglyceride content in pigs. *Peptides*. 2019 Feb;112:43-47. doi: 10.1016/j.peptides.2018.11.003. Epub 2018 Nov 30. PMID: 30508635.
 58. Christensen CE, Younis S, Deen M, Khan S, Ghanizada H, **Ashina M**. Migraine induction with calcitonin gene-related peptide in patients from erenumab trials. *J Headache Pain*. 2018 Nov 8;19(1):105. doi: 10.1186/s10194-018-0927-2. PMID: 30409109; PMCID: PMC6755614.
 59. Schwedt T, Reuter U, Tepper S, **Ashina M**, Kudrow D, Broessner G, Boudreau GP, McAllister P, Vu T, Zhang F, Cheng S, Picard H, Wen S, Kahn J, Klatt J, Mikol D. Early onset of efficacy with erenumab in patients with episodic and chronic migraine. *J Headache Pain*. 2018 Oct 1;19(1):92. doi: 10.1186/s10194-018-0923-6. PMID: 30276500; PMCID: PMC6755616.
 60. Bendtsen L, Sacco S, **Ashina M**, Mitsikostas D, Ahmed F, Pozo-Rosich P, Martelletti P. Guideline on the use of onabotulinumtoxinA in chronic migraine: a consensus statement from the European Headache Federation. *J Headache Pain*. 2018 Sep 26;19(1):91. doi: 10.1186/s10194-018-0921-8. PMID: 30259200; PMCID: PMC6755553.
 61. Vollesen AL, Benemei S, Cortese F, Labastida-Ramírez A, Marchese F, Pellesi L, Romoli M, **Ashina M**, Lampl C; School of Advanced Studies of the European Headache Federation (EHF-SAS). Migraine and cluster headache - the common link. *J Headache Pain*. 2018 Sep 21;19(1):89. doi: 10.1186/s10194-018-0909-4. PMID: 30242519; PMCID: PMC6755613.
 62. Vollesen LH, Guo S, Andersen MR, **Ashina M**. Effect of the H₁-antihistamine clemastine on PACAP38 induced migraine. *Cephalalgia*. 2019 Apr;39(5):597-607. doi: 10.1177/0333102418798611. Epub 2018 Aug 30. PMID: 30165750.
 63. Deen M, Hougaard A, Hansen HD, Svarer C, Eiberg H, Lehel S, Knudsen GM, **Ashina M**. Migraine is associated with high brain 5-HT levels as indexed by 5-HT₄ receptor binding. *Cephalalgia*. 2019 Apr;39(4):526-532. doi: 10.1177/0333102418793642. Epub 2018 Aug 8. PMID: 30089402.
 64. Younis S, Hougaard A, Nosedá R, **Ashina M**. Current understanding of thalamic structure and function in migraine. *Cephalalgia*. 2019 Nov;39(13):1675-1682. doi: 10.1177/0333102418791595. Epub 2018 Aug 4. PMID: 30079744.
 65. Vollesen ALH, Snoer A, Beske RP, Guo S, Hoffmann J, Jensen RH, **Ashina M**. Effect of Infusion of Calcitonin Gene-Related Peptide on Cluster Headache Attacks: A Randomized Clinical Trial. *JAMA Neurol*. 2018 Oct 1;75(10):1187-1197. doi: 10.1001/jamaneurol.2018.1675. PMID: 29987329; PMCID: PMC6233850.
 66. **Ashina M**, Tepper S, Brandes JL, Reuter U, Boudreau G, Dolezil D, Cheng S, Zhang F, Lenz R, Klatt J, Mikol DD. Efficacy and safety of erenumab (AMG334) in chronic migraine patients with prior preventive treatment failure: A subgroup analysis of a randomized, double-blind, placebo-controlled study. *Cephalalgia*. 2018 Sep;38(10):1611-1621. doi: 10.1177/0333102418788347. Epub 2018 Jul 8. PMID: 29984601.
 67. Christensen CE, Amin FM, Younis S, Lindberg U, de Koning P, Petersen ET, Paulson OB, Larsson HBW, **Ashina M**. Sildenafil and calcitonin gene-related peptide dilate intradural arteries: A 3T MR angiography study in healthy volunteers. *Cephalalgia*. 2019 Feb;39(2):264-273. doi: 10.1177/0333102418787336. Epub 2018 Jul 5. PMID: 29976087.
 68. Younis S, Hougaard A, Christensen CE, Vestergaard MB, Petersen ET, Paulson OB, Larsson HBW, **Ashina M**. Effects of sildenafil and calcitonin gene-related peptide on brainstem glutamate levels: a pharmacological proton magnetic resonance spectroscopy study at 3.0 T. *J Headache Pain*. 2018 Jun 18;19(1):44. doi: 10.1186/s10194-018-0870-2. PMID: 29916084; PMCID: PMC6005999.
 69. Hansen JM, Fahrenkrug J, Petersen J, Wienecke T, Olsen KS, **Ashina M**. Vasoactive intestinal peptide (VIP) and pituitary adenylate cyclase-activating polypeptide (PACAP) in the circulation after sumatriptan. *Scand J Pain*. 2013 Oct 1;4(4):211-216. doi: 10.1016/j.sjpain.2013.04.002. PMID: 29913626.
 70. Ashina H, Schytz HW, **Ashina M**. CGRP in Human Models of Migraine. *Handb Exp Pharmacol*. 2019;255:109-120. doi: 10.1007/164_2018_128. PMID: 29896653.
 71. Dodick D, Edvinsson L, Makino T, Grisold W, Sakai F, Jensen R, Balch A, Ruiz de la Torre E, Henscheid-Lorenz D, Craven A, **Ashina M**. Vancouver Declaration on Global Headache Patient Advocacy 2018. *Cephalalgia*. 2018 Nov;38(13):1899-1909. doi: 10.1177/0333102418781644. Epub 2018 Jun 8. PMID: 29882695.

72. **Ashina M**, Martelletti P. Pituitary adenylate-cyclase-activating polypeptide (PACAP): another novel target for treatment of primary headaches? *J Headache Pain*. 2018 May 8;19(1):33. doi: 10.1186/s10194-018-0860-4. PMID: 29740710; PMCID: PMC5940973.
73. Iljazi A, Ayata C, **Ashina M**, Hougaard A. The Role of Endothelin in the Pathophysiology of Migraine-a Systematic Review. *Curr Pain Headache Rep*. 2018 Mar 19;22(4):27. doi: 10.1007/s11916-018-0682-8. PMID: 29557064.
74. Ghanizada H, Arngrim N, Schytz HW, Olesen J, **Ashina M**. Carbon monoxide inhalation induces headache but no migraine in patients with migraine without aura. *Cephalalgia*. 2018 Nov;38(13):1940-1949. doi: 10.1177/0333102418765771. Epub 2018 Mar 14. PMID: 29540069.
75. Tassorelli C, Diener HC, Dodick DW, Silberstein SD, Lipton RB, **Ashina M**, Becker WJ, Ferrari MD, Goadsby PJ, Pozo-Rosich P, Wang SJ; International Headache Society Clinical Trials Standing Committee. Guidelines of the International Headache Society for controlled trials of preventive treatment of chronic migraine in adults. *Cephalalgia*. 2018 Apr;38(5):815-832. doi: 10.1177/0333102418758283. Epub 2018 Mar 4. PMID: 29504482.
76. Dodick DW, **Ashina M**, Brandes JL, Kudrow D, Lanteri-Minet M, Osipova V, Palmer K, Picard H, Mikol DD, Lenz RA. ARISE: A Phase 3 randomized trial of erenumab for episodic migraine. *Cephalalgia*. 2018 May;38(6):1026-1037. doi: 10.1177/0333102418759786. Epub 2018 Feb 22. PMID: 29471679.
77. Vollesen ALH, Amin FM, **Ashina M**. Targeted Pituitary Adenylate Cyclase-Activating Peptide Therapies for Migraine. *Neurotherapeutics*. 2018 Apr;15(2):371-376. doi: 10.1007/s13311-017-0596-x. PMID: 29464574; PMCID: PMC5935633.
78. Ashina H, Guo S, Vollesen ALH, **Ashina M**. PACAP38 in human models of primary headaches. *J Headache Pain*. 2017 Nov 23;18(1):110. doi: 10.1186/s10194-017-0821-3. PMID: 29453754; PMCID: PMC5815979.
79. Falkenberg K, Dunga BÓÁ, Guo S, **Ashina M**, Olesen J. Cilostazol induced migraine does not respond to sumatriptan in a double blind trial. *J Headache Pain*. 2018 Feb 2;19(1):11. doi: 10.1186/s10194-018-0841-7. PMID: 29396788; PMCID: PMC5796931.
80. Deen M, Hansen HD, Hougaard A, Nørgaard M, Eiberg H, Lehel S, **Ashina M**, Knudsen GM. High brain serotonin levels in migraine between attacks: A 5-HT₄ receptor binding PET study. *Neuroimage Clin*. 2018 Jan 28;18:97-102. doi: 10.1016/j.nicl.2018.01.016. PMID: 29387527; PMCID: PMC5790018.
81. Gaist D, Hougaard A, Garde E, Reislev NL, Wiwie R, Iversen P, Madsen CG, Blaabjerg M, Nielsen HH, Krøigård T, Østergaard K, Kyvik KO, Hjelmberg J, Madsen K, Siebner HR, **Ashina M**. Migraine with visual aura associated with thicker visual cortex. *Brain*. 2018 Mar 1;141(3):776-785. doi: 10.1093/brain/awx382. PMID: 29360944.
82. Arngrim N, Hougaard A, Ahmadi K, Vestergaard MB, Schytz HW, Amin FM, Larsson HBW, Olesen J, Hoffmann MB, **Ashina M**. Heterogenous migraine aura symptoms correlate with visual cortex functional magnetic resonance imaging responses. *Ann Neurol*. 2017 Dec;82(6):925-939. doi: 10.1002/ana.25096. Epub 2017 Dec 4. PMID: 29130510.
83. Khan S, Olesen A, **Ashina M**. CGRP, a target for preventive therapy in migraine and cluster headache: Systematic review of clinical data. *Cephalalgia*. 2019 Mar;39(3):374-389. doi: 10.1177/0333102417741297. Epub 2017 Nov 7. PMID: 29110503.
84. Barloese M, Petersen AS, Guo S, **Ashina M**, Mehlsen J, Jensen RH. Sphenopalatine ganglion stimulation induces changes in cardiac autonomic regulation in cluster headache. *Clin Physiol Funct Imaging*. 2018 Sep;38(5):808-815. doi: 10.1111/cpf.12484. Epub 2017 Nov 3. PMID: 29105279.
85. Guo S, Petersen AS, Schytz HW, Barløse M, Caparso A, Fahrenkrug J, Jensen RH, **Ashina M**. Cranial parasympathetic activation induces autonomic symptoms but no cluster headache attacks. *Cephalalgia*. 2018 Jul;38(8):1418-1428. doi: 10.1177/0333102417738250. Epub 2017 Oct 30. PMID: 29082824.
86. Benemei S, Cortese F, Labastida-Ramírez A, Marchese F, Pellesi L, Romoli M, Vollesen AL, Lampl C, **Ashina M**; School of Advanced Studies of the European Headache Federation (EHF-SAS). Triptans and CGRP blockade - impact on the cranial vasculature. *J Headache Pain*. 2017 Oct 10;18(1):103. doi: 10.1186/s10194-017-0811-5. PMID: 29019093; PMCID: PMC5635141.
87. **Ashina M**, Hansen JM, Á Dunga BO, Olesen J. Human models of migraine - short-term pain for long-term gain. *Nat Rev Neurol*. 2017 Dec;13(12):713-724. doi: 10.1038/nrneuro.2017.137. Epub 2017 Oct 6. PMID: 28984313.
88. Christensen CE, Andersen FS, Wienholtz N, Egeberg A, Thyssen JP, **Ashina M**. The relationship between migraine and rosacea: Systematic review and meta-analysis. *Cephalalgia*. 2018 Jun;38(7):1387-1398. doi: 10.1177/0333102417731777. Epub 2017 Sep 18. PMID: 28920449.
89. Amin FM, Hougaard A, Magon S, Sprenger T, Wolfram F, Rostrup E, **Ashina M**. Altered thalamic connectivity during spontaneous attacks of migraine without aura: A resting-state fMRI study. *Cephalalgia*. 2018 Jun;38(7):1237-1244. doi: 10.1177/0333102417729113. Epub 2017 Aug 30. PMID: 28853611.
90. **Ashina M**, Dodick D, Goadsby PJ, Reuter U, Silberstein S, Zhang F, Gage JR, Cheng S, Mikol DD, Lenz RA. Erenumab (AMG 334) in episodic migraine: Interim analysis of an ongoing open-label study. *Neurology*. 2017 Sep 19;89(12):1237-1243. doi: 10.1212/WNL.0000000000004391. Epub 2017 Aug 23. PMID: 28835404.
91. Al-Karagholi MA, Hansen JM, Severinsen J, Jansen-Olesen I, **Ashina M**. The K⁺ATP channel in migraine pathophysiology: a novel therapeutic target for migraine. *J Headache Pain*. 2017 Aug 23;18(1):90. doi: 10.1186/s10194-017-0800-8. PMID: 28831746; PMCID: PMC5567577.

92. Deen M, Hansen HD, Hougaard A, da Cunha-Bang S, Nørgaard M, Svarer C, Keller SH, Thomsen C, **Ashina M**, Knudsen GM. Low 5-HT_{1B} receptor binding in the migraine brain: A PET study. *Cephalalgia*. 2018 Mar;38(3):519-527. doi: 10.1177/0333102417698708. Epub 2017 Mar 15. PMID: 28730894.
93. Amin FM, Hougaard A, Cramer SP, Christensen CE, Wolfram F, Larsson HBW, **Ashina M**. Intact blood-brain barrier during spontaneous attacks of migraine without aura: a 3T DCE-MRI study. *Eur J Neurol*. 2017 Sep;24(9):1116-1124. doi: 10.1111/ene.13341. Epub 2017 Jul 20. PMID: 28727225.
94. Arngrim N, Hougaard A, Schytz HW, Vestergaard MB, Britze J, Amin FM, Olsen KS, Larsson HB, Olesen J, **Ashina M**. Effect of hypoxia on BOLD fMRI response and total cerebral blood flow in migraine with aura patients. *J Cereb Blood Flow Metab*. 2019 Apr;39(4):680-689. doi: 10.1177/0271678X17719430. Epub 2017 Jul 7. PMID: 28686073; PMCID: PMC6446416.
95. Khan S, Deen M, Hougaard A, Amin FM, **Ashina M**. Reproducibility of migraine-like attacks induced by phosphodiesterase-3-inhibitor cilostazol. *Cephalalgia*. 2018 Apr;38(5):892-903. doi: 10.1177/0333102417719753. Epub 2017 Jul 5. PMID: 28677994.
96. Vollesen ALH, **Ashina M**. PACAP38: Emerging Drug Target in Migraine and Cluster Headache. *Headache*. 2017 May;57 Suppl 2:56-63. doi: 10.1111/head.13076. PMID: 28485845.
97. Arngrim N, Schytz HW, Britze J, Vestergaard MB, Sander M, Olsen KS, Olesen J, **Ashina M**. Carbon monoxide inhalation induces headache in a human headache model. *Cephalalgia*. 2018 Apr;38(4):697-706. doi: 10.1177/0333102417708768. Epub 2017 May 5. PMID: 28474984.
98. Shayestagul NA, Christensen CE, Amin FM, Ashina S, **Ashina M**. Measurement of Blood Flow Velocity in the Middle Cerebral Artery During Spontaneous Migraine Attacks: A Systematic Review. *Headache*. 2017 Jun;57(6):852-861. doi: 10.1111/head.13106. Epub 2017 May 3. PMID: 28470726.
99. Tepper S, **Ashina M**, Reuter U, Brandes JL, Doležil D, Silberstein S, Winner P, Leonardi D, Mikol D, Lenz R. Safety and efficacy of erenumab for preventive treatment of chronic migraine: a randomised, double-blind, placebo-controlled phase 2 trial. *Lancet Neurol*. 2017 Jun;16(6):425-434. doi: 10.1016/S1474-4422(17)30083-2. Epub 2017 Apr 28. PMID: 28460892.
100. Hougaard A, Amin FM, Christensen CE, Younis S, Wolfram F, Cramer SP, Larsson HBW, **Ashina M**. Increased brainstem perfusion, but no blood-brain barrier disruption, during attacks of migraine with aura. *Brain*. 2017 Jun 1;140(6):1633-1642. doi: 10.1093/brain/awx089. PMID: 28430860.
101. Schou WS, Ashina S, Amin FM, Goadsby PJ, **Ashina M**. Calcitonin gene-related peptide and pain: a systematic review. *J Headache Pain*. 2017 Dec;18(1):34. doi: 10.1186/s10194-017-0741-2. Epub 2017 Mar 16. PMID: 28303458; PMCID: PMC5355411.
102. Younis S, Hougaard A, Vestergaard MB, Larsson HBW, **Ashina M**. Migraine and magnetic resonance spectroscopy: a systematic review. *Curr Opin Neurol*. 2017 Jun;30(3):246-262. doi: 10.1097/WCO.0000000000000436. PMID: 28240609.
103. Hougaard A, Amin FM, Larsson HB, Rostrup E, **Ashina M**. Increased intrinsic brain connectivity between pons and somatosensory cortex during attacks of migraine with aura. *Hum Brain Mapp*. 2017 May;38(5):2635-2642. doi: 10.1002/hbm.23548. Epub 2017 Feb 27. PMID: 28240389; PMCID: PMC6867076.
104. Khan S, Amin FM, Holtmannspötter M, Hansen K, Florescu AM, Fakhri-Din Z, Petersen JF, Ghanizada H, Ayata C, Gaist D, **Ashina M**. Endovascular thrombectomy and post-procedural headache. *J Headache Pain*. 2017 Dec;18(1):10. doi: 10.1186/s10194-017-0719-0. Epub 2017 Jan 28. PMID: 28130625; PMCID: PMC5272848.
105. Hansen JM, **Ashina M**. [Basic mechanisms of migraine and new methods of treatment]. *Ugeskr Laeger*. 2016 Dec 19;178(51):V07160507. Danish. PMID: 28041540.
106. Ashina H, Schytz HW, **Ashina M**. CGRP in human models of primary headaches. *Cephalalgia*. 2018 Feb;38(2):353-360. doi: 10.1177/0333102416684344. Epub 2016 Dec 9. PMID: 27940880.
107. Guo S, Vollesen AL, Olesen J, **Ashina M**. Premonitory and nonheadache symptoms induced by CGRP and PACAP38 in patients with migraine. *Pain*. 2016 Dec;157(12):2773-2781. doi: 10.1097/j.pain.0000000000000702. PMID: 27842045.
108. Egeberg A, **Ashina M**, Gaist D, Gislason GH, Thyssen JP. Prevalence and risk of migraine in patients with rosacea: A population-based cohort study. *J Am Acad Dermatol*. 2017 Mar;76(3):454-458. doi: 10.1016/j.jaad.2016.08.055. Epub 2016 Nov 3. PMID: 27817869.
109. Khan S, Amin FM, Hauerberg J, Holtmannspötter M, Petersen JF, Fakhri-Din Z, Gaist D, **Ashina M**. Post procedure headache in patients treated for neurovascular arteriovenous malformations and aneurysms using endovascular therapy. *J Headache Pain*. 2016 Dec;17(1):73. doi: 10.1186/s10194-016-0666-1. Epub 2016 Aug 22. PMID: 27550214; PMCID: PMC4993738.
110. Jensen RH, Bendtsen L, **Ashina M**. Lifelong contribution to headache science: A tribute to Professor Jes Olesen. *Cephalalgia*. 2017 Dec;37(2_suppl):7. doi: 10.1177/0333102416662582. Epub 2016 Jul 27. PMID: 27466018.
111. Hougaard A, Amin FM, Arngrim N, Vlachou M, Larsen VA, Larsson HBW, **Ashina M**. Sensory migraine aura is not associated with structural grey matter abnormalities. *Neuroimage Clin*. 2016 Feb 17;11:322-327. doi: 10.1016/j.nicl.2016.02.007. PMID: 27298761; PMCID: PMC4893014.
112. Gaist D, Garde E, Blaabjerg M, Nielsen HH, Krøigård T, Østergaard K, Møller HS, Hjelmberg J, Madsen CG, Iversen P, Kyvik KO, Siebner HR, **Ashina M**. Migraine with aura and risk of silent brain infarcts and white

- matter hyperintensities: an MRI study. *Brain*. 2016 Jul;139(Pt 7):2015-23. doi: 10.1093/brain/aww099. Epub 2016 May 2. PMID: 27190013; PMCID: PMC4939694.
113. Britze J, Arnglim N, Schytz HW, **Ashina M**. Hypoxic mechanisms in primary headaches. *Cephalalgia*. 2017 Apr;37(4):372-384. doi: 10.1177/0333102416647037. Epub 2016 May 4. PMID: 27146279.
 114. Vollesen AL, Guo S, **Ashina M**. PACAP38 dose-response pilot study in migraine patients. *Cephalalgia*. 2017 Apr;37(4):391-395. doi: 10.1177/0333102416644435. Epub 2016 Apr 15. PMID: 27084887.
 115. Deen M, Christensen CE, Hougaard A, Hansen HD, Knudsen GM, **Ashina M**. Serotonergic mechanisms in the migraine brain - a systematic review. *Cephalalgia*. 2017 Mar;37(3):251-264. doi: 10.1177/0333102416640501. Epub 2016 Jul 11. PMID: 27013238.
 116. Guo S, Christensen AF, Liu ML, Janjoo BN, Olesen J, **Ashina M**. Calcitonin gene-related peptide induced migraine attacks in patients with and without familial aggregation of migraine. *Cephalalgia*. 2017 Feb;37(2):114-124. doi: 10.1177/0333102416639512. Epub 2016 Jul 11. PMID: 26994300.
 117. Guo S, Vollesen AL, Hansen RD, Esserlind AL, Amin FM, Christensen AF, Olesen J, **Ashina M**. Part I: Pituitary adenylate cyclase-activating polypeptide-38 induced migraine-like attacks in patients with and without familial aggregation of migraine. *Cephalalgia*. 2017 Feb;37(2):125-135. doi: 10.1177/0333102416639516. Epub 2016 Jul 11. PMID: 26994299.
 118. Guo S, Vollesen AL, Hansen YB, Frandsen E, Andersen MR, Amin FM, Fahrenkrug J, Olesen J, **Ashina M**. Part II: Biochemical changes after pituitary adenylate cyclase-activating polypeptide-38 infusion in migraine patients. *Cephalalgia*. 2017 Feb;37(2):136-147. doi: 10.1177/0333102416639517. Epub 2016 Jul 11. PMID: 26994298.
 119. Asghar MS, Becerra L, Larsson HB, Borsook D, **Ashina M**. Calcitonin Gene-Related Peptide Modulates Heat Nociception in the Human Brain - An fMRI Study in Healthy Volunteers. *PLoS One*. 2016 Mar 18;11(3):e0150334. doi: 10.1371/journal.pone.0150334. PMID: 26990646; PMCID: PMC4798403.
 120. Lindblad M, Hougaard A, Amin FM, **Ashina M**. Can migraine aura be provoked experimentally? A systematic review of potential methods for the provocation of migraine aura. *Cephalalgia*. 2017 Jan;37(1):74-88. doi: 10.1177/0333102416636097. Epub 2016 Sep 29. PMID: 26946372.
 121. Sun H, Dodick DW, Silberstein S, Goadsby PJ, Reuter U, **Ashina M**, Saper J, Cady R, Chon Y, Dietrich J, Lenz R. Safety and efficacy of AMG 334 for prevention of episodic migraine: a randomised, double-blind, placebo-controlled, phase 2 trial. *Lancet Neurol*. 2016 Apr;15(4):382-90. doi: 10.1016/S1474-4422(16)00019-3. Epub 2016 Feb 12. PMID: 26879279.
 122. Mitsikostas DD, **Ashina M**, Craven A, Diener HC, Goadsby PJ, Ferrari MD, Lampl C, Paemeleire K, Pascual J, Siva A, Olesen J, Osipova V, Martelletti P; EHF committee. European Headache Federation consensus on technical investigation for primary headache disorders. *J Headache Pain*. 2015;17:5. doi: 10.1186/s10194-016-0596-y. Epub 2016 Feb 9. PMID: 26857820; PMCID: PMC4747925.
 123. Schytz HW, Hargreaves R, **Ashina M**. Challenges in developing drugs for primary headaches. *Prog Neurobiol*. 2017 May;152:70-88. doi: 10.1016/j.pneurobio.2015.12.005. Epub 2016 Jan 2. PMID: 26751129.
 124. Hougaard A, Lindberg U, Arnglim N, Larsson HB, Olesen J, Amin FM, **Ashina M**, Haddock BT. Evidence of a Christmas spirit network in the brain: functional MRI study. Version 2. *BMJ*. 2015 Dec 16;351:h6266. doi: 10.1136/bmj.h6266. PMID: 26676562; PMCID: PMC4681765.
 125. Arnglim N, Schytz HW, Britze J, Amin FM, Vestergaard MB, Hougaard A, Wolfram F, de Koning PJ, Olsen KS, Secher NH, Larsson HB, Olesen J, **Ashina M**. Migraine induced by hypoxia: an MRI spectroscopy and angiography study. *Brain*. 2016 Mar;139(Pt 3):723-37. doi: 10.1093/brain/aww359. Epub 2015 Dec 16. PMID: 26674653.
 126. Amin FM, Hougaard A, Magon S, Asghar MS, Ahmad NN, Rostrup E, Sprenger T, **Ashina M**. Change in brain network connectivity during PACAP38-induced migraine attacks: A resting-state functional MRI study. *Neurology*. 2016 Jan 12;86(2):180-7. doi: 10.1212/WNL.0000000000002261. Epub 2015 Dec 16. PMID: 26674334.
 127. Jensen BH, Hougaard A, Amin FM, Larsson HB, **Ashina M**. Structural asymmetry of cortical visual areas is related to ocular dominance. *Neuroreport*. 2015 Dec 2;26(17):1071-6. doi: 10.1097/WNR.0000000000000470. PMID: 26509548.
 128. Lund A, Secher NH, Hirasawa A, Ogoh S, Hashimoto T, Schytz HW, **Ashina M**, Sørensen H. Ultrasound tagged near infrared spectroscopy does not detect hyperventilation-induced reduction in cerebral blood flow. *Scand J Clin Lab Invest*. 2016;76(1):82-7. doi: 10.3109/00365513.2015.1101485. Epub 2015 Oct 27. PMID: 26503121.
 129. Magon S, May A, Stankewitz A, Goadsby PJ, Tso AR, **Ashina M**, Amin FM, Seifert CL, Chakravarty MM, Müller J, Sprenger T. Morphological Abnormalities of Thalamic Subnuclei in Migraine: A Multicenter MRI Study at 3 Tesla. *J Neurosci*. 2015 Oct 7;35(40):13800-6. doi: 10.1523/JNEUROSCI.2154-15.2015. PMID: 26446230; PMCID: PMC6605376.
 130. Guo S, Esserlind AL, Andersson Z, Frederiksen AL, Olesen J, Vissing J, **Ashina M**. Prevalence of migraine in persons with the 3243A>G mutation in mitochondrial DNA. *Eur J Neurol*. 2016 Jan;23(1):175-81. doi: 10.1111/ene.12832. Epub 2015 Oct 5. PMID: 26435168.
 131. Guo S, Goetze JP, Jeppesen JL, Burnett JC, Olesen J, Jansen-Olesen I, **Ashina M**. Effect of natriuretic peptides on cerebral artery blood flow in healthy volunteers. *Peptides*. 2015 Dec;74:33-42. doi: 10.1016/j.peptides.2015.09.008. Epub 2015 Sep 28. PMID: 26417835.

132. Selb J, Yücel MA, Phillip D, Schytz HW, Iversen HK, Vangel M, **Ashina M**, Boas DA. Effect of motion artifacts and their correction on near-infrared spectroscopy oscillation data: a study in healthy subjects and stroke patients. *J Biomed Opt.* 2015 May;20(5):56011. doi: 10.1117/1.JBO.20.5.056011. PMID: 26018790; PMCID: PMC4445402.
133. Hougaard A, Jensen BH, Amin FM, Rostrup E, Hoffmann MB, **Ashina M**. Cerebral Asymmetry of fMRI-BOLD Responses to Visual Stimulation. *PLoS One.* 2015 May 18;10(5):e0126477. doi: 10.1371/journal.pone.0126477. PMID: 25985078; PMCID: PMC4436141.
134. Hansen EK, Guo S, **Ashina M**, Olesen J. Toward a pragmatic migraine model for drug testing: I. Cilostazol in healthy volunteers. *Cephalalgia.* 2016 Feb;36(2):172-8. doi: 10.1177/0333102415583986. Epub 2015 May 1. PMID: 25934317.
135. Khan S, Wibrandt I, Rochat P, **Ashina M**. The temporal evolution of a facial pain syndrome associated with neurovascular contact: a case report. *J Headache Pain.* 2015 Feb 11;16:12. doi: 10.1186/s10194-015-0497-5. PMID: 25904283; PMCID: PMC4384985.
136. Khan S, **Ashina M**. How specific is the translational animal model of trigeminal autonomic cephalalgias? *Headache.* 2015 Jan;55(1):204-5. doi: 10.1111/head.12473. PMID: 25600723.
137. Olesen J, **Ashina M**. Can nitric oxide induce migraine in normal individuals? *Cephalalgia.* 2015 Oct;35(12):1125-9. doi: 10.1177/0333102414566201. Epub 2015 Jan 8. PMID: 25573895.
138. Hougaard A, Amin FM, Magon S, Sprenger T, Rostrup E, **Ashina M**. No abnormalities of intrinsic brain connectivity in the interictal phase of migraine with aura. *Eur J Neurol.* 2015 Apr;22(4):702-e46. doi: 10.1111/ene.12636. Epub 2015 Jan 9. PMID: 25573335.
139. Gaist D, González-Pérez A, **Ashina M**, Rodríguez LA. Migraine and risk of hemorrhagic stroke: a study based on data from general practice. *J Headache Pain.* 2014 Nov 11;15(1):74. doi: 10.1186/1129-2377-15-74. PMID: 25387444; PMCID: PMC4238312.
140. Dodick DW, Goadsby PJ, Silberstein SD, Lipton RB, Olesen J, **Ashina M**, Wilks K, Kudrow D, Kroll R, Kohrman B, Bargar R, Hirman J, Smith J; ALD403 study investigators. Safety and efficacy of ALD403, an antibody to calcitonin gene-related peptide, for the prevention of frequent episodic migraine: a randomised, double-blind, placebo-controlled, exploratory phase 2 trial. *Lancet Neurol.* 2014 Nov;13(11):1100-1107. doi: 10.1016/S1474-4422(14)70209-1. Epub 2014 Oct 5. PMID: 25297013.
141. Guo S, Olesen J, **Ashina M**. Phosphodiesterase 3 inhibitor cilostazol induces migraine-like attacks via cyclic AMP increase. *Brain.* 2014 Nov;137(Pt 11):2951-9. doi: 10.1093/brain/awu244. Epub 2014 Aug 26. PMID: 25161294.
142. Guo S, Barringer F, Zois NE, Goetze JP, **Ashina M**. Natriuretic peptides and cerebral hemodynamics. *Regul Pept.* 2014 Jun-Aug;192-193:15-23. doi: 10.1016/j.regpep.2014.07.003. Epub 2014 Aug 6. PMID: 25107278.
143. Ezzatian-Ahar S, Amin FM, Obaid HG, Arngrim N, Hougaard A, Larsson HB, **Ashina M**. Migraine without aura is not associated with incomplete circle of Willis: a case-control study using high-resolution magnetic resonance angiography. *J Headache Pain.* 2014 May 10;15(1):27. doi: 10.1186/1129-2377-15-27. PMID: 24886373; PMCID: PMC4022992.
144. Amin FM, Lundholm E, Hougaard A, Arngrim N, Wiinberg L, de Koning PJ, Larsson HB, **Ashina M**. Measurement precision and biological variation of cranial arteries using automated analysis of 3 T magnetic resonance angiography. *J Headache Pain.* 2014 May 7;15(1):25. doi: 10.1186/1129-2377-15-25. PMID: 24886137; PMCID: PMC4229959.
145. Arngrim N, Schytz HW, Asghar MS, Amin FM, Hougaard A, Larsen VA, de Koning PJ, Larsson HB, Olesen J, **Ashina M**. Association of acetazolamide infusion with headache and cranial artery dilation in healthy volunteers. *Pain.* 2014 Aug;155(8):1649-58. doi: 10.1016/j.pain.2014.05.019. Epub 2014 May 23. PMID: 24861583.
146. Arngrim N, Schytz HW, Hauge MK, **Ashina M**, Olesen J. Carbon monoxide may be an important molecule in migraine and other headaches. *Cephalalgia.* 2014 Dec;34(14):1169-80. doi: 10.1177/0333102414534085. Epub 2014 May 9. PMID: 24816616.
147. Hougaard A, Amin FM, Hoffmann MB, Larsson HB, Magon S, Sprenger T, **Ashina M**. Structural gray matter abnormalities in migraine relate to headache lateralization, but not aura. *Cephalalgia.* 2015 Jan;35(1):3-9. doi: 10.1177/0333102414532378. Epub 2014 May 8. PMID: 24812034.
148. Hougaard A, Amin FM, **Ashina M**. Migraine and structural abnormalities in the brain. *Curr Opin Neurol.* 2014 Jun;27(3):309-14. doi: 10.1097/WCO.000000000000086. PMID: 24751961.
149. Amin FM, Hougaard A, Schytz HW, Asghar MS, Lundholm E, Parvaiz AI, de Koning PJ, Andersen MR, Larsson HB, Fahrenkrug J, Olesen J, **Ashina M**. Investigation of the pathophysiological mechanisms of migraine attacks induced by pituitary adenylate cyclase-activating polypeptide-38. *Brain.* 2014 Mar;137(Pt 3):779-94. doi: 10.1093/brain/awt369. Epub 2014 Feb 5. PMID: 24501094.
150. Schytz HW, **Ashina M**, Magyari M, Larsen VA, Olesen J, Iversen HK. Acute headache and persistent headache attributed to cervical artery dissection: Field testing of ICHD-III beta. *Cephalalgia.* 2014 Aug;34(9):712-716. doi: 10.1177/0333102414520767. Epub 2014 Feb 5. PMID: 24500814.
151. Hansen JM, **Ashina M**. Calcitonin gene-related peptide and migraine with aura: A systematic review. *Cephalalgia.* 2014 Aug;34(9):695-707. doi: 10.1177/0333102413520084. Epub 2014 Jan 22. PMID: 24452423.

152. Phillip D, Iversen HK, Schytz HW, Selb J, Boas DA, **Ashina M**. Altered Low Frequency Oscillations of Cortical Vessels in Patients with Cerebrovascular Occlusive Disease - A NIRS Study. *Front Neurol*. 2013 Dec 16;4:204. doi: 10.3389/fneur.2013.00204. PMID: 24379801; PMCID: PMC3864103.
153. Khan S, Schoenen J, **Ashina M**. Sphenopalatine ganglion neuromodulation in migraine: what is the rationale? *Cephalalgia*. 2014 Apr;34(5):382-91. doi: 10.1177/0333102413512032. Epub 2013 Nov 29. PMID: 24293088.
154. Hougaard A, Amin FM, Hoffmann MB, Rostrup E, Larsson HB, Asghar MS, Larsen VA, Olesen J, **Ashina M**. Interhemispheric differences of fMRI responses to visual stimuli in patients with side-fixed migraine aura. *Hum Brain Mapp*. 2014 Jun;35(6):2714-23. doi: 10.1002/hbm.22361. Epub 2013 Sep 3. PMID: 24038870; PMCID: PMC6869529.
155. Bashir A, Lipton RB, Ashina S, **Ashina M**. Migraine and structural changes in the brain: a systematic review and meta-analysis. *Neurology*. 2013 Oct 1;81(14):1260-8. doi: 10.1212/WNL.0b013e3182a6cb32. Epub 2013 Aug 28. PMID: 23986301; PMCID: PMC3795609.
156. Amin FM, Olesen J, **Ashina M**. Intracranial and extracranial arteries in migraine--authors' reply. *Lancet Neurol*. 2013 Sep;12(9):848-849. doi: 10.1016/S1474-4422(13)70167-4. PMID: 23948172.
157. Guo S, Shalchian S, Gérard P, Küper M, Katsarava Z, **Ashina M**, Schoenen J. Prevalence of right-to-left shunts on transcranial Doppler in chronic migraine and medication-overuse headache. *Cephalalgia*. 2014 Jan;34(1):37-41. doi: 10.1177/0333102413497600. Epub 2013 Jul 10. PMID: 23843469.
158. **Ashina M**, Hansen JM, Olesen J. Pearls and pitfalls in human pharmacological models of migraine: 30 years' experience. *Cephalalgia*. 2013 Jun;33(8):540-53. doi: 10.1177/0333102412475234. PMID: 23671251.
159. Amin FM, Asghar MS, Ravneberg JW, de Koning PJ, Larsson HB, Olesen J, **Ashina M**. The effect of sumatriptan on cephalic arteries: A 3T MR-angiography study in healthy volunteers. *Cephalalgia*. 2013 Sep;33(12):1009-16. doi: 10.1177/0333102413483374. Epub 2013 Apr 15. PMID: 23588794.
160. Munksgaard SB, **Ashina M**. Begivenheder i Dansk Hovedpine Selskab i 2012 [Events in the Danish Headache Society in 2012]. *Ugeskr Laeger*. 2013 Mar 18;175(12):798. Danish. PMID: 23582804.
161. Amin FM, Asghar MS, Hougaard A, Hansen AE, Larsen VA, de Koning PJ, Larsson HB, Olesen J, **Ashina M**. Magnetic resonance angiography of intracranial and extracranial arteries in patients with spontaneous migraine without aura: a cross-sectional study. *Lancet Neurol*. 2013 May;12(5):454-61. doi: 10.1016/S1474-4422(13)70067-X. Epub 2013 Apr 9. PMID: 23578775.
162. Antonova M, Wienecke T, Olesen J, **Ashina M**. Prostaglandins in migraine: update. *Curr Opin Neurol*. 2013 Jun;26(3):269-75. doi: 10.1097/WCO.0b013e328360864b. PMID: 23519238.
163. Schytz HW, Jensen BE, Jennum P, Selb J, Boas DA, **Ashina M**. Low-frequency oscillations and vasoreactivity of cortical vessels in obstructive sleep apnea during wakefulness: a near infrared spectroscopy study. *Sleep Med*. 2013 May;14(5):416-21. doi: 10.1016/j.sleep.2012.12.009. Epub 2013 Mar 19. PMID: 23517585; PMCID: PMC6420812.
164. Guo S, **Ashina M**, Olesen J, Birk S. The effect of sodium nitroprusside on cerebral hemodynamics and headache in healthy subjects. *Cephalalgia*. 2013 Apr;33(5):301-7. doi: 10.1177/0333102412475239. Epub 2013 Feb 12. PMID: 23405018.
165. Schytz HW, Barløse M, Guo S, Selb J, Caparso A, Jensen R, **Ashina M**. Experimental activation of the sphenopalatine ganglion provokes cluster-like attacks in humans. *Cephalalgia*. 2013 Jul;33(10):831-41. doi:10.1177/0333102413476370. Epub 2013 Feb 4. PMID: 23382519.
166. Hougaard A, Amin FM, Hauge AW, **Ashina M**, Olesen J. Provocation of migraine with aura using natural trigger factors. *Neurology*. 2013 Jan 29;80(5):428-31. doi: 10.1212/WNL.0b013e31827f0f10. Epub 2013 Jan 23. Erratum in: *Neurology*. 2013 Mar 12;80(11):1069. Amin, Faisal [corrected to Amin, Faisal Mohammad]. PMID: 23345632.
167. Cooper RJ, Selb J, Gagnon L, Phillip D, Schytz HW, Iversen HK, **Ashina M**, Boas DA. A systematic comparison of motion artifact correction techniques for functional near-infrared spectroscopy. *Front Neurosci*. 2012 Oct 11;6:147. doi: 10.3389/fnins.2012.00147. PMID: 23087603; PMCID: PMC3468891.
168. Phillip D, Schytz HW, Selb J, Payne S, Iversen HK, Skovgaard LT, Boas DA, **Ashina M**. Low frequency oscillations in cephalic vessels assessed by near infrared spectroscopy. *Eur J Clin Invest*. 2012 Nov;42(11):1180-8. doi: 10.1111/j.1365-2362.2012.02704.x. Epub 2012 Aug 16. PMID: 22897146; PMCID: PMC3730271.
169. Antonova M, Wienecke T, Olesen J, **Ashina M**. Prostaglandin E(2) induces immediate migraine-like attack in migraine patients without aura. *Cephalalgia*. 2012 Aug;32(11):822-33. doi: 10.1177/0333102412451360. Epub 2012 Jun 19. PMID: 22718556.
170. Schytz HW, Guo S, Jensen LT, Kamar M, Nini A, Gress DR, **Ashina M**. A new technology for detecting cerebral blood flow: a comparative study of ultrasound tagged NIRS and 133Xe-SPECT. *Neurocrit Care*. 2012 Aug;17(1):139-45. doi: 10.1007/s12028-012-9720-2. PMID: 22610823.
171. **Ashina M**. Vascular changes have a primary role in migraine. *Cephalalgia*. 2012 Apr;32(5):428-30. doi: 10.1177/0333102412438978. PMID: 22523234.
172. Schytz HW, Hansen JM, Phillip D, Selb J, Boas DA, **Ashina M**. Nitric oxide modulation of low-frequency oscillations in cortical vessels in FHM--a NIRS study. *Headache*. 2012 Jul-Aug;52(7):1146-54. doi: 10.1111/j.1526-4610.2012.02098.x. Epub 2012 Feb 21. PMID: 22352839; PMCID: PMC3730264.

173. Asghar MS, Hansen AE, Larsson HB, Olesen J, **Ashina M**. Effect of CGRP and sumatriptan on the BOLD response in visual cortex. *J Headache Pain*. 2012 Mar;13(2):159-66. doi: 10.1007/s10194-011-0415-4. Epub 2012 Jan 14. PMID: 22246026; PMCID: PMC3274575.
174. Amin FM, Asghar MS, Guo S, Hougaard A, Hansen AE, Schytz HW, van der Geest RJ, de Koning PJ, Larsson HB, Olesen J, **Ashina M**. Headache and prolonged dilatation of the middle meningeal artery by PACAP38 in healthy volunteers. *Cephalalgia*. 2012 Jan;32(2):140-9. doi: 10.1177/0333102411431333. Epub 2011 Dec 15. PMID: 22174350.
175. Antonova M, Wienecke T, Olesen J, **Ashina M**. Pro-inflammatory and vasoconstricting prostanoid PGF₂ α causes no headache in man. *Cephalalgia*. 2011 Nov;31(15):1532-41. doi: 10.1177/0333102411423314. Epub 2011 Oct 19. PMID: 22013143.
176. Hansen JM, Schytz HW, Larsen VA, Iversen HK, **Ashina M**. Hemiplegic migraine aura begins with cerebral hypoperfusion: imaging in the acute phase. *Headache*. 2011 Sep;51(8):1289-96. doi: 10.1111/j.1526-4610.2011.01963.x. Epub 2011 Jul 28. PMID: 21797860.
177. Hansen JM, Hauge AW, **Ashina M**, Olesen J. Trigger factors for familial hemiplegic migraine. *Cephalalgia*. 2011 Sep;31(12):1274-81. doi: 10.1177/0333102411415878. Epub 2011 Jul 22. PMID: 21784774.
178. Asghar MS, Hansen AE, Pedersen S, Larsson HB, **Ashina M**. Pharmacological modulation of the BOLD response: a study of acetazolamide and glyceryl trinitrate in humans. *J Magn Reson Imaging*. 2011 Oct;34(4):921-7. doi: 10.1002/jmri.22659. Epub 2011 Jul 18. PMID: 21769961.
179. Antonova M, Wienecke T, Maubach K, Thomas E, Olesen J, **Ashina M**. The pharmacological effect of BGC20-1531, a novel prostanoid EP4 receptor antagonist, in the prostaglandin E2 human model of headache. Version 2. *J Headache Pain*. 2011 Oct;12(5):551-9. doi: 10.1007/s10194-011-0358-9. Epub 2011 Jun 17. PMID: 21681585; PMCID: PMC3173651.
180. Guo S, Vecsei L, **Ashina M**. The L-kynurenine signalling pathway in trigeminal pain processing: a potential therapeutic target in migraine? *Cephalalgia*. 2011 Jul;31(9):1029-38. doi: 10.1177/0333102411404717. Epub 2011 May 18. PMID: 21593189.
181. Olesen J, **Ashina M**. Emerging migraine treatments and drug targets. *Trends Pharmacol Sci*. 2011 Jun;32(6):352-9. doi: 10.1016/j.tips.2011.02.016. Epub 2011 Apr 2. PMID: 21459461.
182. Hansen JM, Thomsen LL, Olesen J, **Ashina M**. Calcitonin gene-related peptide does not cause migraine attacks in patients with familial hemiplegic migraine. *Headache*. 2011 Apr;51(4):544-53. doi: 10.1111/j.1526-4610.2011.01861.x. PMID: 21457239.
183. Viken J, Bendtsen L, Hansen K, Katholm M, Laursen H, Hastrup N, Gideon P, **Ashina M**. Facial pain and multiple cranial palsies in a patient with skin cancer. Version 2. *J Headache Pain*. 2011 Jun;12(3):381-3. doi: 10.1007/s10194-011-0324-6. Epub 2011 Mar 31. PMID: 21452009; PMCID: PMC3094675.
184. Asghar MS, Hansen AE, Amin FM, van der Geest RJ, Koning Pv, Larsson HB, Olesen J, **Ashina M**. Evidence for a vascular factor in migraine. *Ann Neurol*. 2011 Apr;69(4):635-45. doi: 10.1002/ana.22292. Epub 2011 Mar 17. PMID: 21416486.
185. **Ashina M**, Tfelt-Hansen P, Dalgaard P, Olesen J. Lack of correlation between vasodilatation and pharmacologically induced immediate headache in healthy subjects. *Cephalalgia*. 2011 Apr;31(6):683-90. doi: 10.1177/0333102410394672. Epub 2011 Jan 28. PMID: 21278241.
186. Connor KM, Aurora SK, Loeyes T, **Ashina M**, Jones C, Giezek H, Massaad R, Williams-Diaz A, Lines C, Ho TW. Long-term tolerability of telcagepant for acute treatment of migraine in a randomized trial. *Headache*. 2011 Jan;51(1):73-84. doi: 10.1111/j.1526-4610.2010.01799.x. Epub 2010 Nov 10. PMID: 21070230.
187. Asghar MS, Hansen AE, Kapijimpanga T, van der Geest RJ, van der Koning P, Larsson HB, Olesen J, **Ashina M**. Dilation by CGRP of middle meningeal artery and reversal by sumatriptan in normal volunteers. *Neurology*. 2010 Oct 26;75(17):1520-6. doi: 10.1212/WNL.0b013e3181f9626a. PMID: 20975053.
188. Ho AP, Dahlöf CG, Silberstein SD, Saper JR, **Ashina M**, Kost JT, Froman S, Leibensperger H, Lines CR, Ho TW. Randomized, controlled trial of telcagepant over four migraine attacks. *Cephalalgia*. 2010 Dec;30(12):1443-57. doi: 10.1177/0333102410370878. Epub 2010 Jun 8. PMID: 20974601.
189. Wienecke T, Olesen J, **Ashina M**. Discrepancy between strong cephalic arterial dilatation and mild headache caused by prostaglandin D₂ (PGD₂). *Cephalalgia*. 2011 Jan;31(1):65-76. doi: 10.1177/0333102410373156. Epub 2010 Jun 15. PMID: 20974593.
190. Schytz HW, Hansson A, Phillip D, Selb J, Boas DA, Iversen HK, **Ashina M**. Spontaneous low-frequency oscillations in cerebral vessels: applications in carotid artery disease and ischemic stroke. *J Stroke Cerebrovasc Dis*. 2010 Nov-Dec;19(6):465-74. doi: 10.1016/j.jstrokecerebrovasdis.2010.06.001. PMID: 20864356; PMCID: PMC3752675.
191. Hansen JM, Hauge AW, Olesen J, **Ashina M**. Calcitonin gene-related peptide triggers migraine-like attacks in patients with migraine with aura. *Cephalalgia*. 2010 Oct;30(10):1179-86. doi: 10.1177/0333102410368444. Epub 2010 May 12. PMID: 20855363.
192. **Ashina M**, Hansen JM. Pharmacological migraine provocation: a human model of migraine. *Handb Clin Neurol*. 2010;97:773-9. doi: 10.1016/S0072-9752(10)97063-2. PMID: 20816469.
193. Hansen JM, Bolla M, Magis D, de Pasqua V, **Ashina M**, Thomsen LL, Olesen J, Schoenen J. Habituation of evoked responses is greater in patients with familial hemiplegic migraine than in controls: a contrast with the

- common forms of migraine. *Eur J Neurol.* 2011 Mar;18(3):478-85. doi: 10.1111/j.1468-1331.2010.03190.x. Epub 2010 Aug 18. PMID: 20727009.
194. Schytz HW, Holst H, Arendt-Nielsen L, Olesen J, **Ashina M.** Cutaneous nociception and neurogenic inflammation evoked by PACAP38 and VIP. *J Headache Pain.* 2010 Aug;11(4):309-16. doi: 10.1007/s10194-010-0214-3. Epub 2010 May 9. PMID: 20454993; PMCID: PMC3476346.
 195. Schytz HW, Olesen J, **Ashina M.** The PACAP receptor: a novel target for migraine treatment. *Neurotherapeutics.* 2010 Apr;7(2):191-6. doi: 10.1016/j.nurt.2010.02.003. PMID: 20430318; PMCID: PMC5084100.
 196. Schytz HW, Schoonman GG, **Ashina M.** What have we learnt from triggering migraine? *Curr Opin Neurol.* 2010 Jun;23(3):259-65. doi: 10.1097/WCO.0b013e328337b884. PMID: 20173638.
 197. Hansen JM, Thomsen LL, Olesen J, **Ashina M.** Coexisting typical migraine in familial hemiplegic migraine. *Neurology.* 2010 Feb 16;74(7):594-600. doi: 10.1212/WNL.0b013e328181cff79d. PMID: 20157162.
 198. Tfelt-Hansen P, **Ashina M.** CGRP in migraine. *J Headache Pain.* 2009 Oct;10(5):385; author reply 387-8. doi: 10.1007/s10194-009-0139-x. Epub 2009 Aug 19. PMID: 19690942; PMCID: PMC3452099.
 199. Tfelt-Hansen P, **Ashina M.** Extracranial source of increased CGRP in migraine children? *Cephalalgia.* 2010 Mar;30(3):380-1. doi: 10.1111/j.1468-2982.2009.01953.x. Epub 2010 Feb 1. PMID: 19673899.
 200. Schytz HW, Ciftçi K, Akin A, **Ashina M,** Bolay H. Intact neurovascular coupling during executive function in migraine without aura: interictal near-infrared spectroscopy study. *Cephalalgia.* 2010 Apr;30(4):457-66. doi: 10.1111/j.1468-2982.2009.01986.x. Epub 2010 Feb 11. PMID: 19673896.
 201. **Ashina M,** Tvedskov JF, Lipka K, Bilello J, Penkowa M, Olesen J. Matrix metalloproteinases during and outside of migraine attacks without aura. *Cephalalgia.* 2010 Mar;30(3):303-10. doi: 10.1111/j.1468-2982.2009.01954.x. Epub 2010 Feb 1. PMID: 19614693.
 202. Wienecke T, Olesen J, **Ashina M.** Prostaglandin I2 (epoprostenol) triggers migraine-like attacks in migraineurs. *Cephalalgia.* 2010 Feb;30(2):179-90. doi: 10.1111/j.1468-2982.2009.01923.x. PMID: 19614689.
 203. Schytz HW, Wienecke T, Olesen J, **Ashina M.** Carbachol induces headache, but not migraine-like attacks, in patients with migraine without aura. *Cephalalgia.* 2010 Mar;30(3):337-45. doi: 10.1111/j.1468-2982.2009.01929.x. Epub 2010 Feb 15. PMID: 19614687.
 204. Olesen J, Burstein R, **Ashina M,** Tfelt-Hansen P. Origin of pain in migraine: evidence for peripheral sensitisation. *Lancet Neurol.* 2009 Jul;8(7):679-90. doi: 10.1016/S1474-4422(09)70090-0. PMID: 19539239.
 205. Hansen JM, Petersen J, Wienecke T, Olsen KS, Jensen LT, **Ashina M.** Sumatriptan does not change calcitonin gene-related peptide in the cephalic and extracephalic circulation in healthy volunteers. *J Headache Pain.* 2009 Apr;10(2):85-91. doi: 10.1007/s10194-009-0102-x. Epub 2009 Mar 6. PMID: 19266171; PMCID: PMC3451653.
 206. Olesen J, Tfelt-Hansen P, **Ashina M.** Finding new drug targets for the treatment of migraine attacks. *Cephalalgia.* 2009 Sep;29(9):909-20. doi: 10.1111/j.1468-2982.2008.01837.x. Epub 2009 Feb 25. PMID: 19250288.
 207. Schytz HW, Wienecke T, Jensen LT, Selb J, Boas DA, **Ashina M.** Changes in cerebral blood flow after acetazolamide: an experimental study comparing near-infrared spectroscopy and SPECT. *Eur J Neurol.* 2009 Apr;16(4):461-7. doi: 10.1111/j.1468-1331.2008.02398.x. PMID: 19236469; PMCID: PMC2782727.
 208. Wienecke T, Olesen J, Oturai PS, **Ashina M.** Prostaglandin E2 (PGE2) induces headache in healthy subjects. *Cephalalgia.* 2009 May;29(5):509-19. doi: 10.1111/j.1468-2982.2008.01748.x. Epub 2009 Feb 2. PMID: 19187340.
 209. Schytz HW, Wienecke T, Oturai PS, Olesen J, **Ashina M.** The cholinomimetic agent carbachol induces headache in healthy subjects. *Cephalalgia.* 2009 Feb;29(2):258-68. doi: 10.1111/j.1468-2982.2008.01715.x. PMID: 19143771.
 210. Schytz HW, Birk S, Wienecke T, Kruuse C, Olesen J, **Ashina M.** PACAP38 induces migraine-like attacks in patients with migraine without aura. *Brain.* 2009 Jan;132(Pt 1):16-25. doi: 10.1093/brain/awn307. Epub 2008 Dec 3. PMID: 19052139.
 211. Tfelt-Hansen P, **Ashina M,** Olesen J. Kliniske symptomer og patofysiologi ved migraene [Clinical symptoms and pathophysiology of migraine]. *Ugeskr Laeger.* 2008 Oct 6;170(41):3231-4. Danish. PMID: 18940154.
 212. Hansen JM, Thomsen LL, Olesen J, **Ashina M.** Calcitonin gene-related peptide does not cause the familial hemiplegic migraine phenotype. *Neurology.* 2008 Sep 9;71(11):841-7. doi: 10.1212/01.wnl.0000325482.64106.3f. PMID: 18779512.
 213. Wienecke T, Hansen JM, Petersen J, Olsen KS, **Ashina M,** Tfelt-Hansen P. Sumatriptan does not affect arteriovenous oxygen differences in jugular and cubital veins in normal human subjects. *Cephalalgia.* 2008 Oct;28(10):1081-5. doi: 10.1111/j.1468-2982.2008.01602.x. Epub 2008 Jun 6. PMID: 18540871.
 214. Wienecke T, Olesen J, Oturai PS, **Ashina M.** Prostacyclin (epoprostenol) induces headache in healthy subjects. *Pain.* 2008 Sep 30;139(1):106-16. doi: 10.1016/j.pain.2008.03.018. Epub 2008 May 2. PMID: 18450380.
 215. **Ashina M,** Jensen RH. Et nyt behandlingsprincip til migraene [A new therapeutic principle for migraine]. *Ugeskr Laeger.* 2008 Mar 17;170(12):1029. Danish. PMID: 18397647.
 216. Hansen JM, Thomsen LL, Olesen J, **Ashina M.** Familial hemiplegic migraine type 1 shows no hypersensitivity to nitric oxide. *Cephalalgia.* 2008 May;28(5):496-505. doi: 10.1111/j.1468-2982.2008.01559.x. Epub 2008 Mar 31. PMID: 18384418.

217. Hansen JM, Thomsen LL, Marconi R, Casari G, Olesen J, **Ashina M**. Familial hemiplegic migraine type 2 does not share hypersensitivity to nitric oxide with common types of migraine. *Cephalalgia*. 2008 Apr;28(4):367-75. doi: 10.1111/j.1468-2982.2008.01542.x. Epub 2008 Feb 22. PMID: 18294248.
218. Rahmann A, Wienecke T, Hansen JM, Fahrenkrug J, Olesen J, **Ashina M**. Vasoactive intestinal peptide causes marked cephalic vasodilation, but does not induce migraine. *Cephalalgia*. 2008 Mar;28(3):226-36. doi: 10.1111/j.1468-2982.2007.01497.x. PMID: 18254893.
219. **Ashina M**. Pathophysiology of tension-type headache: potential drug targets. *CNS Neurol Disord Drug Targets*. 2007 Aug;6(4):238-9. doi: 10.2174/187152707781387297. PMID: 17691978.
220. Hansen JM, Pedersen DI, Larsen VA, Sánchez-del-Río M, Alvarez Linera JR, Olesen J, **Ashina M**. Magnetic resonance angiography shows dilatation of the middle cerebral artery after infusion of glyceryl trinitrate in healthy volunteers. *Cephalalgia*. 2007 Feb;27(2):118-27. doi: 10.1111/j.1468-2982.2006.01257.x. PMID: 17257231.
221. Hansen JM, Sitarz J, Birk S, Rahmann AM, Oturai PS, Fahrenkrug J, Olesen J, **Ashina M**. Vasoactive intestinal polypeptide evokes only a minimal headache in healthy volunteers. *Cephalalgia*. 2006 Aug;26(8):992-1003. doi: 10.1111/j.1468-2982.2006.01149.x. PMID: 16886936.
222. Ashina S, Bendtsen L, **Ashina M**, Magerl W, Jensen R. Generalized hyperalgesia in patients with chronic tension-type headache. *Cephalalgia*. 2006 Aug;26(8):940-8. doi: 10.1111/j.1468-2982.2006.01150.x. PMID: 16886930.
223. Ashina S, Zeeberg P, Jensen RH, **Ashina M**. Medicinoverforbrugshovedpine [Medication overuse headache]. *Ugeskr Laeger*. 2006 Mar 6;168(10):1015-9. Danish. PMID: 16522292.
224. Ashina S, Bendtsen L, **Ashina M**. Pathophysiology of tension-type headache. *Curr Pain Headache Rep*. 2005 Dec;9(6):415-22. doi: 10.1007/s11916-005-0021-8. PMID: 16282042.
225. Christensen MB, Bendtsen L, **Ashina M**, Jensen R. Experimental induction of muscle tenderness and headache in tension-type headache patients. *Cephalalgia*. 2005 Nov;25(11):1061-7. doi: 10.1111/j.1468-2982.2005.00962.x. PMID: 16232158.
226. Tvedskov JF, Lipka K, **Ashina M**, Iversen HK, Schifter S, Olesen J. No increase of calcitonin gene-related peptide in jugular blood during migraine. *Ann Neurol*. 2005 Oct;58(4):561-8. doi: 10.1002/ana.20605. PMID: 16178016.
227. Ashina S, Hantho A, Olesen J, **Ashina M**. Hovedpine [Headache]. *Ugeskr Laeger*. 2005 Aug 22;167(34):3192. Danish. PMID: 16117921.
228. Ashina S, Babenko L, Jensen R, **Ashina M**, Magerl W, Bendtsen L. Increased muscular and cutaneous pain sensitivity in cephalic region in patients with chronic tension-type headache. *Eur J Neurol*. 2005 Jul;12(7):543-9. doi: 10.1111/j.1468-1331.2005.01023.x. PMID: 15958095.
229. **Ashina M**, Jorgensen M, Stallknecht B, Mork H, Bendtsen L, Pedersen JF, Olesen J, Jensen R. No release of interstitial glutamate in experimental human model of muscle pain. *Eur J Pain*. 2005 Jun;9(3):337-43. doi: 10.1016/j.ejpain.2004.09.004. PMID: 15862483.
230. Ashina S, **Ashina M**. Headache in systemic mastocytosis: a case report with pathophysiological considerations. *Cephalalgia*. 2005 Apr;25(4):314-6. doi: 10.1111/j.1468-2982.2004.00852.x. PMID: 5773831.
231. **Ashina M**, Simonsen H, Bendtsen L, Jensen R, Olesen J. Glyceryl trinitrate may trigger endogenous nitric oxide production in patients with chronic tension-type headache. *Cephalalgia*. 2004 Nov;24(11):967-72. doi: 10.1111/j.1468-2982.2004.00780.x. PMID: 15482360.
232. Mørk H, **Ashina M**, Bendtsen L, Olesen J, Jensen R. Possible mechanisms of pain perception in patients with episodic tension-type headache. A new experimental model of myofascial pain. *Cephalalgia*. 2004 Jun;24(6):466-75. doi: 10.1111/j.1468-2982.2004.00709.x. PMID: 15154856.
233. **Ashina M**. Neurobiology of chronic tension-type headache. *Cephalalgia*. 2004 Mar;24(3):161-72. doi: 10.1111/j.1468-2982.2003.00644.x. PMID: 15009009.
234. Ashina S, **Ashina M**. Current and potential future drug therapies for tension-type headache. *Curr Pain Headache Rep*. 2003 Dec;7(6):466-74. doi: 10.1007/s11916-003-0063-8. PMID: 14604506.
235. **Ashina M**. Calcitonin gene-related peptide in tension-type headache. *ScientificWorldJournal*. 2002 Jun 7;2:1527-31. doi: 10.1100/tsw.2002.808. PMID: 12806133; PMCID: PMC6009354.
236. Mørk H, **Ashina M**, Bendtsen L, Olesen J, Jensen R. Induction of prolonged tenderness in patients with tension-type headache by means of a new experimental model of myofascial pain. *Eur J Neurol*. 2003 May;10(3):249-56. doi: 10.1046/j.1468-1331.2003.00570.x. PMID: 12752398.
237. **Ashina M**, Stallknecht B, Bendtsen L, Pedersen JF, Schifter S, Galbo H, Olesen J. Tender points are not sites of ongoing inflammation -in vivo evidence in patients with chronic tension-type headache. *Cephalalgia*. 2003 Mar;23(2):109-16. doi: 10.1046/j.1468-2982.2003.00520.x. PMID: 12603367.
238. Mørk H, **Ashina M**, Bendtsen L, Olesen J, Jensen R. Experimental muscle pain and tenderness following infusion of endogenous substances in humans. *Eur J Pain*. 2003;7(2):145-53. doi: 10.1016/S1090-3801(02)00096-4. PMID: 12600796.
239. **Ashina M**. Nitric oxide synthase inhibitors for the treatment of chronic tension-type headache. *Expert Opin Pharmacother*. 2002 Apr;3(4):395-9. doi: 10.1517/14656566.3.4.395. PMID: 11934342.

240. **Ashina M**, Stallknecht B, Bendtsen L, Pedersen JF, Galbo H, Dalgaard P, Olesen J. In vivo evidence of altered skeletal muscle blood flow in chronic tension-type headache. *Brain*. 2002 Feb;125(Pt 2):320-6. doi: 10.1093/brain/awf029. PMID: 11844732.
241. **Ashina M**, Bendtsen L, Jensen R, Sakai F, Olesen J. Possible mechanisms of glyceryl-trinitrate-induced immediate headache in patients with chronic tension-type headache. *Cephalalgia*. 2000 Dec;20(10):919-24. doi: 10.1046/j.1468-2982.2000.00150.x. PMID: 11304027.
242. **Ashina M**, Bendtsen L, Jensen R, Schifter S, Olesen J. Calcitonin gene-related peptide levels during nitric oxide-induced headache in patients with chronic tension-type headache. *Eur J Neurol*. 2001 Mar;8(2):173-8. doi: 10.1046/j.1468-1331.2001.00191.x. PMID: 11284996.
243. **Ashina M**, Bendtsen L, Jensen R, Schifter S, Jansen-Olesen I, Olesen J. Plasma levels of calcitonin gene-related peptide in chronic tension-type headache. *Neurology*. 2000 Nov 14;55(9):1335-40. doi: 10.1212/wnl.55.9.1335. PMID: 11087777.
244. **Ashina M**, Bendtsen L, Jensen R, Olesen J. Nitric oxide-induced headache in patients with chronic tension-type headache. *Brain*. 2000 Sep;123 (Pt 9):1830-7. doi: 10.1093/brain/123.9.1830. PMID: 10960046.
245. **Ashina M**, Bendtsen L, Jensen R, Schifter S, Olesen J. Evidence for increased plasma levels of calcitonin gene-related peptide in migraine outside of attacks. *Pain*. 2000 May;86(1-2):133-8. doi: 10.1016/s0304-3959(00)00232-3. PMID: 10779670.
246. **Ashina M**, Lassen LH, Bendtsen L, Jensen RA, Olesen J. Haemning af nitrogenoxid-syntase har analgetisk effekt ved kronisk smerte [Inhibition of nitric oxide synthase has an analgesic effect in chronic pain]. *Ugeskr Laeger*. 2000 Jan 10;162(2):171-3. Danish. PMID: 10647315.
247. **Ashina M**, Bendtsen L, Jensen R, Ekman R, Olesen J. Plasma levels of substance P, neuropeptide Y and vasoactive intestinal polypeptide in patients with chronic tension-type headache. *Pain*. 1999 Dec;83(3):541-7. doi: 10.1016/s0304-3959(99)00159-1. PMID: 10568863.
248. **Ashina M**, Bendtsen L, Jensen R, Lassen LH, Sakai F, Olesen J. Possible mechanisms of action of nitric oxide synthase inhibitors in chronic tension-type headache. *Brain*. 1999 Sep;122 (Pt 9):1629-35. doi: 10.1093/brain/122.9.1629. PMID: 10468503.
249. **Ashina M**, Bendtsen L, Jensen R, Sakai F, Olesen J. Muscle hardness in patients with chronic tension-type headache: relation to actual headache state. *Pain*. 1999 Feb;79(2-3):201-5. doi: 10.1016/s0304-3959(98)00167-5. PMID: 10068165.
250. **Ashina M**, Lassen LH, Bendtsen L, Jensen R, Olesen J. Effect of inhibition of nitric oxide synthase on chronic tension-type headache: a randomized crossover trial. *Lancet*. 1999 Jan 23;353(9149):287-9. doi: 10.1016/s0140-6736(98)01079-4. PMID: 9929022.
251. Lassen LH, **Ashina M**, Christiansen I, Ulrich V, Grover R, Donaldson J, Olesen J. Nitric oxide synthase inhibition: a new principle in the treatment of migraine attacks. *Cephalalgia*. 1998 Jan;18(1):27-32. doi: 10.1046/j.1468-2982.1998.1801027.x. PMID: 9601621.
252. **Ashina M**, Bendtsen L, Jensen R, Sakai F, Olesen J. Measurement of muscle hardness: a methodological study. *Cephalalgia*. 1998 Mar;18(2):106-11. doi: 10.1046/j.1468-2982.1998.1802106.x. PMID: 9533608.
253. Lassen LH, **Ashina M**, Christiansen I, Ulrich V, Olesen J. Nitric oxide synthase inhibition in migraine. *Lancet*. 1997 Feb 8;349(9049):401-2. doi: 10.1016/s0140-6736(97)80021-9. PMID: 9033475.