

Michel Dominique Ferrari, MD, PhD, FANA, FRCP
Professor of Neurology
Chair Leiden Centre for Translational Neuroscience (LCTN)
President Dutch Headache Society (DHS)
Past President International Headache Society (IHS)
Fellow American Neurology Association (USA) & Royal College of Physicians (London)
Laureate of the Netherlands Organisation for Scientific Research (NWO)
Vici 2004, Spinoza 2009 and Gravity 2017

CURRICULUM VITAE
(Updated 9th May, 2017)

Work Address

Department of Neurology
Leiden University Medical Centre (LUMC)
PO Box 9600; 2300 RC Leiden; The Netherlands (NL)
Tel: 31-(0)71-5262895 & Fax: 31-(0)71-5248253
Email: M.D.Ferrari@LUMC.NL
Website: www.lumc.nl/hoofdpijn

Biographical and Personal Information

Date of Birth 15th July 1954,
Place of Birth Tandjong Pandan, Billiton, Indonesia
Nationality Swiss (The Netherlands is permanent domicile since 1960)
Marital status Married & two children: Roderick (1984) & Rosanne (1987)

Pre-University Training

1966 - '72 Gymnasium Bêta, Aloysius College, The Hague, NL

Medical School and Rotating Internships

1972 - '80 Medical School, Leiden University, NL
BIG: 69020954301

Post-Graduate Medical Training

1981 - '85 Resident & Chief Resident, Department of Neurology, University Hospital, Leiden, NL (Head: Prof. Dr. G.W. Bruyn)
1985 - '86 Fellow Dept. Clinical Neurophysiology, University Hospital, Leiden, NL

Doctorate

1992 Ph.D. (*cum laude*) Leiden University
“Serotonin and Migraine – Biochemical, Pharmacological and Therapeutical Aspects”
Supervisors: Prof. Dr. G.W. Bruyn & Prof. Dr. P.R. Saxena

Special Training

March '88: Medical Statistics, Dr. K. MacRae, University of London, UK
May '90: Advanced Course Medical Statistics, Ibid

Appointments and Positions Held

1980 - 1981 Research Fellow, Laboratory for Cerebrovascular Diseases and Headache, Baylor College of Medicine, Houston, TX, USA (Head. Prof. K.M.A. Welch)
1986 - 1997 Senior Lecturer & Consultant Neurologist, Department of Neurology, LUMC
1990 Visiting Scientist, Stroke Research Laboratory, Massachusetts General Hospital, Harvard Medical School, Boston (Head: Prof. M.A. Moskowitz)
1997 - 2001 Associate Professor & Consultant Neurologist, Department of Neurology, LUMC
2002 - Present Professor & Consultant Neurologist, Department of Neurology, LUMC
2007 - Present Chair Leiden Centre for Translational Neuroscience (LCTN)
2016 - Present Executive Committee Leiden University Priority Research Profile “Brain function and dysfunction”

Qualifications, Distinctions, Honours & Awards

1980	M.D.
1985	Consultant Neurologist
1992	Ph.D. (<i>Cum Laude</i>) Leiden University: “Serotonin in Migraine”
1995	Arnold Friedman Distinguished Clinician/Researcher Award of the American Association for the Study of Headache. 37 th Annual Scientific Meeting of the American Headache Society Boston, USA
1997	H.G. Wolff Award for Excellence in Headache Research of the American Association for the Study of Headache. 39 th Annual Scientific Meeting, New York, USA
1999	Honorary Member of the Columbian Neurological Association
2001 - 2003	President of the International Headache Society
2002	The Migraine Trust Lecture. London, UK
2003 - Present	President Dutch Headache Society
2004 - Present	Fellow American Neurological Association (FANA)
2004	VICI "Innovational Research Personal Incentive Schema" Award of The Netherlands Organisation for Scientific Research (NWO). (+ Research grant of €1,500,000)
2005	Honorary Member of the Italian Headache Society
2005	Winkler Award for Excellence in Neurological Research of the Dutch Neurological Association. This Scientific Achievement Prize is awarded once every 5 years.
2006	Headache Research at LUMC was rated as “Outstanding and of World Class” by an International Site Visit Review Committee that assessed the Research at LUMC
2006	Honorary Member of the International Headache Society (IHS).
2006	European Headache Federation (EHF) Lecture (Valencia).
2008	Thomson Essential Science Indicators for papers published between 1997 – 2007 on the topic of “Migraine and Other Vascular Headaches”: <ul style="list-style-type: none"> - Top three highest cited researchers; - Lead Author of the highest cited papers in the periods 1997 - 2007 and 2005 - 2007. - Special personal report and interview
2008	Top Advances in the Field of Headache Lecture. 50 th Annual Scientific Meeting of the American Headache Society (AHS), Boston, USA
2009	The International Headache Society (IHS) Special Lecture. 14 th Congress of the IHS, Philadelphia, USA
2009	Seymour Diamond Lectureship Award of the National Headache Foundation. Scottsdale, Arizona, USA.
2009	The SPINOZA Premium of The Netherlands Organisation for Scientific Research (NWO) for life time scientific achievements, the highest scientific award in the Netherlands. In addition to the award, the winner receives an unrestricted research grant of €2,500,000.
2010	Team leader of the “Paroxysmal Cerebral Disorder Team” that won the “general audience prize” (Publieksprijs) of the “annual competition for best communication of science to the general Dutch public” (Academische Jaarprijs) with “Kies de aanval” http://www.lumc.nl/con/7021
2011	The triennial Hartmann Muller Prize for Biomedical Research from the University & ETH (Eidgenossische Technische Hochschule – Swiss Federal Institute of Technology) of Zurich, Switzerland (€25,000)
2011	Ranked 8 th world-wide in an analysis of most cited researchers in the overall field of pain covering publications between 1998 and 2009.
2012	Headache Research at LUMC was rated as “Outstanding and of World Class” by an International Site Visit Review Committee that assessed Research at LUMC
2015	Personal profile highlighted in Lancet Neurology 2015; 14: 34
2015	Fellow Royal College of Physicians, London, England (FRCP)
2016	Honorary member of the Danish Headache Society
2018	Headache Research at LUMC was rated as “Outstanding and of World Class” by an International Site Visit Review Committee that assessed Research at LUMC

Media coverage

See our website www.lumc.nl/hoofdpijn for an extensive review of media coverage of headache care, science, and research at LUMC in newspapers, magazines and journals, and on radio, television and websites.

Promotor (supervisor) of Ph.D. Students & Thesis

- 2003 **S. Overeem** (*Cum Laude*): Narcolepsy, from clinical entity to hypocretin deficiency
Current Position: Director Sleep Research Kempenhaege & Professor, University of Eindhoven, NL
- 2003 **S. Lesnik Oberstein**: Concerning CADASIL: From Notch3 mutation to stroke, dementia and migraine
Current Position: Clinical Geneticist & Associate Professor LUMC, Leiden, NL
- 2004 **J. A. van Vliet**: Trigeminal Autonomic Cephalgia with Focus on Cluster Headache
Current Position: Neurologist, Slingeland Hospital Apeldoorn, NL
- 2004 **E.E. Kors**: Familial Hemiplegic Migraine: the spectrum of CACNA1A & ATP1A2 mutations
- 2005 **H. Harno** (Finish; University of Helsinki, Finland): Migraine and episodic ataxia type 2; a clinical, genetic, neuro-otologic, and magnetospectroscopic study
Current Position: Neurologist, University Hospital Helsinki, Finland.
- 2006 **R. van den Boom**: Magnetic Resonance Imaging characteristics of CADASIL
Current Position: Radiologist, LUMC, Leiden, NL
- 2007 **S. Kaja** (German): Synaptic effects of mutations in neuronal Ca_v2.1 calcium channels
Current Position: Neurobiologist & Assistant Professor of Ophthalmology, University of Missouri, Kansas City, USA.
- 2007 **R.C.G van de Ven**: Transgenic Mouse Models of Migraine
Current Position: MD Student
- 2008 **N.J. Wiendels**: Chronic frequent headache in the general population
Current Position: Neurologist, Anthonius Hospital, Utrecht, NL.
- 2008 **K. Vanmolkot** (Belgian): Genetics of Migraine
Current Position: Staff Member Medical Affairs CCMO
- 2008 **G.G. Schoonman**: Trigger factors and mechanisms in migraine
Current Position: Neurologist, St. Elisabeth Hospital, Tilburg, NL
- 2010 **M.C. Kruit** (*Cum Laude*): Migraine and Brain lesions
Current Position: Radiologist/Neuroradiologist & Assistant Professor, LUMC, Leiden, NL
- 2011 **B. de Vries**: “The evolving genetic and pathophysiological spectrum of migraine”
Current Position: Molecular Geneticist, LUMC, Leiden, NL
- 2011 **M. Liem**: “Disease progression and high field MRI in CADASIL”
Current Position: Radiologist
- 2014 **A. Smelt**: Treatment of migraine – from clinical trial to general practice.
Current Position: General Practitioner in Leiden
- 2014 **F. Dekker**: Patients’ preference in migraine
Current Position: General Practitioner in IJpendam
- 2014 **A. Stam**: Genetics of migraine and related syndromes
Current position: Neurologist
- 2015 **C. Weller**: Genetics of primary headaches and comorbid disorders
Current Position: Transfusion Physician LUMC
- 2016 **R. Shyti** (Rumanian): Modulating factors for and consequences of cortical spreading depression
Current position: PostDoc European Institute of Oncology, University of Mila, Italy
- 2016 **C. Ayata** (American/Turkish): Spreading depolarizations: the missing link between migraine and stroke
Current Position: Associate Professor, Harvard Medical School
- 2017 **E Eising**: Exploring genes and pathways involved in migraine
Current position: PostDoc Max Planck Institute Psycholinguistics Nijmegen
- 2017 **R Zielman**: Biochemical profiling of the brain and cerebrospinal fluid in migraine syndromes
Current Position: Medical Liaison, GSK
- 2017 **MR Keezer**: The Comorbidities of Epilepsy
Current Position: Assistant Professor of Neurology. University of Montreal
- 2018 **MA Louter**: The migraine triad – chronification, depression and medication overuse
Current Position: Psychiatrist
- 2018 **H. Koppen**: Migraine, the heart and the brain
Current Position: Neurologist, Leyenburg Hospital, The Hague

I. Palm-Meinders: Migraine and brain changes

Current position: Physician

D. Haane: Cluster Headache and Oxygen

Current position: Neurologist UMC Maastricht & Overplet Belgium

N. Pelzer: Monogenic models of migraine

Current position: Neurology Redident LUMC

Co-Promotor (co-supervisor/advisor) of Ph.D. Students & Thesis

- 1996 **W.H. Visser:** "5-HT₁ Receptor Agonists in the Treatment of Migraine"
Current Position: Director & Senior Medical Consultant, Merck, Philadelphia, USA
- 1997 **C. Zwetsloot:** "Transcranial Doppler and Migraine: clinical and experimental aspects"
Current Position: Neurologist, Waterland Ziekenhuis, Purmerend, NL
- 1997 **R.A. Ophoff (cum laude):** "The Molecular Basis of Familial Hemiplegic Migraine"
Current Position: Professor of Genetics, University Medical Centre Utrecht & University of California at Los Angeles, Los Angeles, USA
- 1998 **G.M. Terwindt:** "Clinical Genetics of Migraine"
Current Position: Neurologist & Associate Professor, LUMC, Leiden, NL
- 1999 **A. Maassen van den Brink:** "Coronary side effects of antimigraine drugs"
Current Position: Pharmacologist & Associate Professor, Erasmus University Medical Centre, Rotterdam, NL
- 2000 **K.I. Roon:** "New 5-HT₁ agonists in migraine"
Current Position: Neurologist, Reinier de Graaf Hospital, Delft, NL

Ph.D. Promotion Evaluation Committee Member

- 1996 E.M. van Gelderen (Erasmus University, Rotterdam): "Vascular effects of nitric oxide - the relation to migraine"
- 1997 W. v.d. Kamp (Leiden University): "Magnetical cortical stimulation and excitability of the human motor cortex"
- 1999 P. de Vries (Erasmus University, Rotterdam): "5-HT receptors mediating carotid systemic haemodynamic effects: the relation to acute antimigraine therapy".
- 2002 H. Gijsman (Leiden University): "Pharmacological aspects of challenge testst of the serotonergic system of the brain"
- 2002 R.W.M. van den Broek (Erasmus University, Rotterdam): "Vascular effects of antimigraine drugs: pharmacology of human in vitro models in migraine"
- 2003 H. van der Kuy (Leiden University): "Studies on intranasal drug delivery on migraine"
- 2003 H. Rahimtoola (Utrecht University): "Transitions in migraine treatment: barriers and opportunities"
- 2003 D.L. Stronks (Erasmus University, Rotterdam): "Stress and daily functioning in migraine"
- 2003 K. Kapoor (Erasmus University Rotterdam): "Novel potential antimigraine compounds: carotid and systemic haemodynamic effects in a porcine model of migraine"
- 2005 B.P.C. van de Warrenburg (Radboud University, Nijmegen): "Autosomal dominant cerebellar ataxias. Clinical and genetic studies in Dutch patients"
- 2006 J.-P. van der Post (Leiden University): "Biomarkers in early phase development of central nervous system drugs: a conceptual framework"
- 2006 S. Gupta (Erasmus University, Rotterdam): "Vascular pharmacology of migraine and preeclampsia: problems of the fair sex"
- 2006 S. Mehrotra (Erasmus University, Rotterdam): "Characterization of vascular 5-hydroxytryptamine, adrenergic and CGRP receptors in relation to migraine"
- 2007 F Vanmolkot (University of Leuven, Belgium): "Vascular studies in migraine and anti-migraine drug development".
- 2008 R.D. Thijs (Leiden University): "Syncope an integrative physiological approach".
- 2009 M. Koek (Leiden University): "Gas chromatography mass spectrometry: key technology in metabolomics"
- 2010 B. Todorov (Leiden University): Diseases of the Nervous System associated with calcium channelopathies
- 2010 M. van Es (Utrecht University) (*Cum Laude*): "Unravelling the genetics of familial and sporadic Amyotrophic Lateral Sclerosis"

- 2010 J. Bruijn (Erasmus University, Rotterdam): “Quality of life and psychological functioning in observational and intervention studies in Childhood Migraine”
- 2010 L. Ligthart (VU University, Amsterdam): “The Genetics and Comorbidity of Migraine”
- 2011 K.Y. Chan (Erasmus University, Rotterdam): “Neurovascular pharmacology of prospective antimigraine drugs”
- 2012 M. Vermeer (University Medical Center Nijmegen): “Clinical and genetic characterisation of Autosomal Recessive Cerebellar Ataxias”
- 2014 M. Swartjes: Treatment of neuropathic pain with Ketamine and ARA 290 – Overlapping pathways.

Teaching experience

- Neurology Interns and Residents (supervisor & coordinator)
- Teaching Courses Medical, Biomedical, Pharmacology, Biopharmacy, and Biology students
- Pre- and Post-Graduate Courses and Workshops (organiser and teacher)
- M.D. & Ph.D. students (supervisor; see above)
- Pre-University College Students

Professional Activities & Administrative Functions

- 1986 - 1999 Coordinator Neurology Rotating Internship Program, LUMC
- 1988 - 1999 International Headache Society (IHS): Treasurer
- 1999 - 2001 International Headache Society (IHS): Vice-President
- 1993 - 2003 Dutch Headache Society (DHS): Vice-President
- 1995 - 1998 The Serotonin Club: European Councillor
- 1998 - 2001 The Serotonin Club: Vice President
- 1995 - 1999 Medical School Study Program Committee, LUMC
- 1998 - Present Board of Directors Pharma BV, Erasmus University Rotterdam: Vice-President
- 2001 - 2003 International Headache Society (IHS): President
- 2003 - Present Dutch Headache Society (DHS): President
- 2007 - Present Leiden Centre for Translational Neuroscience (LCTN): Chair
- 2016 - Present Leiden University Priority Research Profile “Brain function and dysfunction” (Executive Committee)

Scientific Committees, Review Boards and Panels

- 1986 - 1998 International Headache Society (IHS): Secretary Scientific Committee
- 1998 - 2001 International Headache Society (IHS): Chairman Scientific Committee
- 1989 - Present Scientific consultant to various pharmaceutical companies
- 1990 - 1999 Pain Section, Dutch Neurology Association: Chairman
- 1990 - Present Migraine Research Group, World Federation of Neurology
- 1991 - Present International Headache Society (IHS): Drug Trial Committee
- 1992 - 1995 International Review Committee, Young Investigators Migraine Prize, France
- 1992 - 1994 The Netherlands Organisation for Scientific Research (NWO): Research Groups for Neuropharmacology and Peripheral Circulation
- 1992 - Present The Netherlands Organisation for Scientific Research (NWO), Scientific Review Committees for Neuroscience and Pain
- 1992 - Present Permanent Scientific Committee, Neurology Department, LUMC
- 1995 National Advisory Board to Dutch Health Minister: "National Strategy for Pain Research & Treatment"
- 1995 - 1997 The Netherlands Organisation for Scientific Research (NWO): Vice-chairman Research Group for Paroxysmal Neurological Disorders
- 1995 - Present European Headache Federation (EHF): Research Committee
- 1995 - Present Dutch Neurology Association: Consensus Committee on the Diagnosis & Treatment of Headache Disorders
- 1996 - 2001 Dutch Heart Foundation: Evaluation Committee Clinical Scientific Research
- 1997 The Wellcome Trust: scientific reviewer
- 1998 - 2001 The Netherlands Organisation for Scientific Research (NWO): Board Neuroscience Section
- 2000 - Present International Headache Masters Programme: Steering Committee
- 2001 - 2012 Dutch Brain Foundation: Scientific Advisory Board

2003 - Present	New Zealand Neurological Research Council
2003 - Present	LUMC Committee for Good Research Practice
2003 - Present	LUMC Commission for Code Conduct Integrity in Research and Education
2005 - Present	Rudolf Magnus Research Award Review Committee; University Medical Centre Utrecht
2006 - Present	Strategic Research Cluster Review Panel of the Science Foundation Ireland SFI
2008 - Present	LUMC Permanent Science Committee
2008 - Present	LUMC Fellowship Review Committees for the Gisela Thier, LUMC, Vidi & Vici Fellowships
2008 - Present	Committee for Translational Research of the Netherlands Organisation of Scientific Research
2009 - Present	International Headache Society (IHS): Chairman Scientific Committee
2009 - Present	International Headache Society (IHS) Research Fellowship Committee (Chair)
2013 - Present	Scientific Advisory Board Dutch ALS (Amyotrophic Lateral Sclerosis) Foundation
2014	Scientific Evaluation & Site Visit Committee of COEUR (Cardiovascular Research School Erasmus University Rotterdam)
2016 – 2018	Scientific Program Committee for IASP's 17th World Congress on Pain in Boston, Massachusetts USA September 12-16, 2018

Professional Memberships

1981 - Present	Dutch Neurology Association
1986 - Present	International Headache Society (IHS)
1990 - 2003	Serotonin Club
1991 - Present	Dutch-Belgian Association for Experimental and Clinical Neurochemistry
1991 - Present	Anglo-Dutch Migraine Association
1992 - Present	International Association Study of Pain
1992 - Present	Dutch Association for the Study of Pain
1992 - 2005	Amsterdamsche Neurologen Vereeniging
1993 - Present	Dutch Headache Society (& Founding Member)
2000 - Present	American Headache Society
2004 - Present	American Neurological Association: Elected Fellow (FANA)
2015 - Present	Royal College of Physicians England: Elected Fellow (FRCP)

Current Journal Affiliations:

Editorial Boards: Associate Editor of Cephalalgia, Eur J Neurol, Headache Currents, and Faculty of 1000 Medicine, and Senior Associate Editor of Headache

Reviewer: New Eng J Med; Lancet; JAMA; Lancet Neurology; Nature Genetics; Nature Reviews; Annals Neurol; Brain; Trends Pharmacol Sci; Neurology; J Neurol Neurosurg Psy; Stroke; Neuropharmacology; J Neurol Sci; Eur J Pharmacology; J Clin Epidemiology; Clinical Sciences; Headache; J Neurol; Acta Neurol Scan; NTVG; Plos One; Faculty of 1000 Medicine reports; J Neurosci; Pain; Science Translational Medicine

Organisation and Scientific Committees of Scientific Congresses

1987	Boerhaave Postgraduate Course "Migraine and Other Headaches", Leiden, NL: chairman.
1991	5 th Congress of the International Headache Society. Washington, USA: scientific committee
1992	Boerhaave Workshop: "Clinical Research in Neurology", Bosch en Duin, NL: co-organiser
1993	6 th Congress of the International Headache Society, Paris, France: scientific committee
1993	Boerhaave Postgraduate Course: "Pain in Neurological Practice", Leiden, NL: chairman
1994	2 nd Congress European Headache Federation, Luik, Belgium: co-organizer
1994	Boerhaave Postgraduate Course: "Serotonin in Neurologic and Psychiatric Disorders", Leiden, NL: chairman
1995	Workshop: "Migraine Research - Towards the 3rd Millennium". Malaga, Spain: co-organiser
1995	7 th Congress of the International Headache Society, Toronto, Canada: scientific committee
1996	Workshop: "Methodology of Migraine Trials - Towards New Concepts", Rome, Italy: co-organiser
1996	Workshop: "Neuromethodology II"- Methodology of Clinical Research in Neurology, Zeist, NL: co-organizer
1997	Chairman Organising Committee and International Scientific Committee of the 8 th World Congress of the International Headache Society, Amsterdam, NL
1998	Boerhaave Postgraduate Course: Pain-therapies in Neurology, Leiden, NL: Co-organiser
1998	Fourth IUPHAR Satellite Meeting on Serotonin, Rotterdam, The Netherlands: Co-organiser

- 1999 9th World Congress of the International Headache Society, Barcelona, Spain: Chairman International Scientific Committee
- 2000 World Headache 2000, London, UK: Scientific Committee
- 2001 10th International Headache Research Seminar; Copenhagen, Denmark: Co-organiser
- 2001 10th World Congress of the International Headache Society, New York, USA: International Scientific Committee
- 2002 Boerhaave Postgraduate Course: Artsen, farmaceutische industrie en onderzoekers: een gespannen driehoeksrelatie, Leiden, NL: Chairman Organising Committee
- 2002 14th Migraine Trust International Symposium, London, UK: International Scientific Advisory Committee.
- 2004 7th European Headache Federation Congress. Rotterdam, NL: Scientific Committee
- 2004 15th Migraine Trust International Symposium London, UK: International Scientific Advisory Committee
- 2005 12th World Congress of the International Headache Society, Kyoto, Japan: International Scientific Committee
- 2006 European Federation of Neurological Societies. Teaching Course Committee
- 2006 16th Migraine Trust International Symposium London, UK: International Scientific Advisory Committee
- 2007 European Federation of Neurological Societies. Teaching Course Committee
- 2008 European Federation of Neurological Societies. Madrid, Spain. 23 – 26 August 2008: Teaching Course Committee
- 2008 Opening Symposium Leiden Centre for Translational Neuroscience (LCTN)
- 2008 European Headache and Migraine Trust International Congress 2008, London, United Kingdom, 4-7 September 2008: International Scientific Advisory Committee
- 2010 2nd European Headache and Migraine Trust, Nice, France. 28-31 October 2010: International Scientific Advisory Committee
- 2011 15th Congress of the International Headache Society, Berlin, Germany. 23-26 June 2011: Chair of the Scientific Committee.
- 2013 Combined 16th Congress of the International Headache Society (IHS) and 30st Congress of the American Headache Society (AHS), Boston, USA. 27 – 30 June, 2013. Chair of the Scientific Committee
- 2014

Obtained Research Grants (selected; years are inclusive)

- 1986 - present: Grants from various pharmaceutical industries for research projects on pharmacological, genetic and therapeutical aspects of migraine.
- 1992 - 1996 Clinical Research Programme (KWO) Netherlands Organisation for Scientific Research (NWO), together with Prof. R.R. Frants, Human Genetics Department, LUMC: "Genetics of Familial Hemiplegic Migraine".
- 1995 - 1998 Dutch Heart Foundation (together with Prof. P.R. Saxena, Pharmacology Department, Rotterdam Erasmus University): Coronary Vasospasms by Antimigraine Drugs
- 1996 - 1999 The Migraine Trust, London, UK (together with Prof. R.R. Frants, Human Genetics Department, LUMC and Dr. P.J. Goadsby, Institute of Neurology, The National Hospital for Neurology and Neurosurgery, Queen Square, London, UK): "Genetics of Migraine"
- 1997 - 1998 The Dutch Brain Foundation (HersenStichting; together with Prof. R.R. Frants, Human Genetics Department, LUMC): "Calcium Channel Defect in Migraine - Transgenic Mice Models for the Development of Prophylactic Treatment".
- 1997 - 2002 Research Programme Grant ("programma subsidie") Netherlands Organisation for Scientific Research (NWO), together with Prof. R.R. Frants, Human Genetics Department, LUMC): Genetics of Migraine - Implications for Pathophysiology and Prophylactic Therapy
- 1997 - 2001 BIOMED-2, European Commission, Brussels, Belgium (together with Prof. R.R. Frants, Human Genetics Depart., LUMC and Prof C. Larsson, Molecular Medicine Depart., Karolinska Hospital, Stockholm, Sweden): Migraine and Episodic Ataxia
- 1998 - 2002 Dutch Heart Foundation, together with Dr. M. Van Buchem, Neuroradiology Department LUMC and Dr. L. Launer, NIH, Bethesda: Migraine as a risk factor for (sub-)clinical strokes
- 1998 - 2003 Asclepiade Foundation, Geneva: Clinical spectrum and pathophysiology of cluster headache.
- 1999 - 2002 Gisela Thierfonds (together with Prof. Dr. R.R. Frants, Human Genetics Department, LUMC) for R.A. Ophoff: Migraine genes.
- 1998 - 2004 Netherlands Organisation for Scientific Research (NWO-AGIKO), together with Dr. J. Haan

- and Prof. M. Breuning, Clinical Genetics Department, LUMC: Genetic analysis of CADASIL
- 1999 - 2003 Netherlands Organisation for Scientific Research NWO-Pain Programme, together with Dr. H. Petri, Department of General Practice, LUMC: "Chronic daily headache and abuse"
- 2000 - 2001 Japanese Governmental Medical Talent Grant, together with Prof. Dr. RR Frants for Dr Hisanori Kowa: Genetics of Migraine
- 2001 - 2004 European Community RTN (Research training Network), together with Prof. Dr. RR Frants and Prof. D. Kullmann: "Neuronal Ca²⁺ channels in human disease"
- 2001 – 2002: NIH (USA): Genome Wide Screening Programme, together with Prof Dr. RR Frants and Dr. L. Sandkuijl: Genome scanning in Mendelian families with Migraine and Idiopathic Epilepsy Syndrome (2 grants of €300,000 each)
- 2001 - 2006 Netherlands Organisation for Scientific Research (NWO): "Attack susceptibility and Triggers in migraine" (€600,000)
- 2002 - 2004 Leiden University Medical Centre, together with Dr. A. Knuistingh Neven, Department of General Practice, LUMC: "Chronic daily headache and overuse of headache drugs – a population-based study" (€300,000)
- 2003 – 2007 EU FP6 Lifesciences, Genomics & Biotechnology for Health: EUROHEAD: migraine genes and neurobiological pathways (€3,500,000 + matching; PI - 8 Institutions from 8 countries).
- 2004 – 2006 Dutch Brain Foundation (Hersenstichting). Research Fellowship for Dr. Nicole Schmitz, together with Prof M. van Buchem: Causes and consequences of brain damage in migraineurs (€300,000).
- 2004 – 2008 NIH (USA), together with Prof R. Frants, Dr. A van den Maagdenberg, and Prof. A. Palotie (UCLA): Migraine assignment and predisposing genes.
- 2004 – 2010 VICI "innovational research personal incentive schema" grant from The Netherlands Organisation for Scientific Research (NWO): Molecular, biochemical and neurophysiological brain analysis in migraine. From patients to transgenic mouse models, and back (€1.250,000)
- 2007 – 2009 Dutch Heart Foundation, together with Prof. M. Van Buchem, Neuroradiology Department, LUMC: Brain damage in migraine: progression, relevance and etiology. The Dutch Population-Based CAMERA MRI Study II (€300,000)
- 2007 – 2010 Doelmatigheidsfonds (Medical Effectiveness Fund) of The Netherlands Organisation for Health Research and Development (ZonMW), together with Dr. F. Dekker, Department of Public Health, LUMC: The LIMIT-study "Leiden Improvement of MIgraine Therapy in General Practice" (€300,000)
- 2007 – 2010 Clinical Research Fellowship for Dr. GMT Terwindt. The Netherlands Organisation for Scientific Research (NWO): Towards shared genetic risk factors for migraine and depression (€150,000)
- 2007 – 2012 MD-Medical Research Trainee Grant (AGIKO) for Dr. A Stam from The Netherlands Organisation for Health Research and Development (ZonMW): TREX1 in migraine and other neurovascular disorders (€150,000)
- 2008 – 2013 NIH (USA): Progression of Brain Lesions in Migraine. The Dutch Population-Based CAMERA MRI Follow-Up Study (€1 million; PI)
- 2009 The Spinoza Premium of The Netherlands Organisation for Scientific Research (NWO) for life time scientific achievements, the highest scientific award in the Netherlands. In addition to the award, the winner receives an unrestricted research grant of €2,500,000.-.
- 2012 - 2015 LUMC Research Fellowship for Dr. E. Tolner. Mechanisms of cortical spreading depression: revealing the neuronal networks behind migraine pathophysiology (€400,000)
- 2013 - 2017 EU FP7 Health 2013 Innovation: EUROHEADPAIN: "Mechanisms and Treatment of Migraine and its Chronification" (€6 million + matching; PI - 12 Institutions from 9 countries)
- 2014 - 2018 Dutch National Consortium to Promote Cardiovascular Healthy Aging in Women (CREW) Dutch Heart Foundation (€4 million; PI's: Profs. Boersma & Fauser)
- 2016 – 2020 Ministry of Health (VWS): ICON: Occipital Nerve Stimulation for Medically Intractable Chronic Cluster Headache (€6 million; PI – 8 centres).

Patents

US patent 6,825,332 B1 for "a gene related to migraine in man" (M.D. Ferrari, G.M. Terwindt, R.R. Frants and R.A. Ophoff)

BIBLIOGRAPHY

Professor Michel D. Ferrari, M.D., Ph.D.

(Updated 15th May, 2018)

- A) Peer Reviewed Original Publications Listed in Web of Science: n = 340
- B) Peer Reviewed Review Articles Listed in Web of Science: n = 113
- C) Books & Chapters in Books: n = 119
- D) Invited Lectures & Chairs
 - International
 - National
- E) Congress Abstracts and Proceedings are not listed

Research Mission:

- (i) Unravelling the (molecular) neurobiological mechanisms for the triggering, initiation and chronification of attacks of migraine and related paroxysmal cerebral disorders (PaCD)
- (ii) Identification and validation of acute and preventative treatment targets for migraine and related PaCD
- (iii) Assessing the effects of migraine on the brain

Research Motto: "Translational research through multidisciplinary collaboration"

A) ORIGINAL PUBLICATIONS

- 1) Krieken van JHJM, Te Velde J, Hermans J, Cornelisse CJ, Welvaart C, Ferrari MD. The amount of white pulp in the spleen; a morphometrical study done in methacrylate-embedded splenectomy specimens. *Histopathology* 1983;7:767-782.
- 2) De Wolff FA, Vermey P, Ferrari MD, Buruma OJS, Breimer DD. Impairment of phenytoin parahydroxylation as a cause of severe intoxication. *The Drug Monitoring* 1983;5:213-215.
- 3) Ferrari MD, Buruma OJS, Van Laar-Ramaker M, Dijkmans BAC. A migrainous syndrome with pleocytosis. *Neurology* 1983;33:813.
- 4) Bruyn GW, Ferrari MD. Chorea and migraine: "Hemicrania choreatica" *Cephalalgia* 1984;4:119-24
- 5) Bruyn GW, Ferrari MD, De Beer FC. Migraine, Tolosa Hunt syndrome and pleocytosis. Correlation or coincidence? *Clin Neurol Neurosurg* 1984;86:33-41.
- 6) Ferrari MD, De Wolff FA, Vermey P, Veenema H, Buruma OJS. Hepatic cytochrome P450 malfunction and Parkinson's disease. *Lancet* 1986;i:324.
- 7) Meyboom RHB, Ferrari MD, Dieleman BP. Parkinsonism, tardive dyskinesia, akathisia and depression induced by flunarizine. *Lancet* 1986;ii:292.
- 8) Ferrari MD, Van Kempen GMJ, Odink J, Bruyn GW, Tapparelli C. Monoamine oxidase, phenosulphotransferase and serotonin metabolism in common and classic migraine and tension headache. *Cephalalgia* 1987;7,suppl.6:144-146.
- 9) Ferrari MD, Odink J, Bos KD, Malessy MJA, Bruyn GW. Plasma aminoacids in common and classic migraine and tension headache. *Cephalalgia* 1987;7,suppl.6:246-247.
- 10) Ferrari MD, Hilkens PHE, Kremer B, Polder TW. Intermittent pyramidal claudication as presenting and sole symptom in multiple sclerosis. *J Neurol Neurosurg Psych* 1988;51:147-148.
- 11) Ferrari MD, Haan J, Van Seters AP. Bromocriptine-induced trigeminal neuralgia attacks in a patient with a pituitary tumour. *Neurology* 1988;38:1482-1484.
- 12) Haan J, Ferrari MD, Brouwer OF. Acute confusional migraine. *Clin Neurol Neurosurg* 1988;90:275-278.
- 13) Vermey P, Ferrari MD, Buruma OJS, Veenema H, De Wolff FA. Inheritance of poor phenytoin parahydroxylation capacity in a Dutch family. *Clin Pharmacol Ther* 1988;44:588-93.
- 14) Ferrari MD. Relief of common migraine by exercise. *J Neurol Neurosurg Psych* 1988;51:1011-12.
- 15) Odink J, Ferrari MD, Bos KD. Plasma aminoacids in common and classic migraine and tension headache. *Neurochemistry Int* 1988;13,suppl.1:155-56.
- 16) Ferrari MD, Odink J, Tapparelli C, Van Kempen GMJ, Pennings EJM, Bruyn GW. Serotonin metabolism in migraine. *Neurology* 1989;39:1239-1242.
- 17) Ferrari MD, Odink J, Frölich M, Tapparelli C, Portielje JEA. Release of platelet Met-enkephalin, but not serotonin, in migraine. A platelet-response unique to migraine patients? *J Neurol Sci* 1989;93:51-60.

- 18) Saxena PR, Ferrari MD. 5HT₁-like receptor agonists and the pathophysiology of migraine. *Trends Pharmacol Sci* 1989;10,5:200-204.
- 19) Ferrari MD, Peeters EAJ, Haan J, Roos RAC, Vermey P, De Wolff FA, Buruma OJS. Cytochrome P450 and Parkinson's disease. Poor parahydroxylation of phenytoin. *J Neurol Sci* 1990;96:153-157.
- 20) Tas A, Odink J, Van de Greef J, Boogerd W, Ferrari MD, Peters ACB, Van Ekdom L. Characterization of virus infected cell-cultures by pyrolysis-direct chemical ionization mass spectrometry. *Biomed Environ Mass Spectrom* 1989;18:757-760.
- 21) Ferrari MD, Odink J, Frölich M, Portielje J, Bruyn GW. Methionine-Enkephalin in migraine and tension headache. Differences between classic migraine, common migraine and tension headache, and changes during attacks. *Headache* 1990;30:160-164.
- 22) Ferrari MD, Odink J, Bos KD, Malessy MJA, Bruyn GW. Neuro-excitatory plasma aminoacids are elevated in migraine. *Neurology* 1990;40:1582-1586.
- 23) Ferrari MD, Wilkinson M, Hirt D, Lataste X. Efficacy of ICS 205-930, a novel 5-Hydroxytryptamine₃ (5HT₃) receptor antagonist, in the prevention of migraine attacks. A complex answer to a simple question. *Pain* 1991;45:283-291.
- 24) Zwetsloot CP, Caekebeke JFV, Jansen JC, Odink J, Ferrari MD. Blood Flow velocity changes in migraine attacks: a transcranial doppler study. *Cephalalgia* 1991;11:103-107.
- 25) Van Dijk JG, Ferrari MD, Peters ACB. Visual evoked responses in children with migraine. *Lancet* 1990;i;335:481-2.
- 26) Ferrari MD, for The subcutaneous sumatriptan international study group. Treatment of migraine attacks with sumatriptan. *New Eng J Med* 1991;325:316-321.
- 27) Ferrari MD, Mulder LJMM. Alleen ergotamine helpt nog maar. Klinische les. *Ned Tijds Geneesk* 1991;135;27:1209-1211.
- 28) Van Dijk JG, Dorrestein M, Haan J, Ferrari MD. No confirmation of visual evoked potential diagnostic test for migraine. *Lancet* 1991;i:517-518.
- 29) Van Hilten JJ, Ferrari MD, Van de Meer JWM, Gijsman HJ, Looij BJ Jr. Plasma Interleukin-1, tumor necrosis factor and hypothalamic-pituitary-adrenal axis responses during migraine attacks. *Cephalalgia* 1991;11:65-67.
- 30) Ferrari MD. Sumatriptan bij migraine en cluster headache. Commentaar. *Ned Tijds Geneesk* 1991;135:1573-1575.
- 31) Van Dijk JG, Dorrestein M, Haan J, Ferrari MD. Visual evoked potentials and background EEG activity in migraine. *Headache* 1991;31:392-395.
- 32) Zwetsloot CP, Caekebeke JFV, Odink J, Ferrari MD. Vascular reactivity during migraine attacks: a transcranial Doppler study. *Headache* 1991;135:593-596.
- 33) Caekebeke JFV, Ferrari MD, Zwetsloot CP, Jansen J, Saxena PR. The antimigraine drug sumatriptan increases blood flow velocity in large cerebral arteries during migraine attacks. *Neurology* 1992;42:1522-26
- 34) Visser WH, Ferrari MD, Bayliss EM, Ludlow S, Pilgrim AJ for the Subcutaneous Sumatriptan International Study Group. Treatment of migraine attacks with migraine attacks with subcutaneous sumatriptan: first placebo-controlled study. *Cephalalgia* 1992;12:308-314.
- 35) Saxena PR, Heiligers JPC, Villalón CM, Ferrari MD. Effects of tertatolol, a β-adrenoceptor antagonist with agonist affinity at 5-HT_{1A} receptors, in an animal model of migraine: comparison with propranolol and pindolol. *Eur J Pharmacol* 1992;220:79-86.
- 36) Zwetsloot CP, Caekebeke JFV, Jansen JC, Odink J, Ferrari MD. Blood flow velocities in the vertebrobasilar system during migraine attacks - a transcranial Doppler study. *Cephalalgia* 1992;12:29-32.
- 37) Tfelt-Hansen P, Ferrari MD, Olesen J. Association between sumatriptan and stroke. *Lancet* 1993;342:303.
- 38) Lammers GJ, Arends J, Declerck AC, Ferrari MD, Schouwink G, Troost J. Gammahydroxy-butyrate and narcolepsy: a double-blind placebo-controlled study. *Sleep* 1993;16:216-220.
- 39) Dawson I, van Bockel JH, Ferrari MD, v.d. Meer FJM, Brand R, Terpstra JL. Ischemic and hemorrhagic stroke in patients on oral anticoagulants after reconstruction for chronic limb lower ischemia. *Stroke* 1993;24:1655-1663.
- 40) Zwetsloot CP, Caekebeke JFV, Ferrari MD. Lack of asymmetry of middle cerebral artery blood flow velocity in unilateral migraine. *Stroke* 1993;24:1335-1338.
- 41) Verhoeff NPLG, Visser WH, Ferrari MD, Van Royen EA. Dopamine D2-receptor imaging with ¹²³I-Iodobenzamide SPECT in migraine patients abusing ergotamine: does ergotamine cross blood brain barrier? *Cephalalgia* 1993;13:325-329.
- 42) Caekebeke JFV, Ferrari MD. Transient resolution of headache in giant cell temporal arteritis after

- sumatriptan. *Cephalalgia* 1993;13:426.
- 43) Ophoff RA, van Eijk R, Sandkuyl LA, Terwindt GM, Grubben CPM, Haan J, Lindhout D, Ferrari MD, Frants RR. Genetic heterogeneity of familial hemiplegic migraine. *Genomics* 1994;22:21-26.
 - 44) van der Kamp W, Zwinderman AH, Roos RAC, Ferrari MD, Kamphuisen HAC, van Dijk JG. Magnetic evoked potentials (MEPs) are larger in left-handed subjects. *Muscle Nerve* 1994;17:118-119.
 - 45) Smeets MC, Vernooy CB, Souverijn JHM, Ferrari MD. Intracellular and plasma magnesium in familial hemiplegic migraine and migraine with and without aura. *Cephalalgia* 1994;14:29-32.
 - 46) Haan J, Terwindt GM, Bos PLJM, Ophoff RA, Frants RR, Ferrari MD for the Dutch Migraine Genetics Research Group. Familial hemiplegic migraine in the Netherlands. *Clin Neurol Neurosurg* 1994;96:244-249.
 - 47) Lipton RB, Amatriek JC, Ferrari MD, Gross M. Migraine. Identifying and removing barriers to care. *Neurology* 1994;44(suppl 4):S63-S68.
 - 48) Ferrari MD, James MH, Bates D, Hassani H, Ashford E, Andersen BA, Nappi G for the International Oral Sumatriptan Study Group. Oral sumatriptan: effect of a second dose, incidence and treatment of headache recurrences. *Cephalalgia* 1994;14:330-338.
 - 49) Peeters EAJ, Bloem BR, Kuiper MA, Vermeij P, De Wolff FA, Wolters EC, Roos RAC, Ferrari MD. Phenytoin parahydroxylation is not impaired in patients with young-onset Parkinson's disease. *Clin Neurol Neurosurg* 1994;96:296-299.
 - 50) Ferrari MD, Haan J, Blokland JAK, Arndt JW, Minnee P, Zwinderman AH, Pauwels EKJ, Saxena PR. Cerebral blood flow during migraine attacks without aura and effect of sumatriptan. *Arch Neurol* 1995;52:135-139.
 - 51) Gijssman HJ, Ferrari MD. Dihydroergotamine nasal spray. *Neurology* 1995;45:397-98.
 - 52) Haan J, Terwindt GM, Ophoff RA, Bos PLJM, Frants RR, Ferrari MD. Is familial hemiplegic migraine a hereditary form of basilar migraine? *Cephalalgia* 1995;15:477-81.
 - 53) Rapoport A, Visser WH, Cutler NR, Alderton CJ, Paulsgrove LA, Davis RL, Ferrari MD. Oral sumatriptan in the prevention of headache recurrences after subcutaneous sumatriptan. *Neurology* 1995;45:1505-09.
 - 54) May A, Ophoff RA, Terwindt GM, Urban C, van Eijk R, Haan J, Diener HC, Lindhout D, Frants RR, Sandkuyl LA, Ferrari MD. Familial hemiplegic migraine locus on 19p13 is involved in the common forms of migraine with and without aura. *Human Genetics* 1995;96:604-8.
 - 55) Visser WH, Burggraaf J, Muller LM, Schoemaker R, Fowler PA, Cohen AF, Ferrari MD. Pharmacokinetic differences between migraine patients with and without headache relief and between patients with and without headache recurrence after sumatriptan. *Br Clin Pharmacol* 1995;39:538P-539P.
 - 56) Wielaard R, Bornebroek M, Ophoff RA, Winter-Warnars HAO, Scheltens Ph, Frants RR, Ferrari MD, Haan J. A four-generation Dutch family with cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL), linked to chromosome 19p13. *Clin Neurol Neurosurg* 1995;97:307-13.
 - 57) Visser WH, Klein KB, Cox RC, Jones D, Ferrari MD. 311C90, a new central and peripherally acting 5-HT_{1D} receptor agonist in the acute oral treatment of migraine: a double-blind, placebo controlled dose-range finding study. *Neurology* 1996;46:1-5.
 - 58) Maassen Van Den Brink A, Bax WA, Ferrari MD, Zijlstra FJ, Bos E, Saxena PR. Augmented contraction of the human isolated coronary artery by sumatriptan: a possible role for endogenous thromboxane. *Br J Pharmacol* 1996, 119:855-62.
 - 59) Visser WH, De Vriend RHM, Jaspers NMWH, Ferrari MD. Sumatriptan in clinical practice: a 2-year review of 453 migraine patients. *Neurology* 1996;47:46-51.
 - 60) Ophoff RA, Terwindt GM, Vergouwe MN, Van Eijk R, Oefner PJ, Hoffman SMG, Lamerdin JE, Mohrenweiser HW, Bulman DE, Ferrari M, Haan J, Lindhout D, Van Ommen GJB, Hofker MH, Ferrari MD, Frants RR. Familial Hemiplegic Migraine and Episodic Ataxia type-2 are caused by mutations in the Ca⁺⁺ channel gene CACNL1A4. *Cell* 1996;87:543-552.
 - 61) Visser WH, Burggraaf J, Muller LM, Schoemaker RC, Fowler PA, Cohen AF, Ferrari MD. Clinical trials and therapeutics. Pharmacokinetic and pharmacodynamic profiles of sumatriptan in migraine patients with headache recurrence or no response. *Clin Pharmacol Ther* 1996;60:452-460.
 - 62) May A, Gijssman HJ, Wallnöfer A, Jones R, Diener HC, Ferrari MD. Endothelin antagonist bosentan blocks neurogenic inflammation, but is not effective in aborting migraine attacks. *Pain* 1996;67:375-378.
 - 63) Van Der Kamp W, Maassen Van Den Brink A, Ferrari MD, Van Dijk JG. Interictal cortical hyperexcitability in migraine patients demonstrated with transcranial magnetic stimulation. *J Neurol Sci* 1996;139:106-110.

- 64) Visser WH, De Vriend RHM, Jaspers NMWH, Ferrari MD. Sumatriptan non-responders: a survey in 366 migraine patients. *Headache* 1996;36:471-475.
- 65) Visser WH, De Vriend RHM, Jaspers NMWH, Ferrari MD. Risk factors for headache recurrence after sumatriptan: a study in 366 migraine patients. *Cephalalgia* 1996;16:264-269.
- 66) Terwindt GM, Ophoff RA, Haan J, Frants RR, Ferrari MD. Familial hemiplegic migraine: a clinical comparison of families linked and unlinked to chromosome 19. *Cephalalgia* 1996;16:153-155.
- 67) Visser WH, Klein KB, Cox RC, Jones D, Ferrari MD. 311C90, A new central and peripherally acting 5-HT_{1D} receptor agonist in the acute oral treatment of migraine: a double blind, placebo-controlled, dose-range finding study. *Neurology* 1996;46:522-526.
- 68) Visser WH, Terwindt GM, Reines SA, Jiang K, Lines CR, Ferrari MD. Rizatriptan vs sumatriptan in the acute treatment of migraine. *Arch Neurol* 1996;53:1132-1140.
- 69) Visser WH, Jaspers NMWH, De Vriend RHM, Ferrari MD. Chest symptoms after sumatriptan: a two-year clinical practice review in 735 consecutive migraine patients. *Cephalalgia*. 1996;16:554-559.
- 70) Van Der Kamp W, Zwinderman AH, Ferrari MD, Van Dijk JG. Cortical excitability and response variability of transcranial magnetic stimulation. *J Clin Neurophysiology* 1996;13(2):164-71.
- 71) Ophoff RA, Terwindt GM, Vergouwe MN, Van Eijk R, Mohrenweiser HW, Litt M, Hofker MH, Haan J, Ferrari MD, Frants R, for the Dutch Migraine genetic Research Group. A 3-Mb region for the Familial Migraine Locus on 19p13.1-p13.2: exclusion of PRKCSH as a candidate gene. *Eur J Hum Genet* 1996;4:321-8.
- 72) Terwindt GM, Ophoff RA, Lindhout D, Haan J, Halley DJJ, Sandkuyl LA, Brouwer OF, Frants RR, Ferrari MD. Partial cosegregation of Familial Hemiplegic Migraine and a Benign Familial Infantile Epileptic Syndrome. *Epilepsia* 1997;38(8):915-21.
- 73) Van Der Kamp W, Maassen Van Den Brink A, Ferrari MD, Van Dijk JG. Interictal cortical excitability to magnetic stimulation in Familial Hemiplegic Migraine. *Neurology* 1997;48:1462-64.
- 74) Haan J, Kapelle LJ, De Ronde H, Ferrari MD, Bertina RM. The factor V Leiden mutation (R506Q) is not a major risk factor for migrainous cerebral infarction. *Cephalalgia* 1997;17:605-7.
- 75) Ophoff RA, Terwindt GM, Vergouwe MN, Frants RR, Ferrari MD, on behalf of the Dutch Migraine Genetics Research Group. Involvement of a Ca²⁺ channel gene in Familial Hemiplegic Migraine and migraine with and without aura. *Headache* 1997;37:479-85.
- 76) Gijsman H, Kramer MS, Sargent J, Tuchman M, Matzura-Wolfe D, Polis A, Teall J, Block G, Ferrari MD. Double-blind, placebo-controlled, dose-finding study of rizatriptan (MK-462) in the acute treatment of migraine. *Cephalalgia* 1997;17:647-51.
- 77) Terwindt GM, Haan J, Ophoff RA, Groenen SMA, Storimans CWJM, Lanser JBK, Roos RAC, Bleeker-Wagemans EM, Frants RR, Ferrari MD. Clinical and genetic analysis of a large Dutch family with autosomal dominant vascular retinopathy, migraine and Raynaud's phenomenon. *Brain* 1998, 121,303-16.
- 78) Terwindt GM, Ophoff RA, Haan J, Vergouwe MN, van Eijk R, Frants RR, Ferrari MD, for the Dutch Migraine Genetics Research Group. Variable clinical expression of mutations in the P/Q-type calcium channel gene in familial hemiplegic migraine. *Neurology* 1998;50:1105-1110.
- 79) Maassen van den Brink A, Vergouwe MN, Ophoff RA, Saxena PR, Ferrari MD, Frants RR. 5-HT_{1B}-receptor polymorphism and clinical response to sumatriptan. *Headache* 1998, 38:288-91.
- 80) Haan J, Kapelle LJ, Ferrari MD, Bertina RM. The transition G to A at position 20210 in the 3'-untranslated region of the prothrombin gene is not associated with migrainous infarction. Letter to the Editor. *Cephalalgia* 1998;18:229-30.
- 81) Gijsman HJ, Van Gerven JMA, Tieleman MC, Schoemaker RC, Pieters MSM, Ferrari MD, Cohen AF, Van Kempen GMJ. Pharmacokinetic and pharmacodynamic profile of oral and intravenous meta-chlorophenylpiperazine in healthy volunteers. *J Clin Psychopharmacol* 1998;18:289-95.
- 82) Maassen VanDenBrink A, Vergouwe MN, Ophoff RA, Naylor SL, Dauwerse HG, Saxena PR, Ferrari MD, Frants RR. Chromosomal localization of the 5-HT_{1F} receptor gene: no evidence for involvement in response to sumatriptan in migraine patients. *Am J Medical Genetics* 1998;77:415-420.
- 83) Haan J, Schoonman GG, Terwindt GM, Ferrari MD, Bertina RM, Kapelle LJ, Haan J. Prothrombotic mutations and ischaemic stroke at a young age in two sisters. *J Neurol Neurosurg Psych* 1998;65:958-959.
- 84) Ferrari MD. Migraine. *Lancet* 1998;351:1043-1052.
- 85) Ferrari MD. How to assess and compare drugs in the management of migraine: success rates in terms of response and recurrence. *Cephalalgia* 1999;19 (suppl.23):2-8.
- 86) Roon KI, Soons PA, Uitendaal MP, de Beukelaar F, Ferrari MD. Pharmacokinetic profile of alniditan nasal spray during and outside migraine attacks. *Br J Clin Pharmacol* 1999;47:285-290.
- 87) Haan J, Terwindt GM, Maassen JA, Hart LM, Frants RR, Ferrari MD. Search for mitochondrial

- DNA mutations in migraine subgroups. *Cephalalgia* 1999;19:20-22.
- 88) MaassenVanDenBrink A, Bax WA, Ramrattan NN, Ferrari MD, Saxena PR. Human isolated coronary artery contraction to sumatriptan: a post hoc analysis. *Cephalalgia* 1999;19:651-654.
 - 89) Van Dijk JG, Ferrari MD. Nerve conduction sensitivity in diabetic neuropathy. *Muscle & Nerve* 1999;140-141.
 - 90) Lesnik Oberstein SAJ, Ferrari MD, Bakker E, Van Gestel J, Kneppers ALJ, Frants RR, Breuning MH, Haan J. Diagnostic Notch3 sequence analysis in CADASIL: Three new mutations in Dutch patients. *Neurology* 1999;52:1913-1915.
 - 91) Lammers GJ, Van Dijk JG, Ferrari MD, Van Gerven JMA, Declerck AC, Troost J. Gammahydroxyboterzuur dient beschikbaar te blijven voor patiënten met narcolepsie. *Ned Tijdschr Geneesk* 1999;143:2062.
 - 92) Launer LJ, Terwindt GM, Ferrari MD. The prevalence and characteristics of migraine in a population-based cohort. The GEM study. *Neurology* 1999;53:537-542.
 - 93) Diener HC, Dowson AJ, Ferrari MD, Nappi G, Tfelt-Hansen P. Unbalanced randomization influences placebo response: scientific versus ethical issues around the use of placebo in migraine trials. *Cephalalgia* 1999;19:699-700.
 - 94) Roon KI, MaassenVanDenBrink A, Ferrari MD, Saxena PR. Bovine isolated middle cerebral artery contractions to antimigraine drugs. *Naunyn-Schmiedeberg's Arch Pharmacol* 1999;360:591-596.
 - 95) Koehler PJ, Ferrari MD. Chronisch recidiverende hoofdpijn zonder neurologische afwijkingen. Richtlijnen van de Nederlandse Vereniging voor Neurologie. *Ned Tijdschr Geneesk* 1999; 143:1234-1237.
 - 96) Sandor PS, Roon KI, Ferrari MD, van Dijk JG, Schoenen J. Repeatability of the intensity dependence of cortical auditory evoked potentials in the assessment of cortical information processing. *Cephalalgia* 1999; 19:873-879.
 - 97) Roon KI, Sandor PS, Schoonman GG, Lamers FPL, Schoenen J, Ferrari MD, van Dijk JG. Auditory evoked potentials in the assessment of central nervous system effects of antimigraine drugs. *Cephalalgia* 1999;19:880-885.
 - 98) Roon KI, Olesen J, Diener HC, Ellis P, Hettiarachchi J, Poole PH, Christiansen I, Kleinermans D, Kok G, Ferrari MD. No acute Antimigraine Efficacy of CP-122,288, a highly potent inhibitor of neurogenic inflammation: results of two randomized, double-blind, placebo-controlled clinical trials. *Ann Neurol* 2000; 47:238-241.
 - 99) Goadsby PJ, Ferrari MD, Olesen J, et al. Eletriptan in acute migraine: a double-blind, placebo-controlled comparison to sumatriptan. *Neurology* 2000;54:156-163.
 - 100) Plomp JJ, Vergouwe MN, Van den Maagdenberg AM, Ferrari MD, Frants RR, Molenaar PC. Abnormal transmitter release at neuromuscular junctions of mice carrying the tottering α_{1A} Ca^{2+} channel mutation. *Brain* 2000;123:463-471.
 - 101) Tfelt-Hansen P, Saxena PR, Dahlöf C, Pascual J, Láines M, Henry P, Diener HC, Schoenen J, Ferrari MD, Goadsby PJ. Ergotamine in the acute treatment of migraine. A review and European consensus. *Brain* 2000;123:9-18.
 - 102) Dahlöf CGH, Lipton RB, McCarroll KA, Kramer MS, Lines CR, Ferrari MD. Within-patient consistency of response of rizatriptan for treating migraine. *Neurology* 2000;55:1511-1516.
 - 103) Haan J, Sluis P, Sluis LH, Ferrari MD. Acetazolamide treatment for migraine aura status. *Neurology* 2000;55:1588-1589.
 - 104) Haan J, Ferrari MD. Mahler's Migraine. *Cephalalgia* 2000;20:254.
 - 105) Roon KI, Bakker D, van Poelgeest MIE, van Buchem MA, Ferrari MD, Middelkoop HAM. The influence of ergotamine abuse on psychological and cognitive functioning. *Cephalalgia* 2000;20:462-469.
 - 106) Terwindt GM, Ferrari MD, Tijhuis M, Groenen SMA, Picavet HSJ, Launer LJ. The impact of migraine on quality of life in the general population. The GEM study. *Neurology* 2000;55:624-629.
 - 107) Ferrari MD, Haan J. Migraine aura, illusory vertical splitting, and Picasso. *Cephalalgia* 2000;20(8):686.
 - 108) Haan J, Kors EE, Terwindt GM, Vermeulen FLMG, Vergouwe MN, van den Maagdenberg AMJM, Gill DS, Pascual J, Ophoff RA, Frants RR, Ferrari MD. Alternating hemiplegia of childhood: no mutations in the familial hemiplegic migraine CACNA1A gene. *Cephalalgia* 2000;20(8): 696-700.
 - 109) Tfelt-Hansen P, Block G, Dahlöf C, Diener H-C, Ferrari MD, Goadsby PJ, Guidetti V, Jones B, Lipton RB, Massiou H, Meinert C, Sandrini G, Steiner T, Winter PBO. Guidelines for controlled trials of drugs in migraine: second edition. *Cephalalgia* 2000;20:765-786.
 - 110) Terwindt GM, Ophoff RA, van Eijk R, Vergouwe MN, Haan J, Frants RR, Sandkuijl LA, Ferrari MD. Involvement of the CACNA1A gene containing region on 19p13 in migraine with and without aura.

- Neurology* 2001; 56:1028-1032.
- 111) Kors EE, Terwindt GM, Vermeulen FLMG, Fitzsimons RB, Jardine PE, Heywood P, Love S, van den Maagdenberg AMJM, Haan J, Frants RR, Ferrari MD. Delayed cerebral edema and fatal coma after minor head trauma. Role of the CACNA1A calcium channel subunit gene and relationship with familial hemiplegic migraine. *Ann Neurol* 2001; 49: 753-760
 - 112) Goldstein DJ, Roon KI, Offen WW, Ramadan NM, Phebus LA, Johnson KW, Schaus JM, Ferrari MD. "Selective serotonin 1F (5-HT 1F) receptor agonist LY334370 for acute migraine: a randomised controlled trial". *Lancet* 2001; 358: 1230-34..
 - 113) Ferrari MD, Roon KI, Lipton RB, Goadsby PJ. Oral triptans (serotonin, 5-HT_{1B/1D} agonists) in acute migraine treatment: a meta-analysis of 53 trials. *Lancet* 2001; 358: 1668-75.
 - 114) Cerebral microbleeds in CADASIL. Lesnik Oberstein SAJ, van den Boom R, van Buchem MA, van Houwelingen HC, Bakker E, Vollebrect E, Ferrari MD, Breuning MH, Haan J for the Dutch CADASIL Research Group. *Neurology* 2001; 57: 1066-70.
 - 115) Ophoff RA, DeYoung J, Service SK, Joosse M, Caffo NA, Sandkuijl LA, Terwindt GM, Haan J, van den Maagdenberg AMJM, Jen J, Baloh RW, Barilla-la Barca M-L, Saccone NL, Atkinson JP, Ferrari MD, Freimer NB, Frants RR. Hereditary vascular retinopathy (HVR), Cerebroretinal vasculopathy (CRV) and Hereditary endotheliopathy with retinopathy, nephropathy and stroke (HERNS) map to a single locus on chromosome 3p21.1-p21.3. *Am J Hum Genet* 2001; 69: 447-53.
 - 116) Adelman JU, Lipton RB, Ferrari MD, Diener HC, McCarroll KA, Vandormael K, Lines CR. Comparison of rizatriptan and other triptans on stringent measures of efficacy. *Neurology* 2001; 57:1377-83.
 - 117) Ferrari MD, Loder E, McCarroll KA, Lines CR. Meta-analysis of rizatriptan efficacy in randomized controlled clinical trials. *Cephalalgia* 2001; 21:129-136.
 - 118) Haan H, van Vliet JA, Kors EE, Terwindt GM, Vermeulen FLMG, van den Maagdenberg AMJM, Frants RR, Ferrari MD. No involvement of the calcium channel gene (CACNA1A) in a family with cluster headache. *Cephalalgia* 2001; 21: 959-62.
 - 119) Ferrari MD, Goadsby PJ, Roon KI, Lipton RB. Oral triptans (serotonin, 5-HT_{1B/1D} agonists) in migraine: methods and detailed results of a meta-analysis of 53 trials. *Cephalalgia* 2002; 22: 633-658.
 - 120) Badrising UA, Maat-Schieman MLC, Ferrari MD, Zwinderman AH, Wessels JAM, Breedveld FC, van Doorn PA, van Engelen BGM, Hoogendijk JE, Höweler CJ, de Jager AE, Jennekens FGI, Koehler PJ, de Visser M, Viddeleer A, Verschuuren JJ, Wintzen AR. Comparison of weakness progression in inclusion body myositis during treatment with methotrexate or placebo. *Ann Neurol* 2002; 52:369-372.
 - 121) Goadsby PJ, Lipton RB, Ferrari MD. Migraine, current understanding and treatment. *New Eng J Med* 2002; 346 (4): 257-270.
 - 122) Ferrari MD. Tripstar: A comprehensive patient-based approach to compare triptans. *Headache* 2002; 42 (suppl 1):S18-S25.
 - 123) Schoonman GG, Wiendels NJ, Ferrari MD. Gabapentin in Migraine Prophylaxis: Is it Effective and Well Tolerated? *Headache* 2002; 42: 235
 - 124) Terwindt G, Kors E, Haan J, Vermeulen F, Maagdenberg van den A, Frants R, Ferrari M. Mutation Analysis of the CACNA1A Calcium Channel Subunit Gene in 27 Patients with Sporadic Hemiplegic Migraine. *Arch Neurol* 2002; 59:1016-1018
 - 125) Haan J, Kors EE, Ferrari MD. Familial cyclic vomiting syndrome. *Cephalalgia* 2002; 22:552-554.
 - 126) van Vliet JA, Vein AA, le Cessie S, Ferrari MD, van Dijk JG. Reproducibility and feasibility of neurophysiological assessment of the sensory trigeminal system for future application to paroxysmal headaches. *Cephalalgia* 2002; 22:474-481.
 - 127) Goadsby PJ, Lipton RB, Ferrari MD. Treatment of Migraine. *New Eng J Med* 2002; 347:764-766.
 - 128) Adelman JU, Lipton RB, Ferrari MD, Diener HC, McCarroll KA, Vandormael K, Lines. Comparison of rizatriptan and other triptans on stringent measures of efficacy. *Neurology* 2002; 59:787-788.
 - 129) Overeem S, van Vliet JA, Lammers GJ, Zitman FG, Swaab DF, Ferrari MD. The hypothalamus in episodic brain disorders. *Lancet Neurology* 2002;1: 437-444.
 - 130) Ferrari MD, Roon KI, Lipton RB, Goadsby PJ. Triptan medications to treat acute migraine. *Lancet* 2002; 359: 1152-53.
 - 131) van den Boom R, Lesnik Oberstein SA, van Duinen SG, Bornebroek M, Ferrari MD, Haan J, van Buchem MA. Subcortical lacunar lesions: an MRI imaging finding in patients with cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy. *Radiology* 2002;224: 791-796.
 - 132) VandenMaagdenberg AMJM, Kors EJ, Brunt RR, van Paesschen W, Pascual J, Ravine D., Keeling S., Vanmolkot KRJ, Vermeulen RLMG, Terwindt GM, Frants RR, Ferrari MD. Episodic ataxia type 2.

- Three novel truncating mutations and one novel missense mutation in the CACNA1A gene. *J Neurol* 2002;249:1515-1519.
- 133) Ferrari MD. Obituary George W. Bruyn. *Cephalalgia* 2002;22:767-768.
 - 134) van Vliet JA, Bahra A, Martin V, Ramadan N, Aurora SK, Mathew NT, Ferrari MD, Goadsby PJ. Intranasal sumatriptan in cluster headache. *Neurology* 2003;60:-633.
 - 135) van Vliet JA, Ferrari MD, Haan J, Laan LAEM, Voormolen JHC. Trigeminal autonomic cephalgic-like syndrome associated with a pontine tumour in a one-year-old girl. *J Neurol Neurosurg Psychiatry* 2003;74:388-394.
 - 136) Vanmolkot KR, Kors EE, Hottenga JJ, Terwindt GM, Haan J, Hoefnagels WA, Black DF, Sandkuijl LA, Frants RR, Ferrari MD, Van Den Maagdenberg AM. Novel mutations in the Na⁺, K⁺-ATPase pump gene ATP1A2 associated with familial hemiplegic migraine and benign familial infantile convulsions. *Ann Neurol*. 2003 Sep;54(3):360-6.
 - 137) Lesnik Oberstein SAJ, Jukema W, Van Duinen S, MacFarlane P, Van Houwelingen HC, Breuning MH, Ferrari MD, Haan J. Myocardial infarction in CADASIL. *Medicine* 2003;82:251-256.
 - 138) Lesnik Oberstein SAJ, Van Duinen SG, Van den Boom R, Maat-Schieman MLC, Van Buchem MA, Van Houwelingen HC, Hegeman-Kleinn IM, Ferrari MD, Breuning MH, Haan J. Evaluation of diagnostic NOTCH3 immunostaining in CADASIL. *Acta Neuropathologica* 2003;106:107-111.
 - 139) Van den Boom R, Lesnik Oberstein SAJ, Ferrari MD, Haan J, Van Buchem MA. CADASIL lesions on MRI findings in different ages: third through sixth decades. *Radiology* 2003;229: 683-690
 - 140) Kors EE, Haan J, Giffin NJ, Pazdera L, Schnittger C, Lennox GG, Terwindt GM, Vemeulen FLMJ, Van den Maagdenberg AMJM, Frants RR, Ferrari MD. Expanding the phenotypic spectrum of the CACNA1A gene T666M mutation. *Arch Neurol*. 2003;60:684-688.
 - 141) Lesnik Oberstein SAJ, Van den Boom R, Middelkoop HAM, Ferrari MD, Knaap YM, Van Houwelingen HC, Breuning MH, Van Buchem MA, Haan J. Incipient CADASIL. *Arch Neurol*. 2003;60:707-712.
 - 142) Van den Boom R, Lesnik Oberstein SAJ, Spilt A, Behloul F, Ferrari MD, Haan J, Westendorp RG, Van Buchem MA. Cerebral hemodynamics and white matter hyperintensities in CADASIL. *J of Cerebral Blood Flow & Metabolism* 2003; 23: 599-604.
 - 143) Overeem S, Steens SCA, Good CD, Ferrari MD, Mignot E, Frackowiak RSJ, van Buchem MA, Lammers GJ. Voxel-based morphometry in hypocretin-deficient narcolepsy. *Sleep*, 2003; 26,1:44-46.
 - 144) Van Vliet JA, Vein AA, Le Cessie S, Ferrari MD, van Dijk JG. Impairment of trigeminal sensory pathways in cluster headache. *Cephalalgia*, 2003; 23:414-419.
 - 145) Van Vliet JA, Ferrari MD, Haan J. SUNCT syndrome resolving after contralateral hemispheric ischaemic stroke. *Cephalalgia* 2003; 23: 235-37.
 - 146) Van Vliet JA, Eekers PJE, Haan J, Ferrari MD. Features involved in the diagnostic delay of cluster headache. *J Neurol Neurosurg Psychiatry*, 2003;74(8):1123-1125.
 - 147) Kruit MC, van Buchem MA, Hofman PAM, Bakkers JTN, Terwindt GM, Ferrari MD, Launer LJ. Migraine as a Risk Factor for Subclinical Brain Lesions. *JAMA* 2004; 291: 427-434.
 - 148) Van Vliet JA, Haan J, Ferrari MD. A patient with long-lasting attacks of bilateral blepharospasm, photophobia, lacrimation and rhinorrhoea. *Cephalalgia* 2004; 24 (2):143-146.
 - 149) Van den Maagdenberg AMJM, Pietrobon D, Pizzorusso, Kaja S, Broos LAM, Cesetti T, Ven RCG. van de, Tottene A, Kaa J van der, Plomp JJ, Frants RR, Ferrari MD. A *Cacna1a* knock-in migraine mouse model with increased susceptibility to cortical spreading depression. *Neuron* 2004; 41:701-710.
 - 150) Hoff JI, Bloem BR, Ferrari MD, Lammers GJ. A breathtaking headache. *J Neurol Neurosurg Psychiatry* 2004;75:506-509.
 - 151) Van der Dussen DH, Bloem BR, Liauw L, Ferrari MD. Ophthalmoplegic migraine: migrainous or inflammatory? *Cephalalgia* 2004;24:312-315.
 - 152) Goadsby PJ, Dodick DW, Ferrari MD, McCrory DC, Williams P. TRIPSTAR: prioritizing oral triptan treatment attributes in migraine management. *Acta Neurol Scand*. 2004 Sep;110(3):137-43.
 - 153) Lipton RB, Liberman J, Cutrer FM, Goadsby PJ, Ferrari MD, Dodick DW, McCrory D, Williams P. Treatment preferences and the selection of acute migraine medications: results from a population-based survey. *J Headache Pain* 2004; 5: 123-130.
 - 154) Cutrer FR, Goadsby PJ, Ferrari MD, Lipton RB, Dodick DW, McCrory DC, Williams P. Priorities for triptan treatment attributes and the implications for selecting an oral triptan for acute migraine: a study of US primary care physicians (the TRIPSTAR project). *Clinical Therapeutics* 2004;26:1533-1545.
 - 155) Kors EE, Melberg A, Vanmolkot KRJ, Kumlien E, Haan J, Raininko R, Flink R, Ginjaar HB, Frants RR, Ferrari MD, van den Maagdenberg AMJM. Childhood epilepsy, familial hemiplegic migraine, cerebellar ataxia, and a new CACNA1A mutation. *Neurology* 2004;63:1136-1137.
 - 156) Ferrari MD. Should we advise patients to treat migraine attacks early? *Cephalalgia* 2004; 24:915-917.

- 157) Dodick DW, Lipton RB, Ferrari MD, Goadsby PJ, McCrory D, Cutrer FM, Williams P. Prioritizing treatment attributes and their impact on selecting an oral triptan: results from the TRIPSTAR project. *Current Pain and Headache Reports* 2004;8:435-442.
- 158) Terwindt GM, Kors EE, Vein AA, Ferrari MD, van Dijk JG. Single-fiber EMG in familial hemiplegic migraine. *Neurology* 2004;63:1942-1943.
- 159) Kors EE, Vanmolkot KRJ, Haan J, Kheradmand Kia S, Stroink H, Laan LAEM, Gill DS, Pascual J. van den Maagdenberg AMJM, Frants RR, Ferrari MD. Alternating hemiplegia of childhood: no mutations in the second familial hemiplegic migraine gene *ATP1A2*. *Neuropediatrics* 2004;35:293-296.
- 160) Diener HC, Ferrari MD, Mansbach H. Predicting the response to sumatriptan. The sumatriptan naratriptan aggregate patient database. *Neurology* 2004;63:520-524.
- 161) Kruit MC, Launer LJ, Ferrari MD, van Buchem MA. Infarcts in the posterior circulation territory in migraine. The population-based MRI CAMERA Study. *Brain* 2005;128, 2068-2077.
- 162) Dichgans M, Freilinger T, Eckstein G, Babini E, Lorenz-Depiereux B, Biskup S, Ferrari MD, Herzog J, van den Maagdenberg AM, Pusch M, Strom TM. Mutation in the neuronal voltage-gated sodium channel *SCN1A* in familial hemiplegic migraine. *Lancet* 2005 Jul 30-Aug 5; 366 (9483):371-7.
- 163) Ferrari MD, Goadsby PJ, Lipton RB, Dodick DW, Cutrer FM, McCrory D, Williams P. The use of multiattribute decision models in evaluating triptan treatment options in migraine. *J Neurol* 2005; 252:1026-1032.
- 164) Lipton RB, Cutrer FM, Goadsby PJ, Ferrari MD, Dodick DW, McCrory D, Liberman JN, Williams P. How treatment priorities influence triptan preferences in clinical practice: perspectives of migraine sufferers, neurologists, and primary care physicians. *Current Medical Research and Opinion* 2005; vol. 21, no. 3: 413-424.
- 165) Ferrari MD. Should we advise patients to treat migraine attacks early: methodologic issues. *European Neurology* 2005; 53(suppl. 1): 17-21.
- 166) Wiendels NJ, van der Geest MCM, Knuistingh Neven A, Ferrari MD, Laan LAEM. Chronic daily headache in children and adolescents. *Headache* 2005;45:678-683.
- 167) Kaja S, van de Ven RCG, Broos LAM, Veldman H, van Dijk JG, Verschuuren JJGM, Frants RR, Ferrari MD, van den Maagdenberg AMJM, Plomp JJ. Gene dosage-dependent transmitter release changes at neuromuscular synapses of *Cacna1a* R192Q knockin mice are non-progressive and do not lead to morphological changes or muscle weakness. *Neuroscience* 2005; 135:81-95.
- 168) Scher AI, Terwindt GM, Picavet HSJ, Verschuren WMM, Ferrari MD, Launer LJ. Cardiovascular risk factors and migraine. The GEM population-based study. *Neurology* 2005;64:614-620.
- 169) Hottenga J, Vanmolkot K, Kors E, Kheradmand Kia S, de Jong P, Haan J, Terwindt GM, Frants R, Ferrari M, van den Maagdenberg A. The 3p21.1-p21.3 hereditary vascular retinopathy locus increases the risk for Raynaud's phenomenon and migraine. *Cephalalgia* 2005 Dec; 25 (12):1168-72.
- 170) van Vliet JA, Vein AA, Ferrari MD, van Dijk JG. Cardiovascular autonomic function tests in cluster headache. *Cephalalgia* 2006; 26:329-331.
- 171) van Vliet JA, Eekers PJE, Haan J, Ferrari MD. Evaluating the IHS criteria for cluster headache – a comparison between patients meeting all criteria and patients failing one criterion. *Cephalalgia* 2006;26: 241-245.
- 172) Kaja S, van de Ven RCG, Ferrari MD, Frants RR, van den Maagdenberg AMJM, Plomp JJ. Compensatory contribution of $Ca_v2.3$ channels to acetylcholine release at the neuromuscular junction of tottering mice. *J Neurophysiol* 2006;95:2698-2704.
- 173) Di Rosa G, Spano M, Pustorino G, Ferrari MD, Stam AH, Sgro DL, Mannarino E, Bonsignore M, Tortorella G. Alternating hemiplegia of childhood successfully treated with topiramate: 18 months of follow-up. *Neurology* 2006;66:146.
- 174) Scher AI, Terwindt GM, Verschuren WMM, Kruit MC, Blom HJ, Kowa H, Frants RR, van den Maagdenberg AMJM, van Buchem M, Ferrari MD, Launer LJ. Migraine and MTHFR C677T genotype in a population-based sample. *Ann Neurol* 2006;59:372-375.
- 175) van Vliet JA, Favier I, Helmerhorst FM, Haan J, Ferrari MD. Cluster headache in women – relation with menstruation, use of oral contraceptives, pregnancy and menopause. *J Neurol Neurosurg Psychiatry* 2006;77:690-692.
- 176) Vanmolkot KRJ, Stroink H, Koenderink JB, Kors EE, van den Heuvel JJMW, van den Boogerd EH, Stam AH, Haan J, de Vries BBA, Terwindt GM, Frants RR, Ferrari MD, van den Maagdenberg AMJM. Severe episodic neurological deficits and permanent mental retardation in a child with a novel FHM2 *ATP1A2* mutation. *Ann Neurol* 2006;59:310-314.
- 177) Kruit MC, Launer LJ, Ferrari MD, van Buchem MA. Brain stem and cerebellar hyperintense lesions in migraine. *Stroke* 2006;37:1109-1112.

- 178) Thijs RD, Kruit MC, van Buchem MA, Ferrari MD, Launder LJ, van Dijk JG. Syncope in migraine: the population-based CAMERA study. *Neurology* 2006;66:1034-1037.
- 179) Todorov B, van de Ven BCG, Kaja S, Broos LAM, Verbeek SJ, Plomp JJ, Ferrari MD, Frants RR, van den Maagdenberg AMJM. Conditional inactivation of the *Cacnala* gene in transgenic mice. *Genesis* 2006;44:589-594.
- 180) Schoonman GG, Evers DJ, Terwindt GM, van Dijk JG, Ferrari MD. The prevalence of premonitory symptoms in migraine: a questionnaire study in 461 patients. *Cephalalgia* 2006;26:1209-1213.
- 181) Wiendels NJ, van Haestregt A, Knuistingh Neven A, Spinhoven P, Zitman FG, Assendelft WJJ, Ferrari MD. Chronic frequent headache in the general population: comorbidity and quality of life. *Cephalalgia* 2006;26:1443-1450.
- 182) Wiendels NJ, Knuistingh Neven A, Rosendaal FR, Spinhoven P, Zitman FG, Assendelft WJJ, Ferrari MD. Chronic frequent headache in the general population: prevalence and associated factors. *Cephalalgia* 2006;26:1434-1442.
- 183) Goadsby PJ, Schoenen J, Ferrari MD, Silberstein SD, Dodick D. Towards a definition of intractable headache for use in clinical practice and trials. *Cephalalgia* 2006;26:1168-1170.
- 184) Schoonman GG, Bakker D, Schmitz N, van der Geest RJ, van der Grond J, Ferrari MD, van Buchem MA. Magnetic resonance angiography of the human middle meningeal artery: implications for migraine. *J of Magnetic Resonance Imaging* 2006;24:918-921.
- 185) de Vries B, Haan J, Stam AH, Vanmolkot KRJ, Stroink H, Laan LAEM, Gill DS, Pascual J, Frants RR, van den Maagdenberg AMJM, Ferrari MD. Alternating hemiplegia of childhood: no mutations in the glutamate transporter EAAT1. *Neuropediatrics* 2006;37:302-304.
- 186) Schoonman GG, Sándor PS, Agosti RM, Siccoli M, Bärtsch P, Ferrari MD, Baumgartner RW. Normobaric hypoxia and nitroglycerin as trigger factors for migraine. *Cephalalgia*. 2006 Jul;26(7):816-9.
- 187) Vanmolkot KRJ, Kors EE, Turk U, Turkdogan D, Keyser A, Broos LAM, Kia SK, van den Heuvel JJMW, Black DF, Haan J, Frants RR, Barone V, Ferrari MD, Casari G, Koenderink JB, van den Maagdenberg AMJM. Two de novo mutations in the Na,K-ATPase gene *ATP1A2* associated with pure familial hemiplegic migraine. *Eur J Hum Genet* 2006;14(5):555-560.
- 188) Haan J, Hollander J, Ferrari MD. Migraine in the elderly: a review. *Cephalalgia* 2006;27:97-106.
- 189) Favier I, van Vliet JA, Roon KI, Witteveen RJW, Verschuuren JJGM, Ferrari MD, Haan J. Trigeminal autonomic cephalgias due to structural lesions. *Arch Neurol* 2007;64:25-31.
- 190) Favier I, Haan J, van Duinen SJ, Ferrari MD. Typical cluster headache caused by granulomatous pituitary involvement. *Cephalalgia* 2007;27:173-176.
- 191) Kaja S, van de Ven RCG, Broos LAM, Frants RR, Ferrari MD, van den Maagdenberg AMJM, Plomp JJ. Characterization of acetylcholine release and the compensatory contribution of non-Ca_v2.1 channels at motor nerve terminals of *leaner* Ca_v2.1-mutant mice. *Neuroscience* 2007;144:1278-1287.
- 192) Kaja S, van de Ven RCG, van Dijk JG, Verschuuren JJGM, Arahata K, Frants RR, Ferrari MD, van den Maagdenberg AMJM, Plomp JJ. Severely impaired neuromuscular synaptic transmission causes muscle weakness in the *Cacnala*-mutant mouse *rolling Nagoya*. *European J of Neuroscience* 2007;25:2009-2020.
- 193) Kaja S, Todorov B, van de Ven RCG, Ferrari MD, Frants RR, van den Maagdenberg AMJM, Plomp JJ. Redundancy of of Ca_v2.1 channel accessory subunits in transmitter release at the mouse neuromuscular junction. *Brain Research* 2007;1143:92-101.
- 194) Thijs RD, Kruit MC, van Buchem MA, Ferrari MD, Launder LJ, van Dijk JG. Syncope in migraine: The population-based CAMERA study. *Neurology* 2007;68:878-879.
- 195) Liem MK, van der Grond J, Haan J, van den Boom R, Ferrari MD, Knaap YM, Breuning MH, van Buchem MA, Middelkoop HAM, Lesnik Oberstein SAJ. Lacunar infarcts are the main correlate with cognitive dysfunction in CADASIL. *Stroke* 2007;38:923-928.
- 196) Mehrotra S, Vanmolkot KR, Frants RR, van den Maagdenberg AM, Ferrari MD, Maassen van den Brink A. The phe-124-Cys and A-161T variants of the human 5-HT_{1B} receptor gene are not major determinants of the clinical response to sumatriptan. *Headache* 2007 May;47(5):711-716.
- 197) Schoonman GG, Evers DJ, Ballieux BE, de Geus EJ, de Kloet ER, Terwindt GM, van Dijk JG, Ferrari MD. Is stress a trigger factor for migraine? *Psychoneuroendocrinology* 2007 Jun;32(5):532-538.
- 198) Vanmolkot KR, Babini E, de Vries B, Stam AH, Freilinger T, Terwindt GM, Norris L, Haan J, Frants RR, Ramadan NM, Ferrari MD, Pusch M, van den Maagdenberg AM, Dichgans M. The novel p.L1649Q mutation in the SCN1A epilepsy gene is associated with familial hemiplegic migraine: genetic and functional studies. Mutation in brief #957. Online. *Hum Mutat* 2007 May;28(5):1-9
- 199) Van de Ven RC, Hogers B, van den Maagdenberg AM, de Groot HJ, Ferrari MD, Frants RR, Poelmann RE, van der Weerd L, Kiihne SR. T(1) relaxation in in vivo mouse brain at ultra-high field. *Magn*

- Reson Med* 2007 Aug;58(2):390-395.
- 200) Vanmolkot KR, Stam AH, Raman A, Koenderink JB, de Vries B, van den Boogerd EH, van Vark J, van den Heuvel JJ, Bajaj N, Terwindt GM, Haan J, Frants RR, Ferrari MD, van den Maagdenberg AM. First case of compound heterozygosity in Na,K-ATPase gene ATP1A2 in familial hemiplegic migraine. *Eur J Hum Genet.* 2007 Aug;15(8):884-888.
 - 201) Haan J, Lesnik Oberstein SA, Ferrari MD. Epilepsy in cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy. *Cerebrovasc Dis* 2007;24(2-3): 316-317.
 - 202) Schoonman GG, Sandor PS, Nirkko AC, Lange T, Jaermann T, Dydak U, Kremer C, Ferrari MD, Boesiger P, Baumgartner RW. Hypoxia-induced acute mountain sickness is associated with intracellular cerebral edema: a 3 T magnetic resonance imaging study. *J Cereb Blood Flow Metab* 2007 May;1-9.
 - 203) Richards A, van den Maagdenberg AM, Jen JC, Kavanagh D, Bertram P, Spitzer D, Liszewski MK, Barilla-Labarca ML, Terwindt GM, Kasai Y, McLellan M, Grand MG, Vanmolkot KR, de Vries B, Wan J, Kane MJ, Mamsa H, Schafer R, Stam AH, Haan J, de Jong PT, Storimans CW, van Schooneveld MJ, Oosterhuis JA, Gschwendter A, Dichgans M, Kotschet KE, Hodgkinson S, Hardy TA, Delatycki MB, Hajj-Ali RA, Kothari PH, Nelson SF, Frants RR, Baloh RW, Ferrari MD, Atkinson JP. C-terminal truncations in human 3'-5' DNA exonuclease TREX1 cause autosomal dominant retinal vasculopathy with cerebral leukodystrophy. *Nature Genetics* 2007; 39(9): 1068-1070.
 - 204) Castro MJ, Stam AH, Lemos C, Barros J, Gouveia RG, Martins IP, Koenderink JB, Vanmolkot KR, Mendes AP, Frants RR, Ferrari MD, Sequeiros J, Pereira-Monteiro JM, van den Maagdenberg AM. Recurrent ATP1A2 mutations in Portuguese families with familial hemiplegic migraine. *J Hum Genet.* 2007;52(12):990-8.
 - 205) De Vries B, Freilinger T, Vanmolkot KRJ, Koenderink JB, Stam AH, Terwindt GM, Babini E, Van den Boogerd EH, Van den Heuvel JJMW, Frants RR, Haan J, Pusch M, Van den Maagdenberg AMJM, Ferrari MD, Dichgans M. Systematic analysis of three FHM genes in 39 sporadic patients with hemiplegic migraine. *Neurology* 2007;69:2170-2176
 - 206) Dodick DW, Lipton RB, Goadsby PJ, Tfelt-Hansen P, Ferrari MD, Diener HC, Almas M, Albert KS, Parsons B. Predictors of migraine headache recurrence: a pooled analysis from the eletriptan database. *Headache.* 2008 Feb;48(2):184-93.
 - 207) Schoonman GG, Sándor PS, Nirkko AC, Lange T, Jaermann T, Dydak U, Kremer C, Ferrari MD, Boesiger P, Baumgartner RW. Hypoxia-induced acute mountain sickness is associated with intracellular cerebral edema: a 3T magnetic resonance imaging study. *J Cer Blood Flow and Metabolism* (2008) 28, 198-206.
 - 208) Kaja S, Van De Ven RC, Frants RR, Ferrari MD, Van Den Maagdenberg AM, Plomp JJ. Reduced Ach release at neuromuscular synapses of heterozygous leaner Ca(v)2.1-mutant mice. *Synapse* 2008 62:337-344.
 - 209) Schmitz N, Admiraal-Behloul F, Arkink EB, Kruit MC, Schoonman GG, Ferrari MD, van Buchem MA. Attack frequency and disease duration as indicators for brain damage in migraine. *Headache* 2008 Jul;48(7):1044-55
 - 210) de Vries B, Stam AH, Beker F, van den Maagdenberg AM, Vanmolkot KR, Laan L, Ginjaar IB, Frants RR, Lauffer H, Haan J, Haas JP, Terwindt GM, Ferrari MD. CACNA1A mutation linking hemiplegic migraine and alternating hemiplegia of childhood. *Cephalalgia.* 2008 Aug;28(8):887-91.
 - 211) Schmitz N, Arkink EB, Mulder M, Rubia K, Admiraal-Behloul F, Schoonman GG, Kruit MC, Ferrari MD, van Buchem MA. Frontal lobe structure and executive function in migraine patients. *Neurosci Lett.* 2008 Aug 1;440(2):92-6.
 - 212) Kahlig KM, Rhodes TH, Pusch M, Freilinger T, Pereira-Monteiro JM, Ferrari MD, van den Maagdenberg AM, Dichgans M, George AL Jr. Divergent sodium channel defects in familial hemiplegic migraine. *Proc Natl Acad Sci U S A.* 2008 Jul 15;105(28):9799-804
 - 213) Schoonman GG, van der Grond J, Kortmann C, van der Geest RJ, Terwindt GM, Ferrari MD. Migraine headache is not associated with cerebral or meningeal vasodilatation--a 3T magnetic resonance angiography study. *Brain.* 2008 Aug;131(Pt 8):2192-200.
 - 214) Graves TD, Imbrici P, Kors EE, Terwindt GM, Eunson LH, Frants RR, Haan J, Ferrari MD, Goadsby PJ, Hanna MG, van den Maagdenberg AM, Kullmann DM. Premature stop codons in a facilitating EF-hand splice variant of CaV2.1 cause episodic ataxia type 2. *Neurobiol Dis.* 2008 Oct;32(1):10-5.
 - 215) Van Oosterhout F, Michel S, Deboer T, Houben T, Van de Ven RCG, Albus H, Westerhout J, Vansteensel MJ, Ferrari MD, Van den Maagdenberg AMJM, Meijer JH. Enhanced circadian phase resetting in R192Q Ca(v)2.1 calcium channel migraine mice. *Ann Neurol* 2008 Sep 29;64(3):315-32
 - 216) Nyholt DR, Laforge KS, Kallela M, Alakurtti K, Anttila V, Färkkilä M, Hämaläinen E, Kaprio J,

- Kaunisto MA, Heath AC, Montgomery GW, Göbel H, Todt U, Ferrari MD, Launer LJ, Frants RR, Terwindt GM, de Vries B, Verschuren WM, Brand J, Freilinger T, Pfaffenrath V, Straube A, Ballinger DG, Zhan Y, Daly MJ, Cox DR, Dichgans M, van den Maagdenberg AM, Kubisch C, Martin NG, Wessman M, Peltonen L, Palotie A. A high-density association screen of 155 ion transport genes for involvement with common migraine. *Hum Mol Genet.* 2008 Nov;17: 3318-3331.
- 217) Ho TW, Ferrari MD, Dodick DW, Galet V, Kost J, Fan X, Leibensperger H, Froman S, Assaid C, Lines C, Koppen H, Winner PK. Efficacy and tolerability of MK-0974 (telcagepant), a new oral antagonist of calcitonin gene-related peptide receptor, compared with zolmitriptan for acute migraine: a randomised, placebo-controlled, parallel-treatment trial. *Lancet.* 2008 Dec 20;372: 2115-2123.
- 218) Stam AH, Vanmolkot KRJ, Kremer HPJ, Gärtner J, Brown J, Leshinsky-Silver E, Gilad R, Kors EE, Frankhuizen WS, Ginjaar HB, Haan J, Frants RR, Ferrari MD, van den Maagdenberg AMJM, Terwindt GM. CACNA1A R1347Q: a frequent recurrent mutation in hemiplegic migraine. *Clin Genet* 2008;74: 481-485.
- 219) Schoonman GG, Ferrari MD. Brain, advance acces. Response to letter from MaassenVanDenBrink. *Brain.* Oct 2008
- 220) Liem MK, Lesnik Oberstein SAJ, Haan J, van der Neut IL, van den Boom R, Ferrari MD, van Buchem MA, van der Grond J. Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy: Progression of MR abnormalities in proespective 7-year follow-up study. *Radiology:* volume 249: (3) Dec 2008: 964-971.
- 221) Schmitz N, Admiraal-Behloul F, Arkink EB, Kruit MC, Schoonman GG, Ferrari MD, van Buchem MA. Attack frequency and disease duration as indicators for brain damage in migraine. *Headache* 2008; 48:1044-1055.
- 222) Luykx J, Mason M, Ferrari MD, Carpay J. Are migraineurs at increased risk of adverse drug responses?: A meta-analytic comparison of topiramate-related adverse drug reactions in epilepsy and migraine. *Clin Pharmacol Ther.* 5 Nov 2008:1-6.
- 223) Castro MJ, Stam AH, Lemos C, de Vries B, Vanmolkot KRJ, Barros J, Terwindt GM, Frants RR, Sequeiros J, Ferrari MD, Pereira-Monteiro JM, van den Maagdenberg AMJM. First mutation in the voltage-gated Nav1.1. subunit gene SCN1A with co-occurring familial hemiplegic migraine and epilepsy. *Cephalalgia* 2008; 29:308-313
- 224) Kruit MC, Launer LJ, Overbosch J, van Buchem MA, Ferrari MD. Iron accumulation in deep brain nuclei in migraine: a population-based magnetic resonance imaging study. *Cephalalgia* 2008;29:351-359
- 225) Barrett CF, Van den Maagdenberg AMJM, Frants RR, Ferrari MD. Familial Hemiplegic Migraine. *Advances in Genetics Vol 63* 2008;58-83.
- 226) Eikermann-Haerter, K, Dilekoz, E, Kudo C, Savitz SI, Waeber C, Baum MJ, Ferrari MD, Van den Maagdenberg AM, Moskowitz MA, Ayata C. Genetic and hormonal factors modulate spreading depression and transient hemiparesis in mouse models of familial hemiplegic migraine type 1. *J Clin Investigation.* 2009; Jan 1 (119): 99-109.
- 227) Liem MK, Lesnik Oberstein SAJ, Haan J, van der Neut IL, Ferrari MD, van Buchem MA, Middelkoop HAM, van der Grond J. MRI correlates of cognitive decline in CADASIL: A 7-year follow-up study. *Neurology* 2009; 72;143-148.
- 228) De Vries B, Mamsa H, Stam AH, Wan J, Bakker SLM, Vanmolkot KRJ, Haan J, Terwindt GM, Boon EMJ, Howard BD, Frants RR, Baloh RW, Ferrari MD, Jen JC, van den Maagdenberg AMJM. Episodic Ataxia associated with EAATI mutation C186S affecting glutamate reuptake. *Arch Neurol* 2009; 66(1)97-101
- 229) Bigal ME, Ferrari MD, Silberstein SD, Lipton RB, Goadsby PJ. Migraine in the Triptan Era: Lessons from epidemiology, pathophysiology, and clinical science. *Headache* 2009;49:S21-S33)
- 230) Goadsby PJ, Ferrari MD, Csanyi A, Olesen J, Mills JG. Randomized, double-blind, placebo-controlled, proof-of-concept study of the cortical spreading depression inhibiting agent tonabersat in migraine prophylaxis. *Cephalalgia* 2009;29:742-750
- 231) Vein AA, Koppen H, Haan J, Terwindt GM, Ferrari MD. Brief report. Space headache: a new secondary headache. *Cephalalgia* 2009;29:683-686
- 232) Tottene A, Conti R, Fabbro A, Vecchia D, Shapovalova M, Santello M, van den Maagdenberg AMJM, Ferrari MD, Pietrobon D. Enhanced excitatory transmission at cortical synapses as the basis for facilitated spreading depression in Cav2.1 knocking migraine mice. *Neuron* 2009;61:762-773
- 233) Wilbrink LA, Ferrari MD, Kruit MC, Haan J. Neuroimaging in trigeminal autonomic cephalalgias: when, how, and of what? *Curr Opin Neurol* 2009;22:247-253
- 234) Ho TW, Ferrari MD, Dodick DW, Kost J, Winner P. Migraine and olcegepant *Lancet* 2009;373:1003-1005

- 235) Eikermann-Haerter K, Baum MJ, Ferrari MD, van den Maagdenberg AM, Moskowitz MA, Ayata C. Androgenic suppression of spreading depression in familial hemiplegic migraine type 1 mutant mice. *Ann Neurol* 2009 Oct;66(4):564-8.
- 236) Goadsby PJ, Ferrari MD, Csanyi A, Olesen J, Mills JG; Tonabersat TON-01-05 Study Group. Randomized, double-blind, placebo-controlled, proof-of-concept study of the cortical spreading depression inhibiting agent tonabersat in migraine prophylaxis. *Cephalalgia* 2009 Jul;29(7):742-50.
- 237) Stam AH, Luijckx GJ, Poll-Thé BT, Ginjaar IB, Frants RR, Haan J, Ferrari MD, Terwindt GM, van den Maagdenberg AM. Early seizures and cerebral oedema after trivial head trauma associated with the CACNA1A S218L mutation. *J Neurol Neurosurg Psychiatry* 2009 Oct;80(10):1125-9.
- 238) Munts AG, van der Plas AA, Ferrari MD, Teepe-Twiss IM, Marinus J, van Hilten JJ. Efficacy and safety of a single intrathecal methylprednisolone bolus in chronic complex regional pain syndrome. *Eur J Pain* 2010 May;14(5):523-8. Epub 2009 Dec 16.
- 239) Koek MM, Bakels F, Engel W, van den Maagdenberg A, Ferrari MD, Coulier L, Hankemeier T. Metabolic profiling of ultrasmall sample volumes with GC/MS: from microliter to nanoliter samples. *Anal. Chem.* 2010;82:156-162.
- 240) Stam AH, de Vries B, Janssens AC, Vanmolkot KR, Aulchenko YS, Henneman P, Oostra BA, Frants RR, van den Maagdenberg AM, Ferrari MD, van Duijn CM, Terwindt GM. Shared genetic factors in migraine and depression: evidence from a genetic isolate. *Neurology* 2010 Jan 26;74(4):288-94.
- 241) van den Maagdenberg AM, Pizzorusso T, Kaja S, Terpolilli N, Shapovalova M, Hoebeek FE, Barrett CF, Gherardini L, van de Ven RC, Todorov B, Broos LA, Tottene A, Gao Z, Fodor M, De Zeeuw CI, Frants RR, Plesnila N, Plomp JJ, Pietrobon D, Ferrari MD. High cortical spreading depression susceptibility and migraine-associated symptoms in Ca(v)2.1 S218L mice. *Ann Neurol.* 2010 Jan;67(1):85-98.
- 242) de Vries B, Steup-Beekman GM, Haan J, Bollen EL, Luyendijk J, Frants RR, Terwindt GM, van Buchem MA, Huizinga TW, van den Maagdenberg AM, Ferrari MD. TREX1 gene variant in neuropsychiatric systemic lupus erythematosus. *Ann Rheum Dis.* 2010 Apr 13.
- 243) Inchauspe CG, Urbano FJ, Di Guilmi MN, Forsythe ID, Ferrari MD, Van den Maagdenberg AM, Uchitel OD. Gain of function in FHM-1 Ca(V)2.1 knock-in mice is related to the shape of the action potential. *J Neurophysiol.* 2010 Jul;104(1):291-9.
- 244) Ferrari MD, Färkkilä M, Reuter U, Pilgrim A, Davis C, Krauss M, Diener HC, European COL-144 Investigators. Acute treatment of migraine with the selective 5-HT_{1F} receptor agonist lasmiditan – A randomized proof-of-concept trial. *Cephalalgia* 2010 Oct;30(10):1170-8
- 245) Langford DJ, Bailey AL, Chanda ML, Clarke SE, Drummond TE, Echols S, Glick S, Ingrao J, Klassen-Ross T, Lacroix-Fralish ML, Matsumiya L, Sorge RE, Sotocinal SG, Tabaka JM, Wong D, van den Maagdenberg AM, Ferrari MD, Craig KD, Mogil JS. Coding of facial expressions of pain in the laboratory mouse. *Nature Methods.* 2010 Jun;7(6):447-9.
- 246) Tullo V, Allais G, Ferrari MD, Curone M, Mea E, Omboni S, Benedetto C, Zava D, Bussone G. Frovatriptan versus zolmitriptan for the acute treatment of migraine: a double-blind, randomized, multicenter, Italian study. *Neurol Sci.* 2010 Jun;31 Suppl 1:S51-4
- 247) Klychnikov OI, Li KW, Sidorov IA, Loos M, Spijker S, Broos LA, Frants RR, Ferrari MD, Mayboroda OA, Deelder AM, Smit AB, Van den Maagdenberg. Quantitative cortical synapse proteomics of a transgenic migraine mouse model with mutated Ca(V)2.1 calcium channels. *Proteomics.* 2010 Jul;10(13):2531-5
- 248) Nair A, Simonetti M, Birsa N, Ferrari MD, Van den Maagdenberg AMJM, Giniatullin R, Nistri A, Fabbretti E. Familial hemiplegic migraine Cav2.1 channel mutation R192Q enhances ATP-gated P2X₃ receptor activity of mouse sensory ganglion neurons mediating trigeminal pain. *Molecular Pain* 2010;6:48.
- 249) Kaja S, Van de Ven RC, Broos LA, Frants RR, Ferrari MD, Van den Maagdenberg AM, Plomp JJ. Severe and progressive neurotransmitter release aberrations in familial hemiplegic migraine type 1 CACNA1A S218L knock-in-mice. *J Neurophysiol* 2010 Sep;104(3):1445-55.
- 250) Arkink EB, Van Buchem MA, Haan J, Ferrari MD, Kruit MC. An early 18th-century case description of cluster headache. *Cephalalgia* 2010 Nov;30(11):1392-5.
- 251) Liem MK, Van der Grond J, Versluis MJ, Haan J, Webb AG, Ferrari MD, Van Buchem MA, Lesnik Oberstein SAJ. Lenticulostriate arterial lumina are normal in cerebral autosomal-dominant arteriopathy with subcortical infarcts and leukoencephalopathy. A high-field in vivo MRI study. *Stroke* 2010 Dec; 41(12):2812-6.
- 252) Antilla V, Stefansson H, Kallela M, Todt U, Terwindt GM, Calafato MS, Nyholt DR, Dimas AS, Freilinger T, Müller-Myhsok B, Artto V, Inouye M, Alakurtti K, Kaunisto MA, Hämäläinen E, De Vries B, Stam AH, Weller CM, Heinze A, Heinze-Kuhn K, Goebel I, Borck G, Göbel H, Steinberg S, Wolf C, Björnsson A, Gudmundsson G, Kirchmann M, Hauge A, Werge T, Schoenen J, Eriksson JG,

- Hagen K, Stovner L, Wichmann H-E, Meitinger T, Alexander M, Moebus S, Schreiber S, Aulchenko YS, Breteler MMB, Uitterlinden AG, Hofman A, Van Duijn CM, Tikka-Kleemola P, Vepsäläinen, Lucae S, Tozzi F, Muglia P, Barrett J, Kaprio J, Färkkilä M, Peltonen L, Stefansson K, Zwart J-A, Ferrari MD, Olesen J, Daly M, Wessman M, Van den Maagdenberg AMJM, Dichgans M, Kubisch C, Dermitzakis ET, Frants RR, Palotie A. Genome-wide association study of migraine implicates a common variant on 8q22.1 regulating the expression of astrocyte elevated gene-1 (AEG-1). *Nat Genetics* 2010 Oct;42(10):869-73.
- 253) Stam AH, Louter MA, Haan J, De Vries B, Van den Maagdenberg AM, Frants RR, Ferrari MD, Terwindt GM. A long-term follow-up study of 18 patients with sporadic hemiplegic migraine. *Cephalalgia* 2011 Jan;31(2):199-205.
- 254) Ho TW, Olesen J, Dodick DW, Kost J, Lines C, Ferrari MD. Antimigraine efficacy of telcagepant based on patient's historical triptan response. *Headache* 2011 Jan;51(1):64-72.
- 255) Eikermann-Haerter K, Yuzawa I, Qin T, Wang Y, Baek K, Kim YR, Hoffman U, Dilekoz E, Waerber C, Ferrari MD, Van den Maagdenberg AM, Moskowitz MA, Ayata C. Enhanced subcortical spreading depression in familial hemiplegic migraine type 1 mutant mice. *J Neurosci* 2011 Apr 13;31(15):5755-5763.
- 256) Savi L, Omboni S, Lisotto C, Zanchin G, Ferrari MD, Zava D, Pinessi L. Efficacy of frovatriptan in the acute treatment of menstrually related migraine: analysis of a double-blind, randomized, cross-over, multicenter, Italian, comparative study versus rizatriptan. *J Headache Pain* 2011 Aug;12:609-615
- 257) Chasman DI, Schürks M, Anttila V, de Vries B, Schminke U, Launer LJ, Terwindt GM, van den Maagdenberg AMJM, Fendrich K, Völzke H, Ernst F, Griffiths LR, Buring JE, Kallela M, Freilinger T, Kubisch C, Ridker PM, Palotie A, Ferrari MD, Hoffmann W, Zee RYL, Kurth T. Genome-wide association study reveals three susceptibility loci for common migraine in the general population. *Nat Genet* 2011 Jun 12;43(7): 695-8.
- 258) Dekker F, Wiendels Nj, de Valk V, van der Vliet C, Neven AK, Assendelft W, Ferrari M. Triptan overuse in the Dutch general population: A nationwide pharmaco-epidemiology database analysis in 6.7 million people. *Cephalalgia*. 2011 Jun;31(8):943-52. Epub 2011 May 18. PubMed PMID: 21593190.
- 259) Haan J, Ferrari MD. Picasso's migraine: Illusory cubist splitting or illusion? *Cephalalgia*. 2011 May 13. [Epub ahead of print] PubMed PMID: 21571758.
- 260) Ligthart L, de Vries B, Smith AV, Ikram MA, Amin N, Hottenga JJ, Koelewijn SC, Kattenberg VM, de Moor MH, Janssens AC, Aulchenko YS, Oostra BA, de Geus EJ, Smit JH, Zitman FG, Uitterlinden AG, Hofman A, Willemsen G, Nyholt DR, Montgomery GW, Terwindt GM, Gudnason V, Penninx BW, Breteler M, Ferrari MD, Launer LJ, van Duijn, CM, van den Maagdenberg AM, Boomsma DI. Meta-analysis of genome-wide association for migraine in six population-based European cohorts. *Eur J Hum Genet*. 2011 Mar 30. [Epub ahead of print] PubMed PMID: 21448238.
- 261) Bartolini M, Giamberardino MA, Lisotto C, Martelletti P, Moscato D, Panascia B, Savi L, Pini LA, Sances G, Santoro P, Zanchin G, Omboni S, Ferrari MD, Brighina F, Fierro B. A double-blind, randomized, multicenter, Italian study of frovatriptan versus almotriptan for the acute treatment of migraine. *J Headache Pain*. 2011 Jun;12(3):361-8. Epub 2011 Mar 25. PubMed PMID: 21437714.
- 262) Koppen H, Palm-Meinders I, Kruit M, Lim V, Nugroho A, Westhof I, Terwindt G, van Buchem M, Ferrari M, Hommel B. The impact of a migraine attack and its after-effects on perceptual organization, attention, and working memory. *Cephalalgia*. 2011 Oct;31(14):1419-27. Epub 2011 Aug 4.
- 263) van Oosterhout WP, Weller CM, Stam AH, Bakels F, Stijnen T, Ferrari MD, Terwindt GM. Validation of the web-based LUMINA questionnaire for recruiting large cohorts of migraineurs. *Cephalalgia*. 2011 Oct;31(13):1359-67
- 264) Savi L, Omboni S, Lisotto C, Zanchin G, Ferrari MD, Zava D, Pinessi L. A double-blind, randomized, multicenter, Italian study of frovatriptan versus rizatriptan for the acute treatment of migraine. *J Headache Pain*. 2011 Apr;12(2):219-26.
- 265) Mathew R, Andreou AP, Chami L, Bergerot A, van den Maagdenberg AM, Ferrari MD, Goadsby PJ. Immunohistochemical characterization of calcitonin gene-related peptide in the trigeminal system of the familial hemiplegic migraine 1 knock-in mouse. *Cephalalgia*. 2011 Oct;31(13):1368-80
- 266) Arkink EB, Bleeker EJ, Schmitz N, Schoonman GG, Wu O, Ferrari MD, van Buchem MA, van Osch MJ, Kruit MC. Cerebral perfusion changes in migraineurs: a voxelwise comparison of interictal dynamic susceptibility contrast MRI measurements. *Cephalalgia*. 2012 Mar;32(4):279-88.
- 267) Freilinger T, Anttila V, de Vries B, Malik R, Kallela M, Terwindt GM, Pozo-Rosich P, Winsvold B, Nyholt DR, van Oosterhout WP, Artto V, Todt U, Hämäläinen E, Fernández-Morales J, Louter MA, Kaunisto MA, Schoenen J, Raitakari O, Lehtimäki T, Vila-Pueyo M, Göbel H, Wichmann E, Sintas C, Uitterlinden AG, Hofman A, Rivadeneira F, Heinze A, Tronvik E, van Duijn CM, Kaprio J, Cormand B, Wessman M, Frants RR, Meitinger T, Müller-Myhsok B, Zwart JA, Färkkilä M, Macaya A, Ferrari MD,

- Kubisch C, Palotie A, Dichgans M, van den Maagdenberg AM; International Headache Genetics Consortium. Genome-wide association analysis identifies susceptibility loci for migraine without aura. *Nat Genet.* 2012 Jun 10;44(7):777-82
- 268) Dekker F, Knuistingh Neven A, Andriess B, Kernick D, Reis R, Ferrari MD, Assendelft WJ. Prophylactic treatment of migraine; the patient's view, a qualitative study. *BMC Fam Pract.* 2012 Mar 9;13:13.
- 269) Dekker F, Neven AK, Andriess B, Kernick D, Ferrari MD, Assendelft WJ. Prophylactic treatment of migraine by GPs: a qualitative study. *Br J Gen Pract.* 2012 Apr;62(597):e268-74
- 270) Allais G, Tullo V, Omboni S, Benedetto C, Sances G, Zava D, Ferrari MD, Bussone G. Efficacy of frovatriptan versus other triptans in the acute treatment of menstrual migraine: pooled analysis of three double-blind, randomized, crossover, multicenter studies. *Neurol Sci.* 2012 May;33 Suppl 1:S65-9.
- 271) Tullo V, Allais G, Curone M, Ferrari MD, Omboni S, Benedetto C, Colombo B, Zava D, Bussone G. Frovatriptan versus zolmitriptan for the acute treatment of migraine with aura: a subgroup analysis of a double-blind, randomized, multicenter, Italian study. *Neurol Sci.* 2012 May;33 Suppl 1:S61-4
- 272) Bartolini M, Giamberardino MA, Lisotto C, Martelletti P, Moscato D, Panascia B, Savi L, Pini LA, Sances G, Santoro P, Zanchin G, Omboni S, Ferrari MD, Fierro B, Brighina F. Frovatriptan versus almotriptan for acute treatment of menstrual migraine: analysis of a double-blind, randomized, crossover, multicenter, Italian, comparative study. *J Headache Pain.* 2012 Jul;13(5):401-6
- 273) Koppen H, Vis JC, Gooiker DJ, Knudsen S, Bouma BJ, Tijssen JG, de Mol BA, Mulder BJ, Russell MB, Ferrari MD. Aortic root pathology in Marfan syndrome increases the risk of migraine with aura. *Cephalalgia.* 2012 Apr;32(6):467-72.
- 274) Koppen H, Palm-Meinders IH, Ferrari MD. Right-to-left shunts and micro-embolization in migraine. *Curr Opin Neurol.* 2012 Jun;25(3):263-8.
- 275) Smelt AFH, Blom JW, Dekker F, Van den Akker M, Knuistingh Neven A, Zitman FG, Ferrari MD, Assendelft P. A proactive approach to migraine in primary care: a pragmatic randomized controlled trial. *CMAJ* 2012. DOI:10.1503/CMAJ.110908
- 276) Eikermann-Haerter K, Hyun Lee J, Yuzawa I, Liu Ch H, Zhou Z, Kyoung Shin H, Zheng Y, Kurth Th, Waeber Ch, Ferrari MD, van den Maagdenberg AMJM, Moskowitz MA, Ayata C. Migraine mutations increase stroke vulnerability by facilitating ischemic depolarizations. *Circulation* 2012, 125:335-345.
- 277) Liem MK, Lesnik Oberstein SAJ, Versluis MJ, et al. 7 T MRI reveals diffuse iron deposition in putamen and caudate nucleus in CADASIL. *JNMP* August 25, 2012, doi:10.1136/jnnp-2012-302545
- 278) Jones EA, Shyti R, van Zeijl RJ, van Heiningen SH, Ferrari MD, Deelder AM, Tolner EA, van den Maagdenberg AM, McDonnell LA. Imaging mass spectrometry to visualize biomolecule distributions in mouse brain tissue following hemispheric cortical spreading depression. *J Proteomics.* 2012 Aug 30;75(16):5027-35. doi: 10.1016/j.jprot.2012.06.025.
- 279) Heinzen EL, Swoboda KJ, Hitomi Y, Gurrieri F, Nicole S, de Vries B, et al. De novo mutations in ATP1A3 cause alternating hemiplegia of childhood. *Nature Genetics* September 2012, vol 44:9:1030-1035
- 280) Gao Z, Todorov B, Barrett CF, van Dorp S, Ferrari MD, van den Maagdenberg AM, De Zeeuw CI, Hoebeek FE. Cerebellar ataxia by enhanced Ca(V)2.1 currents is alleviated by Ca2+-dependent K+-channel activators in Cacna1a(S218L) mutant mice. *J Neurosci.* 2012 Oct 31;32(44):15533-46. doi: 10.1523/JNEUROSCI.2454-12.2012.
- 281) Carpay JA, Ferrari MD. The adverse effects of antiepileptic drugs differ in patients with migraine. *Lancet Neurology* November 2012; 11(11):935
- 282) Ferrari MD, Kies D, Schoonman G. Posttraumatische migraine: Absence of evidence is not evidence of absence'. *GA Vscoop* jaargang 16, nummer 3, December 2012 67-73
- 283) Palm-Meinders IH, Koppen H, Terwindt GM, Ferrari MD*, Kruit MC*. Structural Brain Changes in Migraine. *JAMA* 2012. November 14; Vol 308, No.18 1889-1897
- 284) Inchauspe CG, Urbano FJ, Di Guilmi MN, Ferrari MD, van den Maagdenberg AM, Forsythe ID, Uchitel OD. Presynaptic CaV2.1 calcium channels carrying familial hemiplegic migraine mutation R192Q allow faster recovery from synaptic depression in mouse calyx of Held. *J Neurophysiol.* 2012 Dec;108(11):2967-76. doi: 10.1152/jn.01183.2011.
- 285) Ramautar R, Shyti R, Schoenmaker B, de Groote L, Derks RJ, Ferrari MD, van den Maagdenberg AM, Deelder AM, Mayboroda OA. Metabolic profiling of mouse cerebrospinal fluid by sheathless CE-MS. *Anal Bioanal Chem.* 2012 Dec;404(10):2895-900. doi: 10.1007/s00216-012-6431-7.
- 286) Deboer T, van Diepen HC, Ferrari MD, Van den Maagdenberg AMJM, Meijer JH. Reduced sleep and low adenosinergic sensitivity in Cacna1a R192Q mutant mice. *Sleep* 2012 Volume: 36 Issue:1 Pages: 127-136 DOI: 10.5665/sleep.2316 JAN 1 2013
- 287) Franceschini A, Vilotti S, Ferrari MD, van den Maagdenberg AM, Nistri A, Fabbretti E. TNF α levels and macrophages expression reflect an inflammatory potential of trigeminal ganglia in a mouse model of

- familial hemiplegic migraine. *PLoS One*. 2013;8(1):e52394. doi: 10.1371/journal.pone.0052394.
- 288) Ferrari MD. Headache: the changing migraine brain. *Lancet Neurology* January 2013, vol 12:6-8
- 289) Eising E, Datson NA, Van den Maagdenberg AMJM, Ferrari MD. Epigenetic mechanisms in migraine: a promising avenue? *BMC Medicine* 2013, 11:26
- 290) Van Oosterhout WPJ, Van der Plas AA, Van Zwet EW, Zielman R, Ferrari MD, Terwindt GM. Postdural puncture headache in migraineurs and nonheadache subjects. *Neurology*. 2013 Mar 5;80(10):941-8. doi: 10.1212/WNL.0b013e3182840bf6
- 291) Stam AH, Weller CM, Janssens ACJW, Aulchenko YS, Oostra BA, Frants RR, Van den Maagdenberg AMJM, Ferrari MD, van Duijn CM, Terwindt GM. Migraine is not associated with enhanced atherosclerosis. *Cephalalgia*. 2013 Mar;33(4):228-35. doi: 10.1177/0333102412466966
- 292) Hullugundi SK, Ferrari MD, van den Maagdenberg AM, Nistri A. The mechanism of functional up-regulation of P2X3 receptors of trigeminal sensory neurons in a genetic mouse model of familial hemiplegic migraine type 1 (FHM-1). *PLoS One*. 2013;8(4):e60677. doi: 10.1371/journal.pone.0060677.
- 293) Chanda ML, Tuttle AH, Baran I, Atlin C, Guindi D, Hathaway G, Israelian N, Levenstadt J, Low D, Macrae L, O'Shea L, Silver A, Zendegui E, Mariette Lenselink A, Spijker S, Ferrari MD, van den Maagdenberg AM, Mogil JS. Behavioral evidence for photophobia and stress-related ipsilateral head pain in transgenic Cacna1a mutant mice. *Pain*. 2013 Aug;154(8):1254-62. doi: 10.1016/j.pain.2013.03.038.
- 294) Kruit MC, Thijs RD, Ferrari MD, Launer LJ, Van Buchem MA, van Dijk JG. Syncope and orthostatic intolerance increase risk of brain lesions in migraineurs and controls. *Neurology*. 2013 May 21;80(21):1958-65. doi: 10.1212/WNL.0b013e318293e1c7.
- 295) Pelzer N, Stam AH, Haan J, Ferrari MD, Terwindt GM. Familial and sporadic hemiplegic migraine: diagnosis and treatment. *Curr Treat Options Neurol* 2013 Feb;15(1):13-27. doi: 10.1007/s11940-012-0208-3.
- 296) Wilbrink LA, Cheung C, Weller CM, Ferrari MD, Haan J. Aurasymptomen bij clusterhoofdpijn. *Ned Tijdschr Geneeskd*. 2013;157:A5306P
- 297) Anttila V, Winsvold BS, Gormley P, Kurth T, Bettella F, McMahon G, Kallela M, Malik R, de Vries B, Terwindt G, Medland SE, Todt U, McArdle WL, Quaye L, Koironen M, Ikram MA, Lehtimäki T, Stam AH, Ligthart L, Wedenoja J, Dunham I, Neale BM, Palta P, Hamalainen E, Schürks M, Rose LM, Buring JE, Ridker PM, Steinberg S, Stefansson H, Jakobsson F, Lawlor DA, Evans DM, Ring SM, Färkkilä M, Artto V, Kaunisto MA, Freilinger T, Schoonen J, Frants RR, Pelzer N, Weller CM, Zielman R, Heath AC, Madden PA, Montgomery GW, Martin NG, Borck G, Göbel H, Heinze A, Heinze-Kuhn K, Williams FM, Hartikainen AL, Pouta A, van den Ende J, Uitterlinden AG, Hofman A, Amin N, Hottenga JJ, Vink JM, Heikkilä K, Alexander M, Muller-Myhsok B, Schreiber S, Meitinger T, Wichmann HE, Aromaa A, Eriksson JG, Traynor BJ, Trabzuni D, Rossin E, Lage K, Jacobs SB, Gibbs JR, Birney E, Kaprio J, Penninx BW, Boomsma DI, van Duijn C, Raitakari O, Jarvelin MR, Zwart JA, Cherkas L, Strachan DP, Kubisch C, Ferrari MD, van den Maagdenberg AM, Dichgans M, Wessman M, Smith GD, Stefansson K, Daly MJ, Nyholt DR, Chasman DI, Palotie A; North American Brain Expression Consortium; UK Brain Expression Consortium; International Headache Genetics Consortium. Genome-wide meta-analysis identifies new susceptibility loci for migraine. *Nature Genetics*. 2013 Aug;45(8):912-7. doi: 10.1038/ng.2676
- 298) Scheffer M, van den Berg A & Ferrari MD. Migraine strikes as neuronal excitability reaches a tipping point. *Plos One*. 2013 Aug 29;8(8):e72514. doi: 10.1371/journal.pone.0072514. eCollection 2013.
- 299) Pelzer N, de Vries B, Boon EM, Kruit MC, Haan J, Ferrari MD, van den Maagdenberg AM, Terwindt GM. Heterozygous TREX1 mutations in early-onset cerebrovascular disease. *J Neurol*. 2013 Aug;260(8):2188-90. doi: 10.1007/s00415-013-7050-8.
- 300) Wilbrink LA, Weller CM, Cheung C, Stijnen T, Haan J, Ferrari MD, Terwindt GM. Stepwise web-based questionnaires for diagnosing cluster headache: LUCA and QATCH. *Cephalalgia*. 2013 Aug;33(11):924-31. doi: 10.1177/0333102413479835.
- 301) Maino A, Algra A, Koudstaal PJ, van Zwet EW, Ferrari MD, Wermer MJ; LiLAC Study Group. Concomitant headache influences long-term prognosis after acute cerebral ischemia of noncardioembolic origin. *Stroke*. 2013 Sep;44(9):2446-50. doi: 10.1161/STROKEAHA.113.002217.
- 302) Wilbrink LA, Weller CM, Cheung C, Haan J, Ferrari MD. Cluster-tic syndrome: a cross-sectional study of cluster headache patients. *Headache*. 2013 Sep;53(8):1334-40. doi: 10.1111/head.12161.
- 303) Dekker F, Dieleman JP, Neven AK, Ferrari MD, Assendelft WJ. Preventive treatment for migraine in primary care, a population-based study in the Netherlands. *Cephalalgia*. 2013 Oct;33(14):1170-8. doi: 10.1177/0333102413490343.
- 304) Wilbrink LA, Teernstra OP, Haan J, van Zwet EW, Evers SM, Spincemaille GH, Veltink PH, Mulleners W, Brand R, Huygen FJ, Jensen RH, Paemeleire K, Goadsby PJ, Visser-Vandewalle V, Ferrari MD.

- Occipital nerve stimulation in medically intractable, chronic cluster headache. The ICON study: rationale and protocol of a randomised trial. *Cephalalgia*. 2013 Nov;33(15):1238-47. doi: 10.1177/0333102413490351.
- 305) Louter MA, Bosker JE, van Oosterhout WP, van Zwet EW, Zitman FG, Ferrari MD, Terwindt GM. Cutaneous allodynia as a predictor of migraine chronification. *Brain*. 2013 Nov;136(Pt 11):3489-96. doi: 10.1093/brain/awt251.
- 306) Gnanasekaran A, Bele T, Hullugundi S, Simonetti M, Ferrari MD, van den Maagdenberg AM, Nistri A, Fabbretti E. Mutated CaV2.1 channels dysregulate CASK/P2X3 signaling in mouse trigeminal sensory neurons of R192Q Cacna1a knock-in mice. *Mol Pain*. 2013 Dec 2;9:62. doi: 10.1186/1744-8069-9-62.
- 307) Smelt AF, Louter MA, Kies DA, Blom JW, Terwindt GM, van der Heijden GJ, De Gucht V, Ferrari MD, Assendelft WJ. What do patients consider to be the most important outcomes for effectiveness studies on migraine treatment? Results of a delphi study. *PLoS One*. 2014 Jun 16;9(6):e98933. doi: 10.1371/journal.pone.0098933. eCollection 2014.
- 308) Smelt AF, Assendelft WJ, Terwee CB, Ferrari MD, Blom JW. What is a clinically relevant change on the HIT-6 questionnaire? An estimation in a primary-care population of migraine patients. *Cephalalgia*. 2014 Jan;34(1):29-36. doi: 10.1177/0333102413497599.
- 309) Pelzer N, Stam AH, Carpay JA, Vries BD, van den Maagdenberg AM, Ferrari MD, Haan J, Terwindt GM. Familial hemiplegic migraine treated by sodium valproate and lamotrigine. *Cephalalgia*. 2014 Aug;34(9):708-711. Epub 2014 Jan 17.
- 310) de Vries B, Eising E, Broos LA, Koelewijn SC, Todorov B, Frants RR, Boer JM, Ferrari MD, Hoen PA, van den Maagdenberg AM. RNA expression profiling in brains of familial hemiplegic migraine type 1 knock-in mice. *Cephalalgia*. 2014 Mar;34(3):174-82. doi: 10.1177/0333102413502736
- 311) Zielman R, Teeuwisse W, Bakels F, Van der Grond J, Webb A, van Buchem M, Ferrari M, Kruit M, Terwindt G. Biochemical changes in the brain of hemiplegic migraine patients measured with 7 tesla 1H-MRS. *Cephalalgia*. 2014 Oct;34(12):959-967. Epub 2014 Mar 20.
- 312) Park J, Moon H, Akerman S, Holland PR, Lasalandra MP, Andreou AP, Ferrari MD, van den Maagdenberg AM, Goadsby PJ. Differential trigeminovascular nociceptive responses in the thalamus in the familial hemiplegic migraine 1 knock-in mouse: a Fos protein study. *Neurobiol Dis*. 2014 Apr;64:1-7. doi: 10.1016/j.nbd.2013.12.004
- 313) Weller CM, Pelzer N, de Vries B, López MA, De Fàbregues O, Pascual J, Arroyo MA, Koelewijn SC, Stam AH, Haan J, Ferrari MD, Terwindt GM, van den Maagdenberg AM. Two novel SCN1A mutations identified in families with familial hemiplegic migraine. *Cephalalgia*. 2014 Nov;34(13):1062-1069. Epub 2014 Apr 4.
- 314) Hullugundi SK, Ansuini A, Ferrari MD, van den Maagdenberg AM, Nistri A. A hyperexcitability phenotype in mouse trigeminal sensory neurons expressing the R192Q Cacna1a missense mutation of familial hemiplegic migraine type-1. *Neuroscience*. 2014 Apr 25;266:244-54. doi: 10.1016/j.neuroscience.2014.02.020.
- 315) Louter M, Wardenaar K, Veen G, Oosterhout WV, Zitman F, Ferrari M, Terwindt G. Allodynia is associated with a higher prevalence of depression in migraine patients. *Cephalalgia*. 2014 Dec;34(14):1187-1192. Epub 2014 Apr 25.
- 316) Weller CM, Leen WG, Neville BG, Duncan JS, Vries BD, Geilenkirchen MA, Haan J, Kamsteeg EJ, Ferrari MD, Maagdenberg AM, Willemsen MA, Scheffer H, Terwindt GM. A novel SLC2A1 mutation linking hemiplegic migraine with alternating hemiplegia of childhood. *Cephalalgia*. 2015 Jan;35(1):10-5. doi: 10.1177/0333102414532379. Epub 2014 May 13
- 317) Di Guilmi MN, Wang T, Inchauspe CG, Forsythe ID, Ferrari MD, van den Maagdenberg AM, Borst JG, Uchtel OD. Synaptic Gain-of-Function Effects of Mutant Cav2.1 Channels in a Mouse Model of Familial Hemiplegic Migraine Are Due to Increased Basal [Ca²⁺]_i. *J Neurosci*. 2014 May 21;34(21):7047-58. doi: 10.1523/JNEUROSCI.2526-13.2014.
- 318) van Oosterhout WP, Terwindt G, Vein A, Ferrari M. Space headache on Earth: Head-down-tilted bed rest studies simulating outer-space microgravity. *Cephalalgia*. 2015 Apr;35(4):335-343. pii: 0333102414536058. Epub 2014 May 29.
- 319) Pelzer N, de Vries B, Kamphorst JT, Vijfhuizen LS, Ferrari MD, Haan J, van den Maagdenberg AM, Terwindt GM. PRRT2 and hemiplegic migraine: A complex association. *Neurology*. 2014 Jul 15;83(3):288-90. doi: 10.1212/WNL.0000000000000590. Epub 2014 Jun 13.
- 320) Louter MA, Fernandez-Morales J, de Vries B, Winsvold B, Anttila V, Fernandez-Cadenas I, Vila-Pueyo M, Sintas C, van Duijn CM, Cormand B, Álvarez-Sabin J, Montaner J, Ferrari MD, van den Maagdenberg A, Palotie A, Zwart JA, Macaya A, Terwindt GM, Pozo-Rosich P. Candidate-gene association study searching for genetic factors involved in migraine chronification. *Cephalalgia*. 2015 May;35(6):500-7. doi: 10.1177/0333102414547141. Epub 2014 Aug 28.

- 321) Nyholt DR; International Headache Genetics Consortium, Anttila V, Winsvold BS, Kurth T, Stefansson H, Kallela M, Malik R, Vries Bd, Terwindt GM, Ikram MA, Stam AH, Ligthart L, Freilinger T, Alexander M, Muller-Myhsok B, Schreiber S, Meitinger T, Aromaa A, Eriksson JG, Kaprio J, Boomsma DI, Duijn Cv, Raitakari O, Järvelin MR, Zwart JA, Quaye L, Strachan DP, Kubisch C, Ferrari MD, van den Maagdenberg AM, Dichgans M, Wessman M, Smith GD, Stefansson K, Chasman DI, Palotie A. Concordance of genetic risk across migraine subgroups: Impact on current and future genetic association studies. *Cephalalgia*. 2015 May;35(6):489-99. doi: 10.1177/0333102414547784. Epub 2014 Sep 1.
- 322) Dahlem MA, Kurths J, Ferrari MD, Aihara K, Scheffer M, May A. Understanding migraine using dynamic network biomarkers. *Cephalalgia*. 2015 Jun;35(7):627-30. doi: 10.1177/0333102414550108. Epub 2014 Sep 16.
- 323) van Oosterhout W, Schoonman G, Garrelds I, Danser A, Chan K, Terwindt G, Ferrari M, MaassenVanDenBrink A. A human capsaicin model to quantitatively assess salivary CGRP secretion. *Cephalalgia*. 2015 Jul;35(8):675-82. doi: 10.1177/0333102414553824. Epub 2014 Nov 3.
- 324) Weller CM, Wilbrink LA, Houwing-Duistermaat JJ, Koelewijn SC, Vijfhuizen LS, Haan J, Ferrari MD, Terwindt GM, van den Maagdenberg AM, de Vries B. Cluster headache and the hypocretin receptor 2 reconsidered: A genetic association study and meta-analysis. *Cephalalgia*. 2015 Aug;35(9):741-7. doi: 10.1177/0333102414557839. Epub 2014 Nov 14.
- 325) Eikermann-Haerter K, Lee JH, Yalcin N, Yu ES, Daneshmand A, Wei Y, Zheng Y, Can A, Sengul B, Ferrari MD, van den Maagdenberg AM, Ayata C. Migraine prophylaxis, ischemic depolarizations, and stroke outcomes in mice. *Stroke*. 2015 Jan;46(1):229-36. doi: 10.1161/STROKEAHA.114.006982. Epub 2014 Nov 25.
- 326) Shyti R, Eikermann-Haerter K, van Heiningen SH, Meijer OC, Ayata C, Joëls M, Ferrari MD, van den Maagdenberg AM, Tolner EA. Stress hormone corticosterone enhances susceptibility to cortical spreading depression in familial hemiplegic migraine type 1 mutant mice. *Exp Neurol*. 2015 Jan;263:214-20. doi: 10.1016/j.expneurol.2014.10.015. Epub 2014 Oct 29.
- 327) Jacobsen KK, Nievergelt CM, Zayats T, Greenwood TA, Anttila V, Akiskal HS; BiGS Consortium; IHG Consortium; BiGS Consortium Co-Authors include;; IHG Consortium Co-Authors include.; Haavik J, Bernt Fasmer O, Kelsoe JR, Johansson S, Oedegaard KJ; BiGS Consortium Co-Authors include; IHG Consortium Co-Authors include. Genome wide association study identifies variants in NBEA associated with migraine in bipolar disorder. *J Affect Disord*. 2015 Feb;172:453-61. doi: 10.1016/j.jad.2014.10.004. Epub 2014 Oct 12.
- 328) Inchauspe CG, Pilati N, Di Guilmi MN, Urbano FJ, Ferrari MD, van den Maagdenberg AM, Forsythe ID, Uchitel OD. Familial hemiplegic migraine type-1 mutated cav2.1 calcium channels alter inhibitory and excitatory synaptic transmission in the lateral superior olive of mice. *Hear Res*. 2015 Jan;319:56-68. doi: 10.1016/j.heares.2014.11.006. Epub 2014 Dec 4.
- 329) Keezer MR, Bauer PR, Ferrari MD, Sander JW. The comorbid relationship between migraine and epilepsy: a systematic review and meta-analysis. *Eur J Neurol*. 2015 Jul;22(7):1038-1047. doi: 10.1111/ene.12612. Epub 2014 Dec 11.
- 330) Ibrahimi K, van Oosterhout WP, van Dorp W, Danser AH, Garrelds IM, Kushner SA, Lesaffre EM, Terwindt GM, Ferrari MD, van den Meiracker AH, MaassenVanDenBrink A. Reduced trigeminovascular cyclicality in patients with menstrually related migraine. *Neurology*. 2015 Jan 13;84(2):125-31. doi: 10.1212/WNL.0000000000001142. Epub 2014 Dec 10.
- 331) de Vries B, Anttila V, Freilinger T, Wessman M, Kaunisto MA, Kallela M, Artto V, Vijfhuizen LS, Göbel H, Dichgans M, Kubisch C, Ferrari MD, Palotie A, Terwindt GM, van den Maagdenberg AM; on behalf of the International Headache Genetics Consortium. Systematic re-evaluation of genes from candidate gene association studies in migraine using a large genome-wide association data set. *Cephalalgia*. 2016 Jun;36(7):604-14. doi: 10.1177/0333102414566820. Epub 2015 Jan 29.
- 332) Ferrari MD, Klever RR, Terwindt GM, Ayata C, van den Maagdenberg AM. Migraine pathophysiology: lessons from mouse models and human genetics. *Lancet Neurol*. 2015 Jan; 14(1):65-80. doi: 10.1016/S1474-4422(14)70220-0.
- 333) Dilekoz E, Houben T, Eikermann-Haerter K, Balkaya M, Lenselink AM, Whalen MJ, Spijker S, Ferrari MD, van den Maagdenberg AM, Ayata C. Migraine mutations impair hippocampal learning despite enhanced long-term potentiation. *J Neurosci*. 2015 Feb 25;35(8):3397-402. doi: 10.1523/JNEUROSCI.2630-14.2015.
- 334) Tolner EA, Houben T, Terwindt GM, de Vries B, Ferrari MD, van den Maagdenberg AM. From migraine genes to mechanisms. *Pain*. 2015 Apr;156 Suppl 1:S64-74. doi: 10.1097/01.j.pain.0000460346.00213.16.
- 335) Shyti R, Kohler I, Schoenmaker B, Derks RJ, Ferrari MD, Tolner EA, Mayboroda OA, van den Maagdenberg AM. Plasma metabolic profiling after cortical spreading depression in a transgenic mouse

- model of hemiplegic migraine by capillary electrophoresis - mass spectrometry. *Mol Biosyst*. 2015 Apr 21;11(5):1462-71. doi: 10.1039/c5mb00049a.
- 336) Carreira RJ, Shyti R, Balluff B, Abdelmoula WM, van Heiningen SH, van Zeijl RJ, Dijkstra J, Ferrari MD, Tolner EA, McDonnell LA, van den Maagdenberg AM. Large-scale mass spectrometry imaging investigation of consequences of cortical spreading depression in a transgenic mouse model of migraine. *J Am Soc Mass Spectrom*. 2015 Jun;26(6):853-61. doi: 10.1007/s13361-015-1136-8. Epub 2015 Apr 16.
- 337) Pijpers JA, Louter MA, de Bruin ME, van Zwet EW, Zitman FG, Ferrari MD, Terwindt GM. Detoxification in medication-overuse headache, a retrospective controlled follow-up study: Does care by a headache nurse lead to cure? *Cephalalgia*. 2016 Feb;36(2):122-30. doi: 10.1177/0333102415583146. Epub 2015 Apr 22.
- 338) Ho TW, Ho AP, Ge YJ, Assaid C, Gottwald R, MacGregor EA, Mannix LK, van Oosterhout WP, Koppenhaver J, Lines C, Ferrari MD, Michelson D. Randomized controlled trial of the CGRP receptor antagonist telcagepant for prevention of headache in women with perimenstrual migraine. *Cephalalgia*. 2016 Feb;36(2):148-61. doi: 10.1177/0333102415584308. Epub 2015 Apr 29.
- 339) Malik R, Freilinger T, Winsvold BS, Anttila V, Vander Heiden J, Traylor M, de Vries B, Holliday EG, Terwindt GM, Sturm J, Bis JC, Hopewell JC, Ferrari MD, Rannikmae K, Wessman M, Kallela M, Kubisch C, Fornage M, Meschia JF, Lehtimäki T, Sudlow C, Clarke R, Chasman DI, Mitchell BD, Maguire J, Kaprio J, Farrall M, Raitakari OT, Kurth T, Ikram MA, Reiner AP, Longstreth WT Jr, Rothwell PM, Strachan DP, Sharma P, Seshadri S, Quaye L, Cherkas L, Schürks M, Rosand J, Ligthart L, Boncoraglio GB, Davey Smith G, van Duijn CM, Stefansson K, Worrall BB, Nyholt DR, Markus HS, van den Maagdenberg AM, Cotsapas C, Zwart JA, Palotie A; International Headache Genetics Consortium, Dichgans M; METASTROKE Collaboration of the International Stroke Genetics Consortium. Shared genetic basis for migraine and ischemic stroke: A genome-wide analysis of common variants. *Neurology*. 2015 May 26;84(21):2132-45. doi: 10.1212/WNL.0000000000001606. Epub 2015 May 1.
- 340) van der Sar SA, Zielman R, Terwindt GM, van den Maagdenberg AM, Deelder AM, Mayboroda OA, Meissner A, Ferrari MD. Ethanol contamination of cerebrospinal fluid during standardized sampling and its effect on 1H-NMR metabolomics. *Anal Bioanal Chem*. 2015 Jun;407(16):4835-9. doi: 10.1007/s00216-015-8663-9. Epub 2015 May 3.
- 341) Eikermann-Haerter K, Arbel-Ornath M, Yalcin N, Yu ES, Kuchibhotla KV, Yuzawa I, Hudry E, Willard CR, Klimov M, Keles F, Belcher AM, Sengul B, Negro A, Rosen IA, Arreguin A, Ferrari MD, van den Maagdenberg AM, Bacskai BJ, Ayata C. Abnormal synaptic Ca(2+) homeostasis and morphology in cortical neurons of familial hemiplegic migraine type 1 mutant mice. *Ann Neurol*. 2015 Aug;78(2):193-210. doi: 10.1002/ana.24449. Epub 2015 Jul 6.
- 342) Louter MA, Pijpers JA, Wardenaar KJ, van Zwet EW, van Hemert AM, Zitman FG, Ferrari MD, Penninx BW, Terwindt GM. Symptom dimensions of affective disorders in migraine patients. *J Psychosom Res*. 2015 Nov;79(5):458-63. doi: 10.1016/j.jpsychores.2015.09.014.
- 343) Olde Rikkert MG, Dakos V, Buchman TG, Boer Rd, Glass L, Cramer AO, Levin S, van Nes E, Sugihara G, Ferrari MD, Tolner EA, van de Leemput I, Lagro J, Melis R, Scheffer M. Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. *Crit Care Med*. 2016 Mar;44(3):601-6. doi: 10.1097/CCM.0000000000001564.
- 344) Eising E, Huisman SM, Mahfouz A, Vijfhuizen LS, Anttila V, Winsvold BS, Kurth T, Ikram MA, Freilinger T, Kaprio J, Boomsma DI, van Duijn CM, Järvelin MR, Zwart JA, Quaye L, Strachan DP, Kubisch C, Dichgans M, Davey Smith G, Stefansson K, Palotie A, Chasman DI, Ferrari MD, Terwindt GM, de Vries B, Nyholt DR, Lelieveldt BP, van den Maagdenberg AM, Reinders MJ. Gene co-expression analysis identifies brain regions and cell types involved in migraine pathophysiology: a GWAS-based study using the Allen Human Brain Atlas. *Hum Genet*. 2016 Apr;135(4):425-39. doi: 10.1007/s00439-016-1638-x. Epub 2016 Feb 22.
- 345) de Coo IF, Wilbrink LA, Haan J, Ferrari MD, Terwindt GM. Evaluation of the new ICHD-III beta cluster headache criteria. *Cephalalgia*. 2016 May;36(6):547-51. doi: 10.1177/0333102415607856. Epub 2015 Sep 22.
- 346) Koppen H, Palm-Meinders IH, Mess WH, Keunen RW, Terwindt GM, Launer LJ, van Buchem MA, Kruit MC, Ferrari MD. Systemic right-to-left shunts, ischemic brain lesions, and persistent migraine activity. *Neurology*. 2016 May 3;86(18):1668-75. doi: 10.1212/WNL.0000000000002538. Epub 2016 Mar 11.
- 347) Pelzer N, Blom DE, Stam AH, Vijfhuizen LS, Hageman A, van Vliet JA, Ferrari MD, van den Maagdenberg A, Haan J, Terwindt GM. Recurrent coma and fever in familial hemiplegic migraine type 2. A prospective 15-year follow-up of a large family with a novel ATP1A2 mutation. *Cephalalgia*. 2017

- Jul;37(8):737-755. doi: 10.1177/0333102416651284. Epub 2016 May 24.
- 348) van Oosterhout WP, van Someren EJ, Louter MA, Schoonman GG, Lammers GJ, Rijsman RM, Ferrari MD, Terwindt GM. Restless legs syndrome in migraine patients: prevalence and severity. *Eur J Neurol*. 2016 Jun;23(6):1110-6. doi: 10.1111/ene.12993. Epub 2016 Mar 21.
- 349) Eising E, de Leeuw C, Min JL, Anttila V, Verheijen MH, Terwindt GM, Dichgans M, Freilinger T, Kubisch C; International Headache Genetics Consortium., Ferrari MD, Smit AB, de Vries B, Palotie A, van den Maagdenberg AM, Posthuma D. Involvement of astrocyte and oligodendrocyte gene sets in migraine. *Cephalalgia*. 2016 Jun;36(7):640-7. doi: 10.1177/0333102415618614. Epub 2015 Dec 7.
- 350) Zhao H, Eising E, de Vries B, Vijfhuizen LS; International Headache Genetics Consortium., Anttila V, Winsvold BS, Kurth T, Stefansson H, Kallela M, Malik R, Stam AH, Ikram MA, Ligthart L, Freilinger T, Alexander M, Müller-Myhsok B, Schreiber S, Meitinger T, Aromas A, Eriksson JG, Boomsma DI, van Duijn CM, Zwart JA, Quaye L, Kubisch C, Dichgans M, Wessman M, Stefansson K, Chasman DI, Palotie A, Martin NG, Montgomery GW, Ferrari MD, Terwindt GM, van den Maagdenberg AM, Nyholt DR. Gene-based pleiotropy across migraine with aura and migraine without aura patient groups. *Cephalalgia*. 2016 Jun;36(7):648-57. doi: 10.1177/0333102415591497. Epub 2015 Dec 8.
- 351) Hamming AM, Wermer MJ, Umesh Rudrapatna S, Lanier C, van Os HJ, van den Bergh WM, Ferrari MD, van der Toorn A, van den Maagdenberg AM, Stowe AM, Dijkhuizen RM. Spreading depolarizations increase delayed brain injury in a rat model of subarachnoid hemorrhage. *J Cereb Blood Flow Metab*. 2016 Jul;36(7):1224-31. doi: 10.1177/0271678X15619189. Epub 2015 Nov 30.
- 352) Hamming AM, Mulder IA, Gathier CS, van den Bergh WM, Dankbaar JW, Hoff RG, Vandertop WP, Verbaan D, Ferrari MD, Rinkel GJ, Algra A, Wermer MJ. Spreading depolarization-modulating drugs and delayed cerebral ischemia after subarachnoid hemorrhage: A hypothesis-generating retrospective clinical study. *J Neurol Sci*. 2016 Jul 15;366:224-8. doi: 10.1016/j.jns.2016.04.056. Epub 2016 May 7.
- 353) Arkink EB, Schmitz N, Schoonman GG, van Vliet JA, Haan J, van Buchem MA, Ferrari MD, Kruit MC. The anterior hypothalamus in cluster headache. *Cephalalgia*. 2017 Oct;37(11):1039-1050. doi: 10.1177/0333102416660550. Epub 2016 Aug 16.
- 354) Stam AH, Kothari PH, Shaikh A, Gschwendter A, Jen JC, Hodgkinson S, Hardy TA, Hayes M, Kempster PA, Kotschet KE, Bajema IM, van Duinen SG, Maat-Schieman ML, de Jong PT, de Smet MD, de Wolff-Rouendaal D, Dijkman G, Pelzer N, Kolar GR, Schmidt RE, Lacey J, Joseph D, Fintak DR, Grand MG, Brunt EM, Liapis H, Hajj-Ali RA, Kruit MC, van Buchem MA, Dichgans M, Frants RR, van den Maagdenberg AM, Haan J, Baloh RW, Atkinson JP, Terwindt GM, Ferrari MD. Retinal vasculopathy with cerebral leukoencephalopathy and systemic manifestations. *Brain*. 2016 Nov 1;139(11):2909-2922. doi: 10.1093/brain/aww217.
- 355) van Os HJ, Mulder IA, van der Schaaf IC, Kappelle LJ, Velthuis BK, Broersen A, Vos JA, Terwindt GM, Schonewille W, Ferrari MD, Algra A, van Walderveen MA, Wermer MJ. Role of atherosclerosis, clot extent, and penumbra volume in headache during ischemic stroke. *Neurology*. 2016 Sep 13;87(11):1124-30. doi: 10.1212/WNL.0000000000003092. Epub 2016 Aug 17.
- 356) Gormley P, Anttila V, Winsvold BS, Palta P, Esko T, Pers TH, Farh KH, Cuenca-Leon E, Muona M, Furlotte NA, Kurth T, Ingason A, McMahon G, Ligthart L, Terwindt GM, Kallela M, Freilinger TM, Ran C, Gordon SG, Stam AH, Steinberg S, Borck G, Koironen M, Quaye L, Adams HH, Lehtimäki T, Sarin AP, Wedenoja J, Hinds DA, Buring JE, Schürks M, Ridker PM, Hrafnsdóttir MG, Stefansson H, Ring SM, Hottenga JJ, Penninx BW, Färkkilä M, Artto V, Kaunisto M, Vepsäläinen S, Malik R, Heath AC, Madden PA, Martin NG, Montgomery GW, Kurki MI, Kals M, Mägi R, Pärn K, Hämäläinen E, Huang H, Byrnes AE, Franke L, Huang J, Stergiakouli E, Lee PH, Sandor C, Webber C, Cader Z, Muller-Myhsok B, Schreiber S, Meitinger T, Eriksson JG, Salomaa V, Heikkilä K, Loehrer E, Uitterlinden AG, Hofman A, van Duijn CM, Cherkas L, Pedersen LM, Stubhaug A, Nielsen CS, Männikkö M, Mihailov E, Milani L, Göbel H, Esserlind AL, Christensen AF, Hansen TF, Werge T; International Headache Genetics Consortium., Kaprio J, Aromaa AJ, Raitakari O, Ikram MA, Spector T, Järvelin MR, Metspalu A, Kubisch C, Strachan DP, Ferrari MD, Belin AC, Dichgans M, Wessman M, van den Maagdenberg AM, Zwart JA, Boomsma DI, Smith GD, Stefansson K, Eriksson N, Daly MJ, Neale BM, Olesen J, Chasman DI, Nyholt DR, Palotie A. Meta-analysis of 375,000 individuals identifies 38 susceptibility loci for migraine. *Nat Genet*. 2016 Sep 28;48(10):1296. doi: 10.1038/ng1016-1296c.
- 357) Louter MA, Wilbrink LA, Haan J, van Zwet EW, van Oosterhout WP, Zitman FG, Ferrari MD, Terwindt GM. Cluster headache and depression. *Neurology*. 2016 Nov 1;87(18):1899-1906. Epub 2016 Sep 30.
- 358) Zielman R, Postma R, Verhoeven A, Bakels F, van Oosterhout WP, Meissner A, van den Maagdenberg AM, Terwindt GM, Mayboroda OA, Ferrari MD. Metabolomic changes in CSF of migraine patients measured with (1)H-NMR spectroscopy. *Mol Biosyst*. 2016 Nov 15;12(12):3674-3682.
- 359) Louter MA, Pelzer N, de Boer I, Kuijvenhoven BE, van Oosterhout WP, van Zwet EW, Ferrari MD, Terwindt GM. Prevalence of lifetime depression in a large hemiplegic migraine cohort. *Neurology*. 2016

- Nov 29;87(22):2370-2374. Epub 2016 Nov 2.
- 360) Koppen H, Stolwijk J, Wilms EB, van Driel V, Ferrari MD, Haan J. Cardiac monitoring of high-dose verapamil in cluster headache: An international Delphi study. *Cephalalgia*. 2016 Dec;36(14):1385-1388. Epub 2016 Feb 10.
- 361) MaassenVanDenBrink A, Meijer J, Villalón CM, Ferrari MD. Wiping Out CGRP: Potential Cardiovascular Risks. *Trends Pharmacol Sci*. 2016 Sep;37(9):779-88. doi: 10.1016/j.tips.2016.06.002. Epub 2016 Jun 21.
- 362) van Dongen RM, Zielman R, Noga M, Dekkers OM, Hankemeier T, van den Maagdenberg AM, Terwindt GM, Ferrari MD. Migraine biomarkers in cerebrospinal fluid: A systematic review and meta-analysis. *Cephalalgia*. 2017 Jan;37(1):49-63. doi: 10.1177/0333102415625614. Epub 2016 Sep 30.
- 363) Palm-Meinders IH, Koppen H, Terwindt GM, Launer LJ, van Buchem MA, Ferrari MD, Kruit MC. Iron in deep brain nuclei in migraine? CAMERA follow-up MRI findings. *Cephalalgia*. 2017 Jul;37(8):795-800. doi: 10.1177/0333102416668654. Epub 2017 Apr 6.
- 364) Hamming AM, van der Toorn A, Rudrapatna US, Ma L, van Os HJ, Ferrari MD, van den Maagdenberg AM, van Zwet E, Poinatte K, Stowe AM, Dijkhuizen RM, Wermer MJ. Valproate Reduces Delayed Brain Injury in a Rat Model of Subarachnoid Hemorrhage. *Stroke*. 2017 Feb;48(2):452-458. doi: 10.1161/STROKEAHA.116.014738. Epub 2016 Dec 27.
- 365) Koppen H, Boele HJ, Palm-Meinders IH, Koutstaal BJ, Horlings CG, Koekkoek BK, van der Geest J, Smit AE, van Buchem MA, Launer LJ, Terwindt GM, Bloem BR, Kruit MC, Ferrari MD, De Zeeuw CI. Cerebellar function and ischemic brain lesions in migraine patients from the general population. *Cephalalgia*. 2017 Feb;37(2):177-190. doi: 10.1177/0333102416643527. Epub 2016 Jul 11.
- 366) Kantae V, Ogino S, Noga M, Harms AC, van Dongen RM, Onderwater GL, van den Maagdenberg AM, Terwindt GM, van der Stelt M, Ferrari MD, Hankemeier T. Quantitative profiling of endocannabinoids and related N-acyl ethanolamines in human CSF using nano LC-MS/MS. *J Lipid Res*. 2017 Mar;58(3):615-624. doi: 10.1194/jlr.D070433. Epub 2016 Dec 20.
- 367) Arkink EB, Schoonman GG, van Vliet JA, Bakels HS, Sneeboer MA, Haan J, van Buchem MA, Ferrari MD, Kruit MC. The cavernous sinus in cluster headache – a quantitative structural magnetic resonance imaging study. *Cephalalgia*. 2017 Mar;37(3):208-213. doi: 10.1177/0333102416640513. Epub 2016 Jul 11.
- 368) Wilbrink LA, Louter MA, Teernstra OP, van Zwet EW, Huygen FJ, Haan J, Ferrari MD, Terwindt GM. Allodynia in Cluster Headache. *Pain*. 2017 Jun;158(6):1113-1117. doi: 10.1097/j.pain.0000000000000891.
- 369) Chen SP, Qin T, Seidel JL, Zheng Y, Eikermann M, Ferrari MD, van den Maagdenberg AMJM, Moskowitz MA, Ayata C, Eikermann-Haerter K. Inhibition of the P2X7-PANX1 complex suppresses spreading depolarization and neuroinflammation. *Brain*. 2017 Jun 1;140(6):1643-1656. doi: 10.1093/brain/awx085.
- 370) Eising E, Shyti R, 't Hoen PA, Vijfhuizen LS, Huisman SM, Broos LA, Mahfouz A, Reinders MJ, Ferrari MD, Tolner EA, de Vries B, van den Maagdenberg AM. Cortical Spreading Depression Causes Unique Dysregulation of Inflammatory Pathways in a Transgenic Mouse Model of Migraine. *Mol Neurobiol*. 2017 May;54(4):2986-2996. doi: 10.1007/s12035-015-9681-5. Epub 2016 Mar 31.
- 371) Houben T, Loonen IC, Baca SM, Schenke M, Meijer JH, Ferrari MD, Terwindt GM, Voskuyl RA, Charles A, van den Maagdenberg AM, Tolner EA. Optogenetic induction of cortical spreading depression in anesthetized and freely behaving mice. *J Cereb Blood Flow Metab*. 2017 May;37(5):1641-1655. doi: 10.1177/0271678X16645113. Epub 2016 Jan 1.
- 372) Dreier JP, Fabricius M, Ayata C, Sakowitz OW, William Shuttleworth C, Dohmen C, Graf R, Vajkoczy P, Helbok R, Suzuki M, Schiefecker AJ, Major S, Winkler MK, Kang EJ, Milakara D, Oliveira-Ferreira AI, Reiffurth C, Revankar GS, Sugimoto K, Dengler NF, Hecht N, Foreman B, Feyen B, Kondziella D, Friberg CK, Piilgaard H, Rosenthal ES, Westover MB, Maslarova A, Santos E, Hertle D, Sánchez-Porras R, Jewell SL, Balança B, Platz J, Hinzman JM, Lückl J, Schoknecht K, Schöll M, Drenckhahn C, Feuerstein D, Eriksen N, Horst V, Bretz JS, Jahnke P, Scheel M, Bohner G, Rostrup E, Pakkenberg B, Heinemann U, Claassen J, Carlson AP, Kowoll CM, Lublinsky S, Chassidim Y, Shelef I, Friedman A, Brinker G, Reiner M, Kirov SA, Andrew RD, Farkas E, Güresir E, Vatter H, Chung LS, Brennan KC, Lieutaud T, Marinesco S, Maas AI, Sahuquillo J, Dahlem MA, Richter F, Herreras O, Boutelle MG, Okonkwo DO, Bullock MR, Witte OW, Martus P, van den Maagdenberg AM, Ferrari MD, Dijkhuizen RM, Shutter LA, Andaluz N, Schulte AP, MacVicar B, Watanabe T, Woitzik J, Lauritzen M, Strong AJ, Hartings JA. Recording, analysis, and interpretation of spreading depolarizations in neurointensive care: Review and recommendations of the COSBID research group. *J Cereb Blood Flow Metab*. 2017 May;37(5):1595-1625. doi: 10.1177/0271678X16654496. Epub 2016 Jan 1.
- 373) Eising E, Pelzer N, Vijfhuizen LS, Vries B, Ferrari MD, 't Hoen PA, Terwindt GM, van den Maagdenberg

- AM. Identifying a gene expression signature of cluster headache in blood. *Sci Rep*. 2017 Jan 11;7:40218. doi: 10.1038/srep40218.
- 374) van Os HJA, Mulder IA, Broersen A, Algra A, van der Schaaf IC, Kappelle LJ, Velthuis BK, Terwindt GM, Schonewille WJ, Visser MC, Ferrari MD, van Walderveen MAA, Wermer MJH; DUST Investigators. Migraine and Cerebrovascular Atherosclerosis in Patients With Ischemic Stroke. *Stroke*. 2017 Jul;48(7):1973-1975. doi: 10.1161/STROKEAHA.116.016133. Epub 2017 May 19.
- 375) Zielman R, Wijnen JP, Webb A, Onderwater GLJ, Ronen I, Ferrari MD, Kan HE, Terwindt GM, Kruit MC. Cortical glutamate in migraine. *Brain*. 2017 Jul 1;140(7):1859-1871. doi: 10.1093/brain/awx130.
- 376) Pelzer N, Hoogeveen ES, Ferrari MD, Poll-The BT, Kruit MC, Terwindt GM. Brain atrophy following hemiplegic migraine attacks. *Cephalalgia*. 2018 May;38(6):1199-1202. doi: 10.1177/0333102417723569. Epub 2017 Jul 27.
- 377) Hardy TA, Young S, Sy JS, Colley AF, Terwindt GM, Ferrari MD, Hayes MW, Hodgkinson S. Tumefactive lesions in retinal vasculopathy with cerebral leucoencephalopathy and systemic manifestations (RVCL-S): a role for neuroinflammation? *J Neurol Neurosurg Psychiatry*. 2017 Aug 9. pii: jnnp-2017-316142. doi: 10.1136/jnnp-2017-316142. [Epub ahead of print]
- 378) Tietjen GE, Khubchandani J, Herial N, Palm-Meinders IH, Koppen H, Terwindt GM, van Buchem MA, Launer LJ, Ferrari MD, Kruit MC. Migraine and vascular disease biomarkers: A population-based case-control study. *Cephalalgia*. 2018 Mar;38(3):511-518. doi: 10.1177/0333102417698936. Epub 2017 Mar 15.
- 379) van Oosterhout W, van Someren E, Schoonman GG, Louter MA, Lammers GJ, Ferrari MD, Terwindt GM. Chronotypes and circadian timing in migraine. *Cephalalgia*. 2018 Apr;38(4):617-625. doi: 10.1177/0333102417698953. Epub 2017 Mar 20.
- 380) Palm-Meinders IH, Arkink EB, Koppen H, Amlal S, Terwindt GM, Launer LJ, van Buchem MA, Ferrari MD, Kruit MC. Volumetric brain changes in migraineurs from the general population. *Neurology*. 2017 Nov 14;89(20):2066-2074. doi: 10.1212/WNL.0000000000004640. Epub 2017 Oct 11.
- 381) Pelzer N, Bijkerk R, Reinders MEJ, van Zonneveld AJ, Ferrari MD, van den Maagdenberg AMJM, Eikenboom J, Terwindt GM. Circulating Endothelial Markers in Retinal Vasculopathy With Cerebral Leucoencephalopathy and Systemic Manifestations. *Stroke*. 2017 Dec;48(12):3301-3307. doi: 10.1161/STROKEAHA.117.018556. Epub 2017 Nov 7.
- 382) Goadsby PJ, de Coo IF, Silver N, Tyagi A, Ahmed F, Gaul C, Jensen RH, Diener HC, Solbach K, Straube A, Liebler E, Marin JC, Ferrari MD; ACT2 Study Group. Non-invasive vagus nerve stimulation for the acute treatment of episodic and chronic cluster headache: A randomized, double-blind, sham-controlled ACT2 study. *Cephalalgia*. 2018 Apr;38(5):959-969. doi: 10.1177/0333102417744362. Epub 2017 Dec 12.
- 383) Pelzer N, Haan J, Stam AH, Vijfhuizen LS, Koelewijn SC, Smagge A, de Vries B, Ferrari MD, van den Maagdenberg AMJM, Terwindt GM. Clinical spectrum of hemiplegic migraine and chances of finding a pathogenic mutation. *Neurology*. 2018 Feb 13;90(7):e575-e582. doi: 10.1212/WNL.0000000000004966. Epub 2018 Jan 17.
- 384) 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.
- 385) Noga MJ, Zielman R, van Dongen RM, Bos S, Harms A, Terwindt GM, van den Maagdenberg AMJM, Hankemeier T, Ferrari MD. Strategies to assess and optimize stability of endogenous amines during cerebrospinal fluid sampling. *Metabolomics*. 2018;14(4):44. doi: 10.1007/s11306-018-1333-0. Epub 2018 Mar 5.
- 386) Gormley P, Kurki MI, Hiekkala ME, Veerapen K, Häppölä P, Mitchell AA, Lal D, Palta P, Surakka I, Kaunisto MA, Hämäläinen E, Vepsäläinen S, Havanka H, Harno H, Ilmavirta M, Nissilä M, Säkö E, Sumelahti ML, Liukkonen J, Sillanpää M, Metsähonkala L, Koskinen S, Lehtimäki T, Raitakari O, Männikkö M, Ran C, Belin AC, Jousilahti P, Anttila V, Salomaa V, Artto V, Färkkilä M; 23andMe Research Team; International Headache Genetics Consortium (IHGC), Runz H, Daly MJ, Neale BM, Ripatti S, Kallela M, Wessman M, Palotie A. Common Variant Burden Contributes to the Familial Aggregation of Migraine in 1,589 Families. *Neuron*. 2018 May 16;98(4):743-753.e4. doi: 10.1016/j.neuron.2018.04.014. Epub 2018 May 3.
- 387)

B) REVIEW ARTICLES

- 1) Ferrari MD, Kok JG. Migraine: diagnose, pathofysiologie en therapie. Caput selectum. *Ned Tijds Geneesk* 1987;131;8;315-320.
- 2) Saxena PR, Ferrari MD. 5HT₁-like receptor agonists and the pathophysiology of migraine. *Trends Pharmacol Sci* 1989; 10;5:200-204.
- 3) Ferrari MD, Bruyn GW. Migraine research awakens. *Neurosci Newslett* 1989;3:2-4.
- 4) Ferrari MD. Migraine en Cluster Headache: Diagnostiek, pathofysiologie en behandeling. *Patient Care* 1990;17;12:13-35.
- 5) Ferrari MD. 5-HT₃ receptor antagonists and migraine therapy. *J Neurol* 1991;238:S53-56.
- 6) Sumatriptan International Study Group (Ensink FBM, Ferrari MD, et al) Subcutaneous sumatriptan in the acute treatment of migraine. *J Neurol* 1991;238:S66-69.
- 7) Ferrari MD. Biochemistry of migraine. *Pathol Biol* 1992;40;4:287-292.
- 8) Saxena PR, Ferrari MD. From serotonin receptor classification to the antimigraine drug sumatriptan. *Cephalalgia* 1992;12:187-196.
- 9) Saxena PR, Den Boer MO, Ferrari MD. The pharmacology of antimigrainous drugs. *Clin Neuropharm* 1992;15;1:375A-376A.
- 10) Ferrari MD. Sumatriptan (Editorial commentary). *Cephalalgia* 1992;12:3-4.
- 11) Ferrari MD, Saxena PR. Clinical effects and mechanism of action of sumatriptan in migraine. *Clin Neurol Neurosurg* 1992;94(suppl):S73-S77.
- 12) Visser WH, Ferrari MD. Behandeling van migraine. *The Practitioner* 1992;3:143-147.
- 13) Ferrari MD. Sumatriptan (Imigran) bij migraine en cluster hoofdpijn. *De Papieren Visite* 1992;4:81-84.
- 14) Van Dijk JG, Haan J, Ferrari MD. Photic stimulation and the diagnosis of migraine. *Headache Quarterly, Current Treatment and Research* 1992;3:387-397.
- 15) Saxena PR, Bax WA, Ferrari MD. 5-Hydroxytryptamine receptor subtypes and antimigraine action. *Ind J Pharmacol* 1993;25:60-67.
- 16) Ferrari MD, Haan J, Bax WA, van Coevorden RS, Timmerman H, Meijler WJ. Onterechte gelijkschakeling van sumatriptan met ergotamine en dihydroergotamine in het Geneesmiddelen Vergoedings Systeem. *Ned Tijdsch Geneesk* 1993;137:846-850.
- 17) Ferrari MD, Haan J, Visser WH, Saxena PR, Bax WA, Mulder LJMM. Sumatriptan in de klinische praktijk. *Ned Tijdsch Geneesk* 1993;137:850-855.
- 18) Ferrari MD. Sumatriptan in the treatment of migraine. *Neurology* 1993;43(suppl 3):S43-47.
- 19) Ferrari MD, Saxena PR. On serotonin and migraine: a clinical and pharmacological review. *Cephalalgia* 1993; 13:151-165.
- 20) Ferrari MD, Saxena PR. Clinical and experimental effects of sumatriptan in humans. *Trends in Pharmacol Sci* 1993;14:129-133.
- 21) Haan J, Ferrari MD. De behandeling van migraine en cluster hoofdpijn. *Modern Medicine* 1993;10:685-689.
- 22) Ferrari MD, Saxena PR. 5-HT₁ receptors in migraine pathophysiology and treatment. *Eur J Neurol* 1995;2:5-21.
- 23) Terwindt GM, Ferrari MD. Association study in migraine. Editorial Commentary. *Cephalalgia* 1995;15:163-4.
- 24) Ferrari MD, Haan J. Acute treatment of migraine attacks. *Current Opinion in Neurology* 1995;8:237-42.
- 25) Brouwer OF, Ferrari MD. Hoofdpijn bij kinderen. *Tijdschr Kindergeneesk* 1995;63:135-41.
- 26) Van Es NM, Bruning TA, Camps J, Chang PC, Blauw GJ, Ferrari MD, Saxena PR, Van Zwieten PA. Assessment of peripheral vascular effects of antimigraine drugs in humans. *Cephalalgia* 1995;15:288-91.
- 27) Ferrari MD, Schoenen J (Eds). From molecules to migraine patient. *Cephalalgia* 1995; suppl 15.
- 28) Schoenen J, Ferrari MD. Editorial. *Cephalalgia* 1995;15:257.
- 29) Saxena PR, Ferrari MD. Pharmacology of antimigraine 5-HT_{1D} receptor agonists. *Exp Opin Invest Drugs* 1996;5(5):581-593.
- 30) Ferrari MD. The clinical effectiveness of 311C90 in the acute treatment of migraine. *Eur Neurol* 1996;36(suppl 2):4-7.
- 31) Haan J, Ferrari MD. Hoofdpijnen. *Bijblijven* 1996;12(8):41-50.
- 32) Roon KI, Ferrari MD. Nieuwe inzichten in migraine. *Modern Medicine* 1996;20:374-380.
- 33) Haan J, Ferrari MD. Epilepsie en migraine. *Episcrypt* 1996;1(2):3-8.
- 34) Haan J, Ferrari MD. Wat kan de huisarts profylactisch doen bij migraine en cluster hoofdpijn? *Recept* 1996;4:15-18.
- 35) Terwindt GM, Haan J, Ophoff RA, Frants RR, Ferrari MD. The quest for migraine genes. *Curr Opin Neurol* 1997;10:221-5.
- 36) Ferrari MD. 311C90: Increasing the options for therapy with effective acute antimigraine 5HT_{1B/1D}

- receptor agonists. *Neurology* 1997;48(suppl 3):S21-S24.
- 37) Ferrari MD. From genetics to prophylaxis. *Cephalalgia* 1997;17(suppl 17):2-5.
 - 38) Ophoff RA, Terwindt GM, Vergouwe MN, Frants RR, Ferrari MD. Familial Hemiplegic Migraine: involvement of a calcium neuronal channel. *Neurologia* 1997;12(suppl 5):31-38.
 - 39) Ferrari MD. Migraine. *Lancet* 1998;351:1043-1052.
 - 40) Terwindt GM, Ophoff RA, Haan J, Frants RR, Ferrari MD. Kanalopathieën: genetische verklaring voor migraine en andere paroxysmale neurologische aandoeningen. *Ned Tijdschr Geneeskd* 1998;142:1015-19.
 - 41) Ferrari, MD. The economic burden of migraine to society. *Pharmacoeconomics* 1998;13:667-676.
 - 42) Ophoff RA, Terwindt GM, Ferrari MD, Frants RR. Genetics and pathology of voltage-gated Ca²⁺ channels. *Histology and histopathology* 1998;13:827-836.
 - 43) Ophoff RA, Terwindt GM, Frants RR, Ferrari MD. P/Q-type Ca²⁺ channel defects in migraine, ataxia and epilepsy. *Trends in Pharmacological Sciences* 1998;19:121-127.
 - 44) Terwindt GM, Ophoff RA, Haan J, Sandkuijl LA, Frants RR, Ferrari MD for the Dutch Migraine genetics Research Group. Migraine, ataxia and epilepsy: a challenging spectrum of genetically determined calcium channelopathies. *Europ J Human Genetics* 1998;6:297-307.
 - 45) Vliet van JA, Ferrari MD. Cluster hoofdpijn. *Modern Medicine* 1998; 11: 16-23.
 - 46) Koehler PJ. Chronisch recidiverende hoofdpijn zonder neurologische afwijkingen. Richtlijnen van de Nederlandse Vereniging voor Neurologie. *Ned Tijdschr Geneeskd* 1999;143-295-300.
 - 47) Kors EE, Haan J, Ferrari MD. Genetics of primary headaches. *Curr Opin Neurol* 1999;12:249-254.
 - 48) Ferrari MD. Introduction: Rizatriptan: A New Milestone in Migraine Treatment. *Headache* 1999;39(1):S1-2.
 - 49) Haan J, Kors EE, Ferrari MD. Ion Channel Dysfunction Links Migraine with Ataxia and Epilepsy. *NeuroScience News* 1999;5 (2):35-42.
 - 50) Kors EE, Terwindt GM, Ferrari MD, Haan J. Migraine, een erfelijke ziekte. *Ned Tijdschr Neurol* 1999;1:5-9.
 - 51) Lesnik Oberstein SAJ, Haan J, Ferrari MD, Breuning MH. CADASIL: een erfelijke oorzaak voor herseninfarcten, dementie en migraine. *Ned Tijdschr Neurol* 1999;4:237-241.
 - 52) Kors EE, Terwindt GM, Ferrari MD, Haan J. Migraine: een genetische ziekte? *Modern Medicine* 1999;12:40-43.
 - 53) Haan J, Ferrari MD. Migrainebehandeling: stapsgewijs of op geleide van de MIDAS-score? *Modern Medicine* 1999;1:44-48.
 - 54) Vliet J van, Ferrari MD, Haan J. Diagnostiek en behandeling van cluster hoofdpijn. Zuiver zuurstof of subcutaan sumatriptan als acuut redmiddel. *Pharmaceut Weekbl* 1999; 134:1476-1481.
 - 55) Ferrari MD. Rizatriptan: a new milestone in migraine treatment. Introduction and guest editor *Cephalalgia* 2000;20:1-9.
 - 56) van den Maagdenberg AMJM, Striessnig J, Ferrari MD, Frants RR. CACNA1A gene mutations in familial hemiplegic migraine. *J Headache Pain* 2000;1: S121-S128.
 - 57) Ophoff RA, van den Maagdenberg AMJM, Roon KI, Ferrari MD, Frants RR. The impact of pharmacogenetics for migraine. *Eur J Pharmacol* 2001;413:1-10.
 - 58) Haan J, Ferrari MD. Lisinopril heeft geen relevant preventief effect bij migraine. *Ned Tijdsch Geneeskd* 2001;15:755.
 - 59) Kors EE, Haan J, Frants RR, Ferrari MD. Van gen naar ziekte; van CACNA1A naar migraine. *Ned Tijdsch Geneeskd* 2001;145(6):266-67.
 - 60) Plomp JJ, van den Maagdenberg AMJM, Molenaar PC, Frants RR, Ferrari MD. Mutant P/Q-type calcium channel electrophysiology and migraine. *Current Opinion in Investigational Drugs* 2001;2(9):1250-1260.
 - 61) Kors EE, van den Maagdenberg AJMJ, Plomp JJ, Frants RR, Ferrari MD. Calcium Channel mutations and migraine. *Headache* 2002;311-316.
 - 62) Ferrari MD, Haan J. Genetics of migraine and cluster headache. *Continuum*, 2003; 9(1):48-58.
 - 63) Van Vliet JA, Ferrari MD, Haan J. Genetic factors in cluster headache. *Expert Rev Neurotherapeutics* 2003; 3: 89-94.
 - 64) Kors E, Haan J, Ferrari MD. Migraine genetics. *Current Pain and Headache Reports*, 2003;7:212-217.
 - 65) Terwindt GM, Ferrari MD, Launer LJ. The impact of headache on quality of life. *J Headache Pain* 2003; 4:S35-S41
 - 66) Ferrari MD. Heritability of migraine. *Neurology* 2003;60(Suppl 2):S15-S20.
 - 67) Vanmolkot KRJ, van den Maagdenberg AMJM, Haan J, Ferrari MD. New discoveries about the second gene for familial hemiplegic migraine, ATP1A2. *The Lancet*, Neurology 2003;2:721.
 - 68) Kors EE, Vanmolkot KRJ, Haan J, van den Maagdenberg AMJM, Frants RR, Ferrari MD. Van gen naar

- ziekte; familiale hemiplegische migraine ten gevolge van stoornissen in een natrium-kaliumpompen. *Ned Tijdsch Geneesk* 2004;148(39):1919-1920.
- 69) Kors EE, Vanmolkot KRJ, Haan J, Frants RR, van den Maagdenberg AMJM, Ferrari MD. Recent findings in headache genetics. *Curr Opin Neurol* 2004;17:283-288.
- 70) Roon KI, Ferrari MD. Triptanen en hun plaats in de aanvalsbehandeling van migraine. *Geneesmiddelenbulletin* 2004;38,5:33-40.
- 71) Kruit MC, Launer LJ, van Buchem MA, Terwindt GM, Ferrari MD. MRI findings in migraine. *Revue Neurologique* 2005; 161,6/7:661-666.
- 72) Favier I, Haan J, Ferrari MD. Chronic cluster headache: a review. *The Journal of Headache and Pain* 2005;6:3-10.
- 73) Haan J, Kors EE, Vanmolkot KRJ, van den Maagdenberg AMJM, Frants RR, Ferrari MD. Migraine genetics: an update. *Current Pain and Headache Reports*, 2005;9:213-220.
- 74) Kruit MC, Launer LJ, van Buchem MA, Terwindt GM, Ferrari MD. Migraine as a risk factor for white matter lesions, silent infarctions, and ischemic stroke: the evidence for a link. *Headache Currents* 2005, vol. 2. no. 3:62-71.
- 75) Stam AH, Haan J, Frants RR, Ferrari MD, van den Maagdenberg AM. Migraine: new treatment options from molecular biology. *Expert Rev Neurother*. 2005 Sep;5(5):653-61.
- 76) Terwindt GM, Haan J, Bax JJ, de Bruijn SFTM, Ferrari MD. Migraine en een gaatje in het hart: oorzakelijk verband tussen migraine en foramen ovale persistens niet aangetoond. *Ned Tijdsch Geneesk* 2006;150(19):1050-1052.
- 77) de Vries B, Haan J, Frants RR, van den Maagdenberg AMJM, Ferrari MD. Genetic biomarkers for migraine. *Headache* 2006;46:1059-1068.
- 78) Terwindt GM, Haan J, Ferrari MD. Hemiplegic and basilar-type migraine: current and future treatment. *Headache Currents* 2006;3 no. 4:97-99.
- 79) Haan J, Terwindt GM, Ferrari MD. Migraine en epilepsie: een (genetische) relatie? *Tijdsch Neurol Neurochir* 2006;107:216-221.
- 80) Haan J, Hollander J, Ferrari MD. Migraine in the elderly: a review. *Cephalalgia* 2007 Feb;27(2):97-106.
- 81) Van de Ven RC, Kaja S, Plomp JJ, Frants RR, van den Maagdenberg AM, Ferrari MD. Genetic models of migraine. *Arch Neurol* 2007 May;64(5):643-646.
- 82) Van den Maagdenberg AM, Haan J, Terwindt GM, Ferrari MD. Migraine: gene mutations and functional consequences. *Curr Opin Neurol* 2007 Jun;20(3):299-305.
- 83) Terwindt GM, Haan J, H. Koppen, Ferrari MD. Migraine en cardiovasculair risico. *Ned Tijdsch Geneesk* 2007;151(37):2029-2031
- 84) Haan J, Terwindt GM, Van den Maagdenberg AMJM, Stam AH, Ferrari MD. A review of the genetic relation between migraine and epilepsy. *Cephalalgia* 2007; 28: 105-113
- 85) Ferrari MD, Dekker F. Combinatie van een triptaan met een NSAID bij migraine. *Ned Tijdsch Geneesk*, 8 sep 2007; 151 (36)
- 86) Favier I, Ferrari MD, Haan J. Trigeminale autonome cefalalgie: drie vormen van eenzijdige, kortdurende hoofdpijn met faciale autonome verschijnselen. *Ned Tijdsch Geneesk* 2008;152:139-42
- 87) Haan J, Terwindt GM, van den Maagdenberg AM, Stam AH, Ferrari MD. A review of the genetic relation between migraine and epilepsy. *Cephalalgia*. 2008 Feb;28(2):105-13.
- 88) Migraine and epilepsy: genetically linked? Haan J, van den Maagdenberg AM, Brouwer OF, Ferrari MD. *Expert Rev Neurother*. 2008 Sep;8(9):1307-11.
- 89) Vanmolkot KR, Terwindt GM, Frants RR, Haan J, van den Maagdenberg AM, Ferrari MD. A gene for a new monogenic neurovascular migraine syndrome: a next step in unravelling molecular pathways for migraine? *Cephalalgia*. 2008 May;28(5):471-3.
- 90) Ferrari MD. Migraine genetics: a fascinating journey towards improved migraine therapy. *Headache*. 2008 May;48(5):697-700.
- 91) Koppen H, Terwindt GM, De Bruijn SFTM, Ferrari MD. Percutane sluiting van het foramen ovale persistens bij migrainepatienten. *Neurol Neurochir* 2008; 109 (2):70-73
- 92) Koppen H, Terwindt GM, De Bruijn SFTM, Ferrari MD. Naschrift Percutane sluiting van het foramen ovale persistens bij migrainepatienten. *Neurol Neurochir* 2008; 109 (2):166-7.
- 93) Haan J, van den Maagdenberg AM, Brouwer OF, Ferrari MD. Migraine and epilepsy: genetically linked? *Expert Rev Neurother*. 2008 Sep;8(9):1307-11.
- 94) Kruit M, van Buchem M, Launer L, Terwindt G, Ferrari M. Migraine is associated with an increased risk of deep white matter lesions, subclinical posterior circulation infarcts and brain iron accumulation: the population-based MRI CAMERA study. *Cephalalgia*. 2009 Jun 8.
- 95) Bigal ME, Ferrari M, Silberstein SD, Lipton RB, Goadsby PJ. Migraine in the triptan era: lessons from epidemiology, pathophysiology, and clinical science. *Headache*. 2009 Feb;49 Suppl 1:S21-33.

- 96) Stam AH, Haan J, van den Maagdenberg AM, Ferrari MD, Terwindt GM. Migraine and genetic and acquired vasculopathies. *Cephalalgia*. 2009 Sep;29(9):1006-17.
- 97) Koppen H, Terwindt GM, Haan J, de Bruijn SF, Bax JJ, Ferrari MD. No indication for patent foramen ovale closure in migraine. *Neth Heart J*. 2009 Sep;17(9):320-1.
- 98) Van Oosterhout WPJ, Maassen van den Brink A, Terwindt GM, Ferrari MD. De potentiële rol van CGRP-receptorantagonisten in de behandeling van migraine; een blik in de nabije toekomst; CGRP receptor antagonists in the treatment of migraine. *Neurol Neurochir*. 2010;111:53-9.
- 99) Van Oosterhout WPJ, Maassen van den Brink A, Terwindt GM, Ferrari MD. CGRP-receptorantagonisten bij de behandeling van migraine. CGRP receptor antagonists in the treatment of migraine. *PW Wetenschappelijk Platform* 2010;4(7/8): 114-120.
- 100) Liem MK, Oberstein SA, Van der Grond J, Ferrari MD, Haan J. CADASIL and migraine: A narrative review. *Cephalalgia* 2010 Nov;30(11):1284-9.
- 101) Mulleners WM, Haan J, Dekker F, Ferrari MD. Preventive treatment for migraine. *Ned Tijdschr Geneeskd*. 2010;154:A1512.
- 102) Haan J, Van Santbrink H, Ferrari MD. Controversy surrounding the term 'retinal migraine'. *Ned Tijdschr Geneeskd*. 2010;154:A1351.
- 103) Louter MA, Veen G, Ferrari MD, Zitman FG, Terwindt GM. Migraine and depression should be treated concurrently. *Ned Tijdschr Geneeskd*. 2010;154:A1044.
- 104) De Felice M, Ossipov MH, Wang R, Lai J, Chichorro J, Meng I, Dodick DW, Vanderah TW, Dussor G, Porreca F. Triptan-induced latent sensitization: a possible basis for medication overuse headache. *Ann Neurol*. 2010 Mar;67(3):325-37.
- 105) Haan J, Wilbrink LA, Haan R, Ferrari MD. The cluster tic syndrome and other tic-TAC combinations. *Neurol Neurochir*. 2011;112:62-8
- 106) Haan J, Smithuis RHM, Haan R, Ferrari MD. Pineal gland abnormalities and headache. *Neurol Neurochir* 2011;112:101-8
- 107) MaassenVanDenBrink A, Ferrari MD. Serotonin, NO, and CGRP and Headache. *Headache* 2011:June 1046-1048
- 108) Ferrari MD, Kies D, Schoonman G. Posttraumatische migraine: Absence of evidence is not evidence of absence'. *GAVscoop* jaargang 16, nummer 3, December 2012 67-73
- 109) Ferrari MD. Headache: the changing migraine brain. *Lancet Neurology* January 2013, vol 12:6-8
- 110) Eising E, Datson NA, Van den Maagdenberg AMJM, Ferrari MD. Epigenetic mechanisms in migraine: a promising avenue? *BMC Medicine* 2013, 11:26
- 111) Pelzer N, Stam AH, Haan J, Ferrari MD, Terwindt GM. Familial and sporadic hemiplegic migraine: diagnosis and treatment. *Curr Treat Options Neurol* 2013 DOI10.1007/s11940-012-0208-3
- 112) Eising E, de Vries B, Ferrari MD, Terwindt GM, van den Maagdenberg AM. Pearls and pitfalls in genetic studies of migraine. *Cephalalgia*. 2013 Jun;33(8):614-25. doi: 10.1177/0333102413484988
- 113) Ferrari MD, Klever RR, Terwindt GM, Ayata C, van den Maagdenberg AM. Migraine pathophysiology: lessons from mouse models and human genetics. *Lancet Neurol*. 2015 Jan;14(1):65-80. doi: 10.1016/S1474-4422(14)70220-0
- 114) MaassenVanDenBrink A, Meijer J, Villalón CM, Ferrari MD. Wiping Out CGRP: Potential Cardiovascular Risks. *Trends Pharmacol Sci*. 2016 Sep;37(9):779-88. doi: 10.1016/j.tips.2016.06.002. Epub 2016 Jun 21.
- 115) van Dongen RM, Zielman R, Noga M, Dekkers OM, Hankemeier T, van den Maagdenberg AM, Terwindt GM, Ferrari MD. Migraine biomarkers in cerebrospinal fluid: A systematic review and meta-analysis. *Cephalalgia*. 2017 Jan;37(1):49-63. doi: 10.1177/0333102415625614. Epub 2016 Sep 30.

C) BOOKS and CHAPTERS in BOOKS

- 1) Ferrari MD, Bruyn GW. Migraine, pathofysiologie en therapie. In Van Es JC et al, Red. *Het Medisch Jaar 1986*. Bohn, Scheltema & Holkema, Utrecht 1986: 261-272.
- 2) Ferrari MD, Frölich M, Odink J, Tapparelli C, Portielje JEA, Bruyn GW. Methionine-enkephalin and serotonin in migraine and tension headache. In: F Clifford Rose ed. *Advances in Headache Research*, John Libbey & Co. Ltd, London 1987:227-34.
- 3) Bruyn GW, Ferrari MD. The biochemistry of migraine. In Rose FC ed: *The management of headache*: Raven Press New York 1988:47-68.
- 4) Ferrari MD, Odink J, Bruyn GW. Biochemical differences between classic migraine, common migraine and tension headache. In: Ferrari MD, Bruyn GW, Padberg GWAM, Zitman FG, eds. *Migraine and other headaches*. Boerhaave Commissie voor PAOG, Rijks Universiteit, Leiden, 1987: 149-161.
- 5) Ferrari MD, Bruyn GW, Padberg GWAM, Zitman FG, eds. *Migraine and other headaches*. Boerhaave

- commissie voor PAOG, Rijks Universiteit, Leiden 1987.
- 6) Ferrari MD. Migraine. In Bolk JH, de Bruyne J, Mulder JD Red.: *Vorderingen in de praktijk*. Boerhaave Commissie voor PAOG, Rijks Universiteit, Leiden, 1988: 201-215.
 - 7) Ferrari MD, Odink J. Urinary excretion of biogenic amines in migraine and tension headache. In: F. Clifford Rose ed. *New Advances in Headache Research*, Smith-Gordon & Co Ltd. London 1989: 85-88.
 - 8) Ferrari MD, Lataste X eds. *New Trends in Clinical Neurology: Migraine and other Headaches*, Parthenon Publ. Carnforth-New Jersey 1989.
 - 9) Ferrari MD, Odink J, Bruyn GW. Biochemical differences between classic migraine, common migraine and tension headache. In: Ferrari MD, Lataste X eds. *New Trends in Clinical Neurology: Migraine and other Headaches*, Parthenon Publ. Carnforth-New Jersey 1989:151-160.
 - 10) Ferrari MD. Therapie bij migraine. In: Keyser A, Vanneste J, Vermeulen M red. *Diagnostische & therapeutische problemen in de neurologie*. Nascholingscursus Neurologie 1989: 74-86.
 - 11) Ferrari MD. Migraine: nieuwe ontwikkelingen. *Pijninformatarium* 1991; HP1550 1-13.
 - 12) Ferrari MD. Sumatriptan in de behandeling van migraine aanvallen. In: Keyser A, Vanneste J, Vermeulen M red. *Nieuws in de Neurologie* Nascholingscursus Neurologie 1990: 9-13.
 - 13) Gijsman HJ, Ferrari MD. Hoofdpijn. In: Hendriks ERHA, Backx FJG eds. *Leerboek Sportgeneeskunde*. Bohn Stafleu Van Loghum, Houten 1992:450-459.
 - 14) Caekebeke JFV, Zwetsloot CP, Jansen J, Saxena PR, Ferrari MD. Effect of sumatriptan on cranial bloodflow during migraine attacks. In Olesen J ed. *Migraine and Other Headaches: The vascular Mechanisms. Frontiers in Headache Research, Vol 1*. Raven Press, New York 1991: 331-334.
 - 15) Ferrari MD, Haan J, Blokland JAK, Minnee P, Zwinderman KH, Saxena PR. Tc-99m HM-PAO SPECT in migraine attacks without aura and effect of sumatriptan on rCBF. In Olesen J ed. *Migraine and Other Headaches: The vascular Mechanisms. Frontiers in Headache Research, Vol 1*. Raven Press, New York 1991:245-248.
 - 16) Zwetsloot CP, Caekebeke JFV, Jansen JC, Odink J, Ferrari MD. Blood Flow velocity changes in migraine attacks without aura: a transcranial doppler study. In Olesen J ed. *Migraine and Other Headaches: The vascular Mechanisms. Frontiers in Headache Research, Vol 1*. Raven Press, New York 1991:289-292.
 - 17) Ferrari MD. Sumatriptan (Imigran) bij migraine en cluster hoofdpijn. In Bolk JH, red.: *Vorderingen en praktijk*. Boerhaave Commissie voor PAOG, Rijks Universiteit, Leiden, 1991: 191-199.
 - 18) Ferrari MD. *Serotonin and Migraine: Biochemical, Pharmacological and Therapeutical Aspects*. (PhD-DSc thesis) Rijksuniversiteit Leiden 1992.
 - 19) Ferrari MD. Pros and cons of sumatriptan. In: Hogenhuis LAH, Steiner TJ (Eds.) *Headache and Migraine*. Bunge BV, Utrecht 1992:61-67.
 - 20) Caekebeke JFV, Ferrari MD. The vascular effects of sumatriptan during migraine attacks. In: Hogenhuis LAH, Steiner TJ (Eds.) *Headache and Migraine*. Bunge BV, Utrecht 1992: 53-61.
 - 21) Ferrari MD, Van Kempen GMJ. 5-HT and 5-HIAA in body fluids of migraine and tension headache patients. In: Olesen J, Saxena PR (Eds). *5-Hydroxytryptamine Mechanisms in Primary Headaches. Frontiers in Headache Research, Vol 2*, Raven Press, New York 1992: 189-199.
 - 22) Caekebeke JFV, Ferrari MD. Effect of sumatriptan on cranial blood flow velocity during and between migraine attacks. In: Olesen J, Saxena PR (Eds). *5-Hydroxytryptamine Mechanisms in Primary Headaches. Frontiers in Headache Research, Vol 2*, Raven Press, New York 1992: 273-277.
 - 23) Ferrari MD. Behandeling van migraine en cluster hoofdpijn. In Ferrari MD, Vecht CJ, Bosch DA, Roos RAC (eds). *Pijn in de Neurologie*. Boerhaave Commissie voor PAOG, Rijks Universiteit Leiden, 1993:117-125.
 - 24) Ferrari MD, Vecht CJ, Bosch DA, Roos RAC, eds. *Pijn in de Neurologie*. Boerhaave Commissie voor PAOG, Rijks Universiteit, Leiden 1993.
 - 25) Visser WH, Ferrari MD. Sumatriptan in de behandeling van migraine en cluster headache aanvallen. *Pijninformatarium* 1993: HP 1320-1 to 6.
 - 26) Ferrari MD. Biochemistry of tension-type headache. In: Olesen J, Schoenen J (Eds). *Tension-type headache: classification, mechanisms and treatment*. New York: Raven Press 1993:115-127.
 - 27) Ferrari MD. Biochemistry of tension type headache. In: Olesen J, Tfelt-Hansen P, Welch KMA (Eds). *The Headaches*. Raven Press, New York, 1993:455-463.
 - 28) Ferrari MD. Systemic biochemistry of migraine. In: Olesen J, Tfelt-Hansen P, Welch KMA (Eds). *The Headaches*. Raven Press, New York, 1993:179-185.
 - 29) Bax WA, Ferrari MD, Saxena PR. Serotonine-receptoren en werkingsmechanismen van anti-migrainemiddelen. *Pijninformatarium* 1993: FA 1800-1 to 13.
 - 30) Ferrari MD, Ensink FBN. Ueberblick zur Rolle der 5-HT₃-Rezeptorantagonisten in der Migränetherapie. In: Ensink FBM and Soyka D (Eds). *Migräne. Aktuelle Aspekte eines altbekannten Leidens*. Springer-Verlag, Berlin, 1994:379-390.

- 31) Ferrari MD, Haan J. Hoofdpijn. In: Heydra A, Koudstaal PJ, Roos RAC (Eds). *Leerboek Neurologie*. Bunge BV, Utrecht 1994:573-586.
- 32) Ferrari MD, Haan J. Pijn in het hoofd en het gelaat. In: Heydra A, Koudstaal PJ, Roos RAC (Eds). *Leerboek Neurologie*. Bunge BV, Utrecht 1994:289-596.
- 33) Ferrari MD, Terwindt GM, Visser WH, Reines SA. A placebo-controlled dose-ranging study of MK-462 versus sumatriptan in migraine. In: Clifford Rose F, (Ed.) *New advances of headache research:4*. London, Smith-Gordon and Company, 1994:205-207.
- 34) Haan J, Terwindt GM, Ophoff R, Frants RR, Ferrari MD. Is familial hemiplegic the hereditary form of basilar artery migraine? In: Clifford Rose F, (Ed.) *New advances of headache research:4*. London, Smith-Gordon and Company, 1994:31-33.
- 35) Jaspers NMWH, de Vriend RHM, Visser WH, Ferrari MD. Clinical differences between patients with and without headache recurrence after sumatriptan: a population-based study. In: Clifford Rose F, (Ed.) *New advances of headache research:4*. London, Smith-Gordon and Company, 1994:256-257.
- 36) Terwindt GM, Haan J, Ophoff RA, Frants RR, Ferrari MD. Genetic and clinical heterogeneity of familial hemiplegic migraine. In: Clifford Rose F, (Ed.) *New advances of headache research:4*. London, Smith-Gordon and Company, 1994:29-31.
- 37) Visser WH, Klein KB, Cox R, Marks SJ, Ferrari MD. An in-patient, placebo-controlled, dose ranging study study to investigate the efficacy and safety of oral doses of 311C90 in the acute treatment of migraine. In: Clifford Rose F, (Ed.) *New advances of headache research:4*. London, Smith-Gordon and Company, 1994:15-17.
- 38) Vriend RHM de, Jaspers NMWH, Visser WH, Ferrari MD. Clinical differences between between responders and non-responders to sumatriptan: a population-based study. In: Clifford Rose F, (Ed.) *New advances of headache research:4*. London, Smith-Gordon and Company, 1994:243-244.
- 39) Tfelt-Hansen P, Saxena PR, Ferrari MD. Ergot alkaloids. In: De Wolff FA (Ed). *Handbook of Clinical Neurology. Intoxications of the nervous System, Part 2*. Elsevier, Amsterdam, 1995:61-79.
- 40) Ferrari MD, Saxena PR. 5-HT₁ receptors in migraine pathophysiology and treatment. *Teaching Course: Headache*. Fifth Meeting ENS, München, June 1995:13-29.
- 41) Sandler M, Ferrari MD, Harnett S (Eds). *Migraine. Pharmacology and genetics*. London: Chapman & Hall, 1996.
- 42) Ferrari MD, Haan J, Terwindt GM, Ophoff RA, Frants RR (for the Dutch Migraine Genetics Research Group). Migraine and chromosome 19. In: F. Clifford Rose (ed). *Towards Migraine 2000*. Elsevier Science BV, 1996:25-35.
- 43) Ferrari MD. Middelen ter behandeling van migraine en cluster hoofdpijn. In: Sitsen et al (Red) *Farmacologie*. Utrecht: Wetenschappelijke Uitgeverij Bunge, 1996:106-111.
- 44) Ferrari MD, Visser WH. Headache recurrence after subcutaneous sumatriptan. In: Sandler M, Ferrari MD, Harnett S (eds). *Migraine: Pharmacology and genetics*, Chapman & Hall, London, 1996; ch 7: 82-93.
- 45) Frants RR, Ophoff RA, Terwindt GM, Urban C, Eijk R van, Haan J, Diener HC, Lindhout D, May A, Sandkuijl LA, Ferrari MD. Chromosome 19 in migraine with and without aura. In: Sandler M, Ferrari MD, Harnett S (eds). *Migraine: Pharmacology and genetics*, Chapman & Hall, London, 1996; ch. 21: 291-299.
- 46) Haan J, Terwindt GM, Ferrari MD. Genetics of migraine. In: Mathew N (Ed). *Advances in Headache: Neurologic Clinics*, 1997; 15;(1):43-61.
- 47) Ferrari MD, Haan J. Drug treatment of migraine attacks. In: Goadsby PJ, Silberstein SD (Eds.) *Headache. In Marsden CD, Asbury AK (series eds.) Blue Books of Practical Neurology*. Butterworth Heinemann Ltd, Oxford, UK, 1997: 117 - 130.
- 48) Visser WH, Ferrari MD. Sumatriptan in clinical practice. A 2-year review of its effects and limitations. In: Olesen J and Tfelt-Hansen P (Eds.). *Headache treatment: trial methodology and new drugs*. Lipincott-Raven, Philadelphia, USA, 1997:182-189.
- 49) Saxena PR, Ferrari MD, De Vries P, Villalón CM. Pharmacological overview of new 5-HT_{1D} receptor agonists in development for the acute treatment of migraine. In: Olesen J and Tfelt-Hansen P (Eds.). *Headache treatment: trial methodology and new drugs*. Lipincott-Raven, Philadelphia, 1997:292-242.
- 50) Ferrari MD. Discussion summary. In: Olesen J and Tfelt-Hansen P (Eds.). *Headache treatment: trial methodology and new drugs*. Lipincott-Raven, Philadelphia, 1997:299-301.
- 51) Ferrari MD and Haan J. *Alles over hoofdpijn en aangezichtspijn*. A.W. Bruna Uitgevers, B.V. Utrecht, 1997.
- 52) Roon KI, Petri H, Hehemann D, Ferrari MD. Chronische dagelijkse hoofdpijn: klinische verschijnselen en behandeling. In: Bolk JH, ed. *Vorderingen en praktijk*. Boerhaave Commissie voor PAOG, Rijksuniversiteit Leiden, 1997:51-61.
- 53) Ferrari MD, Haan J. Hoofdpijn. In: Hijdra et al (Red.) *Neurologie*. Maarssen: Elsevier/Bunge, 1998:555-

- 571.
- 54) Ferrari MD, Haan J. Pijn in het hoofd en gelaat. In: Hijdra et al (Red.) *Neurologie*. Maarssen: Elsevier/Bunge, 1998:571-579.
 - 55) Ferrari MD, Ochoa J. Pain and Headache. *Teaching Course 10*. Eight Meeting and tenth anniversary of the ENS, Nice, France, June 1998.
 - 56) Terwindt GM, Ophoff RA, Haan J, Sandkuijl LA, Frants RR, Ferrari MD. Migraine, ataxia and epileps: a challenging spectrum of genetic determined calcium channelopathies. *Education Program at the 50th Annual Meeting of the American Academy of Neurology* 1998;6AC.002:1-20.
 - 57) Ferrari MD. The triptan war anno 1998. *Education Program at the 50th Annual Meeting of the American Academy of Neurology* 1998;6AC.002:103-121.
 - 58) Ferrari MD, Roon KI. The Triptan War Anno 1999. *Pain 1999* - an updated review. Refresher course syllabus 1999;193-202.
 - 59) Ferrari MD, Roon KI. The Triptan War Anno 1999 In: Lipton RB (edit.). *Headache Therapy*. Education Program Syllabus American Academy of Neurology 1999; 5TP.001-22.
 - 60) Ferrari MD, Kors EE, Terwindt GM. Migraine- A Genetically Determined Cerebral Channelopathy. In: Welch KM (edit) *Scientific Basis of Migraine*. Education Program Syllabus American Academy of Neurology 1999; 2PC.008-1.
 - 61) Ferrari MD. The Economic Burden of Migraine to Society. *Migraine in Perspective* 1999; Adis Books 83-92.
 - 62) Ferrari MD, Haan J. Spanningshoofdpijn wordt veroorzaakt door spanningen. In: *Medische Misvattingen* van Everdingen JJ, Kaandorp CJE (eds). Bohn Stafleu Van Loghum, 2de druk 1999;133-134.
 - 63) Ferrari MD, Russel MB. Genetics of Migraine. In: Olesen J and Tfelt-Hansen P and Welch KMA (Eds.). *The Headaches*, Second Edition. Lippincott Williams & Wilkins, Philadelphia, 1999;30:241-254.
 - 64) Ferrari MD, Bach FW. Biochemistry of Systemic and Jugular Venous Blood. In: Olesen J and Tfelt-Hansen P and Welch KMA (Eds.). *The Headaches*, Second Edition. Lippincott Williams & Wilkins, Philadelphia, 1999;31:255-260.
 - 65) Bach FW, Ferrari MD. Biochemistry of Blood and Cerebrospinal Fluid in Tension-Type Headache. In: Olesen J and Tfelt-Hansen P (Eds.). *The Headaches*, Second Edition. Lippincott Williams & Wilkins, Philadelphia, 1999;78:605-613.
 - 66) Ferrari MD, van Vliet JA. Treatment of cluster headache attacks with sumatriptan. In: Olesen J and Goadsby PJ (Eds.). *Cluster Headache and Related Conditions*, Volume 9. Oxford University Press, UK, 1999;39:227-233.
 - 67) Ferrari MD. Cluster headache: prophylactics and the future: Discussion summary. . In: Olesen J and Goadsby PJ (Eds.). *Cluster Headache and Related Conditions*, Volume 9. Oxford University Press, UK, 1999;50:300-303.
 - 68) Ophoff RA, Terwindt GM, Ferrari MD, Frants RR. Cloning the P/Q-type Ca²⁺ Channel Gene for familial hemiplegic migraine. In: Olesen J and Bousser MG (Eds.). *Frontiers in headache research* (Volume 8). Genetics of Headache disorders. Lippincott Williams & Wilkins 2000; 115-122.
 - 69) Terwindt GM, Ophoff RA, van Eijk R, Vergouwe MN, Haan J, Frants RR, Sandkuijl LA, Ferrari MD. Affected sib-pair analysis in migraine: involvement of the familial hemiplegic migraine gene on 19p13 in migraine with and without aura. In: Olesen J and Bousser MG (Eds.). *Frontiers in headache research* (Volume 8). Genetics of Headache disorders. Lippincott Williams & Wilkins 2000; 129-134.
 - 70) Frants RR and Ferrari MD. Future of headache genetics. In: Olesen J and Bousser MG (Eds.). *Frontiers in headache research* (Volume 8). Genetics of Headache disorders. Lippincott Williams & Wilkins 2000; 267-272.
 - 71) Ferrari MD, Kors EE, Terwindt GM. Migraine – A genetic neurovascular channelopathy? In: Devor M, Rowbotham MC and Wiesenfeld-Hallin Z (Eds.) *Progress in Pain Research and management* (Volume 16). IASP Press, Seattle 2000;43:435-454.
 - 72) Ferrari MD, Roon KI. Triptans 2000. In: Newman LC (Ed). *Education Program Syllabus*, 2PC.007 Headache in adults I. AAN 2000;10-34.
 - 73) Ferrari MD, Roon KI. Triptans 2000. In: Goadsby P (Ed). *Education Program Syllabus*, 4TP.002 Headache therapy. AAN 2000;1-26.
 - 74) Ferrari MD, Kors EE, Terwindt GM. Migraine- a genetic neurovascular channelopathy? In: Welch KM (Ed). *Education Program Syllabus*, 2AC.007 Scientific basis of migraine. AAN 2000;24-43
 - 75) Ferrari MD. Which oral triptan to choose? In: Diener HC (Ed). *Drug treatment and other headaches*. Monographs in Clinical Neurosciences. Basel, Karger 2000;17:216-221.
 - 76) Ferrari MD and Haan J. **Alles over hoofdpijn en aangezichtspijn (updated edition)**. A.W. Bruna Uitgevers, B.V. Utrecht, 2000.
 - 77) Ferrari MD and Haan J. Genetics of Headache. in Silberstein SD, Lipton RB, and Dalessio DJ. *"Wolff's*

- Headache and other head pain**; 7th edition. Oxford University Press; Oxford, UK. 2001:73-84.
- 78) Goadsby PJ and Ferrari MD. Migraine a multifactorial neurovascular episodic channelopathy?. In Rose M and Griggs RC. *Channelopathies of the Nervous System*. Butterworth Heinemann; Oxford, UK 2001: 274-294.
 - 78) Kors EE, Terwindt GM, Ferrari MD, Haan J. Migraine, een genetische ziekte? In Knuistingh Neven A. *Hoofdpijn en Migraine*. van Zuiden Communications BV; Alphen a/d Rijn, 2001:4:49-56.
 - 79) Haan J, Ferrari MD. Migrainebehandeling: stapsgewijs of op geleide van de midas-score? In Knuistingh Neven A. *Hoofdpijn en Migraine*. van Zuiden Communications BV; Alphen a/d Rijn, 2001:5:57-64.
 - 80) Vliet van JA, Ferrari MD. Clusterhoofdpijn. In Knuistingh Neven A. *Hoofdpijn en Migraine*. van Zuiden Communications BV; Alphen a/d Rijn, 2001:16:155-166.
 - 81) Wiendels NJ, Haan J, Knuistingh Neven A, Ferrari MD. Chronisch dagelijkse hoofdpijn en overmatig gebruik van hoofdpijnmedicatie. In Knuistingh Neven A. *Hoofdpijn en Migraine*. van Zuiden Communications BV; Alphen a/d Rijn, 2001:17:167-176.
 - 82) Ferrari MD. Clinical efficacy and tolerability of the triptans: discussion summary. In Humphrey PPJ, Oleson J, Ferrari MD, eds. *The Triptans: novel drugs for migraine*. Oxford University Press; Oxford, UK 2001:280-282.
 - 83) Humphrey PPJ, Oleson J, Ferrari MD, eds. *The Triptans: novel drugs for migraine*. Oxford University Press; Oxford, UK 2001.
 - 84) Ferrari MD, Haan JJ. Migraine. In Ashbury H, et al (eds). *Diseases of the nervous system: clinical neuroscience and therapeutic principles*. [3rd edition]. Cambridge University Press, Cambridge, UK 2002:920-926.
 - 85) van Vliet JA, Haan J, Ferrari MD. *Clusterhoofdpijn*. Vorderingen en Praktijk; Boerhaave cursus; Leiden, 2002:11-19.
 - 86) Ferrari MD, Haan J. *The genetics of migraine: implication for treatment approaches*. In Fleischhacker WW, Brooks DJ. Eds. Stroke-Vascular Diseases. New York. J Neural Transm; [Supp] 2002: 63;111-127.
 - 87) Terwindt GM, Ferrari MD, Launer LJ. Effect of headache on quality of life. In Olesen J, Steiner TJ, Lipton RB, eds. *Frontiers in headache research series*. Oxford University Press; Oxford, UK, 2003:107-115.
 - 88) Knuistingh Neven A, Ferrari MD. Triptanen bij migraine en clusterhoofdpijn. In Bolk JH, ed. *Farmacotherapie*. Boerhaave cursus; Leiden, the Netherlands, 2003:39-49.
 - 89) Ferrari MD and Haan J. *Alles over hoofdpijn en aangezichtspijn (updated edition)*. A.W. Bruna Uitgevers, B.V. Utrecht, 2004.
 - 90) Haan J, van den Maagdenberg AMJM, Palotie A, Ferrari MD. Migraine genetics. In Mogil JS ed. *The genetics of Pain. Progress in pain research and management*; vol 28; IASP Press Seattle, USA; 2004: 193-210.
 - 91) Ellenbroek AA, Ferrari MD, van Ree JM, Sitsen JMA, Cools AR. Het centrale zenuwstelsel. In Sitsen JMA, Smits JFM, Smits P, Cohen AF, Bortel van LM eds. *Farmacologie*. Elsevier Gezondheidszorg, Maarssen. Nederland 2004: 91-188.
 - 92) Goadsby PJ, Ferrari MD. Headache. In Hunt SP, Koltzenburg M. eds. *The Neurobiology of Pain*, Oxford University Press; 2005: 333-375.
 - 93) Wiendels NJ, Ferrari MD. Chronic migraine. In Olesen J. ed. *The Classification and Diagnosis of Headache Disorders*. Oxford University Press; 2005:70-75.
 - 94) Wiendels NJ, Ferrari MD. Hoe vaak komt medicatie-afhankelijke hoofdpijn in Nederland voor? *Vademecum* permanente nascholing huisartsen, neurologie, 2005;23, nr. 22a
 - 95) Silberstein SD, Lipton RB, Goadsby PJ, Ferrari MD. *Hoofdpijn in de klinische praktijk*. Prelum Uitgevers, Maarn, 2005.
 - 96) Bach FW, Ferrari MD; Biochemistry of blood and cerebrospinal fluid in tension-type headaches. In Olesen J, Goadsby PJ, Ramadan NM, Tfelt-Hansen P, Welch KMA eds. *The Headaches*, third edition. Lippincott Williams & Wilkins, Philadelphia, 2006;75:669-679.
 - 97) Ferrari MD, Haan J, Palotie A. Genetics of Migraine. In Olesen J, Goadsby PJ, Ramadan NM, Tfelt-Hansen P. Welch KMA eds. *The Headaches*, third edition. Lippincott Williams & Wilkins, Philadelphia, 2006;28:251-269.
 - 98) Terwindt GM, Kors EE, Haan J, Vanmolkot KRJ, Frants RR, van den Maagdenberg AMJM, Ferrari MD. Genetics of migraine and other primary headaches. In Lipton R and Bigal M eds.. *Migraine and other headache disorders*. Informa Healthcare, Taylor & Francis Group. First edition, 2006;113-130.
 - 99) Ferrari MD, Goadsby PJ. Migraine as a cerebral ionopathy with abnormal central processing. In: Gilman S ed. *Neurobiology of Disease*. New York, USA: Elsevier, 2006: 333-348.
 - 100) Goadsby PJ, Dodick D, Lipton RB, Diener H-C, Tfelt-Hansen P, Ferrari MD, Almas M, Albert KS, Parsons B. CNS adverse events in patients treated with triptans. Side effect or symptom? In Olesen J. and

- Jensen TS eds. *From Basic Pain Mechanisms to Headache*. Oxford University Press; 2006:222-226.
- 101) Wiendels NJ, Ferrari MD. Treating migraine attacks asap: concept and methodological issues. In Cummings JL ed. *Progress in Neurotherapeutics and Neuropsychopharmacology*. Cambridge University Press; 2006, vol. 1:53-61.
 - 102) Ferrari MD, van den Maagdenberg AMJM, Frants RR, Goadsby PJ. Migraine as a Cerebral Ionopathy with Impaired Central Sensory Processing. In Waxman SG ed. *Moleculair Neurology*. New York, USA: Elsevier; 2007:439-461
 - 103) Ferrari MD and Dichgans. Genetics of Primary Headache. In Silberstein SD, Lipton RB and Dodick DW. *Wolff's Headache and Other Head Pain*; 8th edition. Oxford University Press; Oxford, New York. 2008:133-149.
 - 104) Ferrari MD and Koppen H. Clinically relevant designs and outcome measures for acute migraine trials. In Olesen J and Ramadan N. *Innovative Development for Headache Disorders*. Frontiers in Headache Research Volume 16. Oxford University Press; Oxford. 2008: 57-58.
 - 105) Barrett CF, van den Maagdenberg AMJM, Frants RR, Ferrari MD. Familial hemiplegic migraine. *Advances in Genetics*. Elsevier 2008;63: 57-83.
 - 106) Ellenbroek BA, Ferrari MD, Gerrits MAFM, Maassen van den Brink A, van Ree JM, Sitsen JMA, Zelissen PMJ. Het centrale zenuwstelsel. In Sitsen JMA et al. *Farmacologie*. 4th edition. Elsevier Gezondheidszorg, Maarssen 2009: 99-218.
 - 107) Gosso MF, Barrett CF, Van den Maagdenberg AMJM, Ferrari MD. *Pain 2010. An updated review; Refresher Course Syllabus*. IASP Press; Seattle, USA. 2010:239-255.
 - 108) Ferrari MD, Haan J. *Neurologie. Hoofdpijn*. Elsevier Gezondheidszorg, Amsterdam. 2010:301-313
 - 109) Ferrari MD, Haan J. *Neurologie. Pijn in hoofd en gelaat*. Elsevier Gezondheidszorg, Amsterdam. 2010:465-473.
 - 110) Van den Maagdenberg AMJM, Terwindt GM, Haan J, Frants RR, Ferrari MD. Genetics of headaches. *Handbook of Clinical Neurology*. Elsevier 2011;97:85-99.
 - 111) Benton S, Ferrari MD, Kirkham FJ, Goadsby PJ. *Stroke and Cerebrovascular Disease in Childhood*. ICNA, Mac Keith Press London 2011: 225-233.
 - 112) Ferrari MD. Migraine: Familial Hemiplegic Migraine. *Natuurkundige voordrachten 2010-2011 Koninklijke Maatschappij voor Natuurkunde*. 2011:109-120
 - 113) Ferrari MD. Hemiplegic Migraine and Channel disorders. *Encyclopedia of Neuroscience 2012. In Press*
 - 114) Eising E, De Vries B, Van den Maagdenberg AMJM, Ferrari MD. Genetic Studies in Migraine with Relevance to Other Pain Disorders. *Pain 2012:Refresher Courses, 14th World Congress on Pain (Ed Tracey I)*. IASP Press Seattle 2012:51-63
 - 115) Ferrari MD & J Haan. Hoofd- en Aangezichtspijn. *Klinische neurologie (Eds Kuks JBM & Snoek JW)*. Bohn Stafleu van Loghum 2012:321-328
 - 116) Meinders IH, Ferrari MD, Kruit MC. Iron accumulation in migraine. *The Migraine Brain: Imaging Structure and Function (Eds Borsook D, et al)*. Oxford University Press 2012:117-123
 - 117) Meinders IH, Ferrari MD, Kruit MC. Migraine and brain lesions. *The Migraine Brain: Imaging Structure and Function (Eds. Borsook D, et al)*. Oxford University Press 2012:123-136
 - 118) Weller CM, de Vries B, Terwindt GM, Ferrari MD, Haan J, van den Maagdenberg AMJM. Migraine Genetics. *The Migraine Brain: Imaging Structure and Function (Eds. Borsook D, et al)*. Oxford University Press 2012:145-169
 - 119) Haan J, Ferrari MD. Hoofdpijn. In Huygen FJPM et al. *Handboek Pijngeneeskunde*. De Tijdstroom, Utrecht 2014: 141-155
 - 120) Tolner EA, et al. Genetics of monogenic and complex migraine. In *Neurobiological Basis of Migraine* (Eds. T Dalkara & MA Moskowitz) Wiley Blackwell 2017: 233-251.
 - 121) Onderwater G.L.J., van Dongen R.M., Zielman R, Terwindt G.M., and Ferrari M.D. Cerebrospinal Fluid in Primary Headaches. *Cerebrospinal Fluid in Neurologic Disorders* (Eds: F. Deisenhammer, C.E. Teunissen, and H. Tumani). *Handbook of Clinical Neurology*, Vol. 146 (3rd series - Editors M.J. Aminoff, F. Boller, and D.F. Swaab). Elsevier 2017: 267-285

D) INVITED LECTURES AND CHAIRS (International)

1986

Difference of methionine-enkephalin levels in platelets and plasma of classic and common migraine and tension headache, and changes during migrainous attacks. 6th International Migraine Symposium, *London*, 14-16 Oct. '86.

1987

Monoamine oxidase, phenosulphotransferase and serotonin metabolism in common and classic migraine and tension headache. Third International Congress of the International Headache Society, **Florence**, 22-25 Sept.'87.

1988

Platelets and Migraine. Migraine: An update on its Mechanisms, Management and Future Therapy. Royal Society of Medicine, **London**, 4-5 May '88.

Urinary excretion of biogenic amines in migraine and tension headache. 7th Migraine Trust International Symposium, **London**, 5th-8th Sept.'88.

1989

Glutamate and migraine. CNS dept. Sandoz, **Basel** 28-2-89.

Subcutaneous GR43175, a 5HT₁-like receptor agonist, in the treatment of acute migraine: an international study. 4th International Headache Congress IHS. **Sydney** 14-18 Okt.'89.

ICS 205-930, a 5HT₃-receptor antagonist, in the prophylaxis of migraine: a multicenter study. 4th International Headache Congress IHS. **Sydney** 14-18 Okt.'89.

1990

Cerebral Bloodflow Velocity in migraine attacks and changes induced by sumatriptan. Seminar, Henry Ford Hospital, **Detroit** 19/2/90.

Glutamate and serotonin in migraine. Seminar, Massachusetts General Hospital, Harvard Medical School. **Boston** 22-2-90.

5HT₃ receptor antagonists and migraine therapy. Symposium Migraine in the Nineties; 2nd Meeting European Neurological Society. **Brighton** 30/6-5/7-1990.

Subcutaneous GR43175, a 5HT₁-like receptor agonist, in the treatment of acute migraine. 8th Migraine Trust International Symposium, **London**, 26th-29th Sept. 1990.

Tc-HMPAO SPECT in migraine attacks without aura. 1st International Headache Research Seminar: "Cerebral Blood Flow in Migraine, Tension-Type Headache and Cluster Headache". **Copenhagen** 23-25/11, 1990.

Effect of sumatriptan on rCBF during migraine attacks without aura as measured by Tc-HMPAO. 1st International Headache Research Seminar: "Cerebral Blood Flow in Migraine, Tension-Type Headache and Cluster Headache". **Copenhagen** 23-25/11, 1990.

Bloodflow velocity changes in the intra- and extra-cranial cerebral bloodvessels in migraine attacks without aura and effect of sumatriptan. 1st International Headache Research Seminar: "Cerebral Blood Flow in Migraine, Tension-Type Headache and Cluster Headache". **Copenhagen** 23-25/11-1990.

1991

Clinical experience with injectable sumatriptan. The Royal Society of Medicine, **London**, 18/1/1991.

5-HT_{1,2,3} mechanisms in migraine treatment. The possible role of sumatriptan. Winter Neurological Seminar Spanish Neurological Society, **Candanchu, Spain**, January 29, 1991.

Treatment of migraine attacks with sumatriptan. The pathophysiology and therapy of the migraine attack, The Belgian Migraine Society and the Belgian Neurology Association, **Brussels**, April 26, 1991.

Effect of sumatriptan on cerebral bloodflow during and outside migraine attacks: A Tc-99m HMPAO SPECT and transcranial doppler study. **Washington**, June 29 - July 3, 1991.

Chair: Clinical Pharmacology Session, Int. Headache Congress, IHS. **Washington**, 6/29-7/3, 1991.

Treatment of migraine attacks with sumatriptan. 3rd National Pain Congress *Istanbul* 4/10/91.

Neurogenic inflammation and the mechanism of action of sumatriptan. *Leuven* (Katholieke Universiteit) 10/10/91.

Circulating 5-HT and 5-HIAA excretion in migraine and other primary headaches. 2nd International Headache Research Seminar: "5-Hydroxytryptamine Mechanisms in Primary Headaches". *Copenhagen*, Nov. 22-24, 1991.

1992

5-HT and its role in migraine. Sumatriptan Symposium. *Copenhagen*, Jan. 24, 1992.

Serotonin, serotonin agonists and migraine. Headache in the decade of the brain. *Philadelphia*, March 7, 1992.

New advances in the treatment of migraine. Advances in Biology and Pharmacology of Headache. American Academy of Neurology. *San Diego*, May 2, 1992

Pathophysiology of migraine. First International Conference of the European Headache Federation. *Bremen*, June 24-27, 1992.

Headache in the Netherlands. First International Conference of the European Headache Federation. *Bremen*, June 24-27, 1992.

Science and practice: mechanisms in migraine. The 9th Migraine Trust International Symposium. *London*, September 7-10, 1992.

Clinical trials in migraine: planning, pitfalls and implications for pharmacological research. Second International Symposium on Serotonin. *Houston*, September 15-18, 1992.

Pathophysiology and treatment of migraine. First European Summer School: Headache and Related Disorders. *Antalya*, October 29-Nov. 4, 1992.

Biochemistry of tension type headache. Third International Headache Research Seminar. Tension Type Headache: Classification, Mechanisms and Treatment. *Copenhagen*, Nov. 27-29, 1992.

Chair: Central mechanisms of tension type headache. Third International Headache Research Seminar. Tension Type Headache: Classification, Mechanisms and Treatment. *Copenhagen*, Nov. 27-29, 1992.

1993

Epidemiology of migraine: clinical, societal and economic issues. Round Table Conference. *Coral Cables, Florida*, Jan. 28-31, 1993.

Vascular changes in migraine. Symposium "Advances in human brain imaging". *Amsterdam*, April 2, 1993.

Treatment of headache. Teaching Course 7th World Congress on Pain (IASP). *Paris*, August 22-27, 1993.

Genetics of migraine. 6th International Headache Congress of the International Headache Society. *Paris*, August 26-29, 1993.

Chair: Poster Session Pathophysiology. 6th International Headache Congress of the International Headache Society. *Paris*, August 26-29, 1993.

Sumatriptan: from clinical trials to clinical practice. 15th World Congress of Neurology (World Federation of Neurology). *Vancouver*, Sept. 4-10, 1993

Pathophysiology of Migraine. Postgraduate Course Neurology University of Leuven. *Leuven*, Sept 25, 1993.

Lectures at General Hospitals and University Hospitals. Hongkong Brain Foundation and Neurological Society. *Hongkong*, November 9-12, 1993.

Lectures at General Hospitals and University Hospitals. *Singapore*, November 13-15, 1993.

1994

Genetics of migraine. American Academy of Neurology. *Washington* USA, April 30, 1994.

Drug Trial Analysis. 3rd Summer Course on Headache and Related Disorders, European Headache Federation (EHF). *Oporto*, Portugal, September 15-18, 1994.

Drug abuse in Headache. *ibid.*

Pharmacological Basis of the Treatment of Primary Headaches (chairperson). *ibid.*

5-HT and Migraine. Dept. of Neurology, University of Essen, *Essen*, Germany, December 7, 1994.

Acute Migraine Therapy. 10 th Migraine Trust Symposium. *London*, U.K. September 5-8, 1994.

Transcranial Doppler Measurements after Sumatriptan. European Neurological Society. 4th Meeting, *Barcelona*, Spain, June, 1994.

Clinical Trial Methodology: Acute Treatment of Migraine Attacks. 2nd Congress European Headache Federation. *Liège*, Belgium, June 15-18, 1994.

Food, Wine and migraine. *ibid.*

Clinical Features and pathophysiology of Migraine. ECPR. *Gent*, Belgium, August 25, 1994.

1995

Genetics and Epidemiology of Migraine. Second International Course in Advances in Epidemiology and Genetics of Neurologic Diseases. Erasmus University Medical School, *Rotterdam*, The Netherlands, March 1995.

Genetics of migraine: Chair. "Migraine research - towards the third millennium". *Malaga*, Spain. May 18-21, 1995.

Headache recurrence after 5HT_{1D} receptor agonist treatment. *Ibid.*

Rational pharmacotherapy of migraine. 5th Meeting of the European Neurological Society. *München*, Germany, June 17-21, 1995.

Genetics of Migraine. 2nd Leeds Castle International Workshop of the Migraine Trust. *Leeds Castle*, U.K., June 4-7, 1995.

Overview of migraine genetics. 37th Annual Scientific Meeting of the American Association for the Study of Headache. *Boston*, USA, June 23-25, 1995.

Arnold Friedman distinguished clinician/researcher award: Serotonin, migraine and the new serotonin agonists. *Ibid.*

Ergotamine. 4th Summer School on Headache and related disorders, European Headache Federation, *Trinity College, Cambridge*, August 29-September 3, 1995.

Treatment of cluster headache and long term outcome. *Ibid.*

New treatments for migraine. 1st Congress of the European Federation of Neurological Societies. *Marseille*, France, September 9-14, 1995.

The genetics of migraine and other headaches: chair. 7th International Headache Congress of the International Headache Society. *Toronto*, Canada, September 16-20, 1995.

Methodology of clinical trials in headache. *Ibid.*

Sumatriptan. 6th International Headache Research Seminar: Headache Treatment. Trial methodology and new drugs. *Copenhagen*, Denmark. November 17-19, 1995.

1996

Genetics and Epidemiology of Migraine. Third International Course in Advances in Epidemiology and Genetics of Neurologic Diseases. Erasmus University Medical School, *Rotterdam*, The Netherlands, 18-20 March 1996.

Epidemiology of headache: chair. 3rd European Headache Conference of the European Headache Federation. *Sardinia*, Italy, June 5-9, 1996.

Outcome measures for Early Treatment of Migraine Attacks. Workshop: "Methodology of Migraine Trials - Towards New Concepts". *Rome*, Italy, October 27-29, 1996

Migraine genetics: the latest developments. Sixth Meeting of the European Neurological Society. *The Hague*, The Netherlands, June 8-12, 1996.

Genetics of migraine. Centre Hospitalier de Luxembourg. *Luxembourg*, January 26, 1996

Pitfalls in migraine trials. The 38th Annual Scientific Meeting of the American Association for the Study of Headache. *San Diego* U.S.A., May 31-June 2, 1996

Wine and Headache. *Ibid.*

Pitfalls and practical suggestions for the use of sumatriptan. Teaching Course, 2nd Congress of the European Federation of Neurological Sciences. *Rome*, Italy, October 30-November 3, 1996.

Migraine Session: Chair. *Ibid.*

Migraine - A cerebral channelopathy. Third Annual Symposium on Human Molecular Genetics. *Antwerp*, Belgium, December 13, 1996.

1997

Genetics of migraine. Kopfschmerzkongress 1997, Deutsche Migräne- und Kopfschmerzgesellschaft E.V & Deutsche Gesellschaft für Neurologie. *Berlin*, Germany, September 7, 1997.

Pharmacological treatment of acute migraine attacks. European Headache Federation Summer School. *Copenhagen*, April 24, 1997.

Genetics and headache - what's new? Short Course on Headache, Institute of Neurology, University of London, The National Hospital for Neurology and Neurosurgery, Queen Square, *London*, UK, May 14, 1997.

Treatment of acute attacks of migraine. Short Course on Headache, Institute of Neurology, University of London, The National Hospital for Neurology and Neurosurgery, Queen Square, *London*, UK, May 14, 1997.

H.G. Wolff Award Lecture: "Involvement of a calcium channel gene in Familial Hemiplegic Migraine and migraine with and without aura". The 39th Annual Scientific Meeting of the American Association for the Study of Headache. *New York*, USA, 21 June, 1997.

Genetics of Migraine. 16th World Congress of the World Federation of Neurology. *Buenos Aires*, Argentina, September 16, 1997.

Hemiplegic Migraine. 49th Annual Meeting Spanish Neurology Society, *Barcelona*, Spain, December 10, 1997.

Ion channels and their relevance for migraine. Chair, 8th International Headache Research Seminar: Genetics of headache disorders. *Copenhagen*, Denmark, November 21-23, 1997.

1998

Current efforts to improve diagnosis and treatments. Chair, Improving migraine management. A consensus symposium. **Washington, DC**, U.S.A. October 2+3, 1998.

The genetics of migraine. Meeting of the Royal Society of Medicine: Section of Clinical Neurosciences. Headache: Mechanisms and Management. **London**, U.K., February 5, 1998.

Migraine, ataxia, and epilepsy: a challenging spectrum of genetic determined calcium channelopathies. 1998 Forum Meeting of European Neuroscience. **Berlin**, Germany, June 27-July 1, 1998.

Migraine: a neurovascular channelopathy. Teaching Course at the Eighth Meeting and Tenth Anniversary of the European Neurological Society, **Nice**, France. June 6-10, 1998.

Pain and Headache. Chair, Teaching courses at the Eighth Meeting and Tenth Anniversary of the European Neurological Society, **Nice**, France. June 6-10, 1998.

Genetics of migraine and implications of gene discovery. Teaching Course Scientific Basis of Migraine. 50th Annual meeting American Association of Neurology. **Minneapolis**, U.S.A. April 25-May 2, 1998.

5-HT_{1B}/5-HT_{1D} agonists in acute migraine - a critical appraisal. Teaching Course Headaches in Adults. 50th Annual meeting American Association of Neurology. **Minneapolis**, U.S.A. April 25-May 2, 1998.

Genetics of migraine. Third Congress of the European Federation of Neurological Societies. **Sevilla**, Spain. September 19-25, 1998.

Selection of triptan for migraine. Teaching Course Managing difficult headaches. Third Congress of the European Federation of Neurological Societies. **Sevilla**, Spain. September 19-25, 1998.

The triptan war. Fourth IUPHAR Satellite Meeting on Serotonin. **Rotterdam**, 25 juli 1998.

Migraine genes. Symposium Migraine: a genetic disease of cerebral ion channels? **Liège**, Belgium. February 19, 1998.

Triptan War. Symposium Migraine: a genetic disease of cerebral ion channels? **Liège**, Belgium. February 19, 1998.

Sumatriptan in the acute treatment of cluster headache. 9th International Headache Research Seminar: Cluster headache and related conditions. **Copenhagen**, November 20-22, 1998.

Cluster headache: prophylaxis and the future. Chair, 9th International Headache Research Seminar: Cluster headache and related conditions. **Copenhagen**, November 20-22, 1998.

Genetics of Migraine. Annual meeting Spanish Neurologists. Decade of the Brain. **Barcelona**, Spain; 17 December 1998.

Genetics and pathophysiology of migraine. Colombian Congress of cranio-facial pain. University of Cartagena, **Cartagena**, Colombia. 27 November 1998.

5-HT₁ Agonists - The Triptan War. Colombian Congress of cranio-facial pain. University of Cartagena, **Cartagena**, Colombia. 27 November 1998.

1999

Are Preclinical Profiles Predictors of Clinical Efficacy? Satellite Symposium III New Migraine Drugs: How do we know if they work? -The 41st Annual Scientific meeting of the American Association for the Study of Headache. **Boston**, Massachusetts. 11 June 1999.

Introduction and Measuring Relief of Pain and Associated Symptoms. The 41st Annual Scientific meeting of the

American Association for the Study of Headache. **Boston**, Massachusetts. 12 June 1999.

Future strategies. The 41st Annual Scientific meeting of the American Association for the Study of Headache. **Boston**, Massachusetts. 12 June 1999.

The Genetics of Migraine. Headache Now 1999 Symposium. The American Association for the Study of Headache. **San Juan**, USA. 22-24 January 1999.

Migraine, ataxia, and epilepsy: A challenging spectrum of genetic determined calcium channelopathies. Advances in Ion Channel Research. An International Symposium addressing Ion Channels in Pain and Neuroprotection. **San Francisco**, USA. 17 March 1999.

What is migraine? – A character of disease, symptoms, and genes, - a new approach to the study and research of migraines. Migraine Summit Forum. **Tokyo**, Japan. 10 April 1999.

Assessing the overall efficacy of acute migraine treatments. Satellite Symposium. 9th Congress of the International Headache Society. **Barcelona**, Spain. 22-26 June 1999.

How to Evaluate the New Triptan's chair. Teaching Course III. 9th Congress of the International Headache Society. **Barcelona**, Spain. 22-26 June 1999.

Migraine genes. Introduction lecture. 9th Congress of the International Headache Society. **Barcelona**, Spain. 22-26 June 1999.

Pathophysiology of Migraine: Genetics and canalopathies. 10th Panamerican Congress of Neurology and 4th Colombian Congress of Neurology. **Colombia**, 12 October 1999.

The war of the triptans-metaanalysis. 10th Panamerican Congress of Neurology and 4th Colombian Congress of Neurology. **Colombia**, 12 October 1999.

Curso de Actualización. Aplicaciones Clínicas de la genética molecular. La Universidad de Costa Rica, Facultad de Medicina. **San Jose**, Costa Rica. 1-2 December 1999.

Genética de la Migraña. La Asociación Costarricense de Ciencias Neurológicas. La Universidad de Costa Rica. **San Jose**, Costa Rica. 2 December 1999.

Genetics of Migraine. Highlightsymposium-Kopfschmerz. Deutscher Schmerzkongress 1999. **München**, Deutschland. 21 October 1999.

Triptans: which one when? 4th Congress of the European federation of Neurological Societies. **Lisbon**, Portugal. 8 September 1999.

Migraine, A Genetically determined Neurovascular Chanellopathy. University of Western Ontario Neurosciences Grand Rounds. **London**, Ontario, Canada. 2 November 1999

The Triptan Wars. Current Concepts in Migraine. Western Ontario Neurosciences Grand Rounds. **Vancouver**, Ontario, Canada. 2 November 1999

Migraine- Pathophysiology. Neuroscience Grand Rounds. Vancouver Hospital, Dept. of Medicine. **Vancouver**, Canada. 3 November 1999.

Migraine Genetics: What are the implications for the mechanism and therapy of migraine headache. Western Ontario Neurosciences Grand Rounds. **Vancouver**, Ontario, Canada. 3 November 1999.

Triptans and Beyond: Advances in Acute Treatment. Group Discussion. Western Ontario Neurosciences Grand Rounds. **Edmonton**, Ontario, Canada. 3 November 1999.

New Migraine Treatments: How to use them in the clinic. Western Ontario Neurosciences Grand Rounds. **Calgary**. 4 November 1999.

Migraine Genetics: What are the implications for the mechanism and therapy of migraine headache. Western Ontario Neurosciences Grand Rounds. **Toronto**, Ontario, Canada. 5 November 1999.

2000

Headaches in Adults I: Acute Therapies. American Academy of Neurology, 52nd Annual Meeting. **San Diego**.USA. 30 April 2000.

Scientific Basis of Migraine: Update on the genetics of Migraine. American Academy of Neurology, 52nd Annual Meeting. **San Diego**, USA. 30 April 2000.

Headache Therapy: Evaluating dihydroergotamine and the triptans. American Academy of Neurology, 52nd Annual Meeting. **San Diego**, USA. 2 May 2000.

Rizatriptan and other triptans in the treatment of acute migraine attacks. The 8th Pan Arab Union of neurological sciences conference. **Beirut**, Lebanon. 13-16 April 2000.

Mechanisms of migraine-pathogenesis. Genetic Component. 21st Century prevention and management of migraine headaches. NIH workshop. **Bethesda**, USA. 8 June 2000.

Mechanisms of migraine-pathogenesis. Triptan Meta Analysis. 21st Century prevention and management of migraine headaches. NIH workshop. **Bethesda**, USA. 9 June 2000.

Migraine – a multifactorial episodic neurovascular channelopathy. World Headache 2000. **London**, UK. 4 September 2000.

Did Picasso suffer from migraine auras? World Headache 2000. **London**, UK. 7 September 2000.

World Headache 2000. Chair late breaker session. London, UK. 7 September 2000.

Evaluation of the clinical trials for the treatment of acute headache. 19th Brazilian Congress of Neurology. **Salvador**, Brasil. 7-12 October 2000.

Migraine a channelopathy. 19th Brazilian Congress of Neurology. **Salvador**, Brasil. 7-12 October 2000.

The Triptans: novel drugs for migraine. Clinical efficacy and tolerability of the triptans (part I). Chair 10th Int Headache Research Seminar. **Copenhagen**, Denmark. 2 December 2000.

The Triptans: novel drugs for migraine. Clinical efficacy and tolerability of the triptans (part II). Chair 10th Int Headache Research Seminar. **Copenhagen**, Denmark. 2 December 2000.

The Triptans: novel drugs for migraine. Meta-analysis of the triptans. 10th Int Headache Research Seminar. **Copenhagen**, Denmark. 3 December 2000.

2001

Interdisziplinäres Schmerzkolloquium: Migräne und Kopfschmerzen aktuell. UniversitätsSpital Zürich. **Zürich**, Switzerland. 25 Januar 2001.

Lecture Genetics of Migraine; Genetics Department of the Trinity College Dublin. **Dublin**, Ireland. 16-18 February 2001.

Educational course; how to diagnose and manage migraine. XVII World congress of Neurology. **London**, UK. 17 June 2001.

Plenary lecture; genetics of headache. XVII World congress of Neurology **London**, UK. 19 June 2001.

Liberty from Headache. International Headache Society 2001. **New York**, USA. June 29 – July 2, 2001.

Migraine genes. Autumn Meeting of the Belgian Neurology Society. *Spa*, Belgium. 27 October 2001.

Triptans in Migraine: from meta-analyses to clinical practice. *Spa*, Belgium. 28 October 2001

The genetics of migraine: implications for treatment approaches. CNS Symposium. *Barcelona*, Spain. 1 December 2001.

Migraine may not be harmless for the brain: a population based MRI study in 435 subjects. XVI Congresso Nazionale Società Italiana. *Chieti*, Italy. 14 juni 2001.

2002

Triptan Meta-analysis: methodology and Treatment Implications. Panel Discussion. 44th Meeting ASH. *Seattle*, USA. 22-23 June 2002.

Treating Migraine; Acute Treatment (best practice). 14th Migraine Trust International Symposium. *London*, UK. 23-26 September 2002.

Teaching Course. 14th Migraine Trust International Symposium. *London*, UK. 23-26 September 2002.

From Migraine patients to migraine mice.....and back! The Migraine Trust Lecture. 14th Migraine Trust International Symposium. *London*, UK. 23-26 September 2002.

How do I diagnose and manage Migraine patients? Congress of Japanese Neurologists. *Tokyo*, Japan. 14 May 2002.

2003

Migraine as a channelopathy. 5th International Bakirkoy Days. *Istanbul*, Turkey. 13-15th March 2003.

Which triptan to choose. 5th International Bakirkoy Days. *Istanbul*, Turkey. 13-15th March 2003.

How to select between different treatments. 1st North American/European Headache Symposium, University of South Florida. *Valencia*, Spain. 14-15 March 2003.

Migraine Genes. European Headache Federation (EHF) *Istanbul*, Turkey. 6th June 2003.

Genetics of Headache. European Neurological Society (ENS) *Istanbul*, Turkey. 18th June 2003.

Familial Hemiplegic Migraine. Presidential Symposium 45th Annual Scientific Meeting American Headache Society (AHS). *Chicago*, Il, USA. 19-22 June 2003.

Presidential Symposium: Role of the Brainstem in Migraine: Chair & introductory lecture. 11th Congress of the International Headache Society (IHS) *Rome*, Italy. 13-16 September 2003.

From migraine genes to migraine mice. 11th Congress of the International Headache Society (IHS) *Rome*, Italy. 13-16 September 2003.

International Symposium on Headache, *Lucknow*, India, 1-2 November 2003:

- From migraine patient to migraine mice, and back
- Unusual headaches in children;
- Prophylactic therapy of migraine.

2004

Chronic migraine and related unofficial diagnoses. 13th International Headache Research Seminar, *Copenhagen*, Denmark. 26-28 March 2004.

From migraine genes to migraine mice ... and back. 46th Annual Scientific Meeting American Headache Society, **Vancouver**, BC, Canada. 10-13 June 2004.

7th Congress of the European Headache Federation:

- Chair: Debate between USA and Europe: Guidelines for migraine treatment.
- Opponent: Debate: There is currently sufficient evidence to propagate early treatment for migraine attacks.
- Lecture: Can you diagnose me?

Rotterdam, the Netherlands. 16-19 June 2004.

The molecular biology of migraine: new avenues for treatment? Teaching course headache and pain. Chairperson. 8th Congress of the European Federation of Neurological Societies, **Paris**, France. 4-7 September 2004.

15th Migraine Trust International Symposium, **London**, UK. 20-23 September 2004:

- Teaching Course: Recognising primary headaches. A video case-based session.
- Chair: The Migraine Trust Lecture by PR Saxena: From serotonin to sumatriptan and beyond.
- Lecture: Migraine is a risk factor for sub-clinical brain lesions.

From migraine genes to migraine mice ... and back. 77. Kongress der Deutschen Gesellschaft für Neurologie mit Fortbildungsakademie, **Düsseldorf**, Germany. 6-9 October 2004.

Migraine is a risk factor for sub-clinical brain lesions. XVIII Congresso Nazionale della Società Italiana per lo Studio delle Cefalee, **Taormina**, Italy. 7-10 October 2004.

2005

The Royal Society of Medicine, Meeting of the Medical Genetics Section: Common Neurology, Uncommon Genes. Migraine and cluster headache. **London**, UK. 11 February 2005.

UCLA Medical Center, Invited pathology/neurology grand rounds speaker: Migraine, from patients to transgenic mouse models, **Los Angeles, CA**, USA. 30 March 2005.

UCLA Medical Center, seminar: Did Picasso suffer from migraine aura?, **Los Angeles, CA**, USA. 31 March 2005.

UCLA Medical Center, seminar: can you diagnose me? **Los Angeles, CA**, USA. 31 March 2005.

Diagnosing Headache in 2005: Current tools and a glimpse of the future; XVI Ottorino Rossi Award Conference; Chairman session on migraine genetics (Eurohead project), **Pavia**, Italy. 19-20 May 2005.

European Pain School 2005, Chronic Pain a Disease: The Role of Genes; Headache syndromes: mechanisms, phenotypes, treatment and genes, **Siena**, Italy. 10 June 2005.

47th Annual Scientific Meeting of the American Headache Society: Migraine and subclinical brain lesions: a clinical perspective, **Philadelphia, PA**, USA. 23-26 June 2005.

9th Congress of the European Federation of Neurological Societies EFNS 2005 **Athens**, Greece. 17-20 September 2005

- Lecture: From migraine patients to migraine genes: why do patients get attacks?
- Course Director of Teaching Course on: From headache syndromes to headache treatment.
- Lecture: Management of headache syndromes: tips & tricks.

XIX Congresso Nazionale of the Società Italiana per lo Studio delle Cefalee, Lettura magistrale: Headache genetics: new genes and loci, **Padova**, Italy. 29 September 2005.

Japanese Neurology Association Meeting 2005: Migraine as a progressive disorder, **Kagoshima**, Japan, 26 June 2005.

12th Congress of the International Headache Society IHC **Kyoto**, Japan, 9-12 October 2005

- Lecture: Migraine as an ion-transporter disorder.
- Lecture: Can you diagnose me?

XVIIIth World Congress of Neurology **Sydney**, Australia. 5-11 November 2005.

- Chair: Channelopathies Session
- Lecture: Migraine
- Lecture: Periodic and progressive ataxias
- Lecture: Genetic basis of primary headache disorders.

2006

VI Corso Nazionale di Formazione Multidisciplinare sulle Cefalee: Migraine and white matter lesions, **Sorrento**, Italy. 23-25 March 2006.

8th European Headache Federation EHF Congress **Valencia**, Spain. 26-29 April 2006.

- EHF Lecture: Migraine in the 21st Century
- Chair: Controversy: is migraine a progressive disorder?
- Educational symposium: advances in genetics of primary headaches; overview
- Lecture: Is migraine harmful to the brain?

II Congresso Nazionale ANIRCEF, le Basi Scientifiche delle Cefalee **Bologna**, Italy. 17-20 May 2006.

- Lecture: Genetics of headache
- Lecture: The placebo effect in migraine

Sixteenth Meeting of the European Neurological Society **Lausanne**, Switzerland. 27-31 May 2006.

- Chair: Paroxysmal neurological disorders
- Lecture: Headache

5th Congress of the European Federation of IASP Chapters (EFIC), Pain in Europe V **Istanbul**, Turkey. 13-16 September 2006.

- Chair: Migraine genes and mechanisms: three painful questions
- Lecture: Migraine as a cerebral ionopathy – why do migraineurs get attacks?

16th Migraine Trust International Symposium **London**, UK. 18-20 September 2006

- Teaching course: ‘Can you treat me?’, Case of primary headache #1
- Satellite symposium 1: new challenges in migraine; Triggers in migraine: facts and fiction
- Chair Macdonald Critchley Lecture

4. Zürcher Kopfweh-Symposium zum 40. Geburtstag der Kopfwehsprechstunde, **Zurich**, Switzerland. 28 September 2006: Migraine as a Cerebral Ionopathy.

2007

16th International Headache Research Seminar **Copenhagen**, Denmark. 23-25 March 2007:

- Chair: Session on screening models
- Lecture: Session on trials methodology: clinically relevant outcome measures for acute migraine trials

Frontiers in Pain Research Lecture. McGill University **Montreal**, Canada. 14 February 2007: Migraine as a Cerebral Ionopathy

Visiting Professor Lecture. Rosalind Franklin University of Medicine and Science **Chicago**, USA. 5 June 2007: Migraine pathogenesis: from genes to mechanisms

Cleveland Clinic. **Cleveland** USA. 4 June 2007:

- Grand Rounds: From Migraine Genes to Migraine Mechanisms
- Grand Rounds Residents: Brain Lesions in Migraine

EFIC European Pain School 2007. University of Siena **Siena**, Italy. 17-24 June 2007:

- Lecture: From Migraine Genes to Migraine Mechanisms
- Lecture: Migraine a Progressive Disorder

11th Congress of the European Federation of Neurological Societies EFNS 2007 **Brussels**, Belgium. 25-28 August 2007:

- Teaching course: Diagnosis and management of headache patients: an advanced course
- Chair and Convenor
 - Lecture: Common Errors

49th Annual Scientific Meeting American Headache Society **Chicago**, USA. 7-10 June 2007:

- Debate: Migraine: A Cure is a Fantasy and Not Achievable

13th Congress of the International Headache Society 2007 **Stockholm**, Sweden. 28 June-1 July 2007:

- Chair: Session on genetics and co-morbidity
- Lecture: Migraine, from genes to mechanisms.

NEO '07 Bienal Multidisciplinar en Neurociencia. **Barcelona**, Spain. 13-14 September 2007: New insights on migraine genetics

University of Florida VA Medical Center. **Gainesville, Florida** USA. 25 September 2007:

- Grand Rounds: Migraine: Pathogenesis from genes to mechanisms

Mayo Clinic Hospital. **Scottsdale, Arizona** USA. 31 October 2007:

- Grand Rounds: Migraine: Pathogenesis from genes to mechanisms

American Headache Society. **Phoenix Arizona** USA. 2 November 2007:

- Lecture: Migraine Genetics: Recent Discoveries
- Debate: Headache Prevention: Is Single or Multiple Agent Treatment Preferable?

Harvard Medical School. Neurology Grand Rounds, **Boston**, USA:

From migraine genes to migraine mechanisms

JS – Sixty. **Liège**, Belgium. 15 December 2007: Migraine, The Brain and Jean Schoenen

- Chair : afternoon sessions
- Debate: Controversies: Hormonal and other environmental influences are more important than Genetics in the common forms of migraine

2008

University of Leuven Seminars: Migraine genes and mechanisms. **Leuven**, Belgium 31 January, 2008.

Ospedale Sacro Cuore – Don Calabria. La Cefalea nelle Epoche della Vita: **Negrar-Verona, Italy**, 3 May 2008:

- Lecture: The genetics of migraine

50th Annual Scientific Meeting American Headache Society: Top Advances in the Field of Headache, **Boston**, USA. 28 June 2008.

- Lecture: Migraine Genetics

Official Satellite Symposium of the XII World Congress on Pain. The Placebo Effect. **Copenhagen**, Denmark 14-15 August 2008.

- Lecture: Placebo effect in Migraine

12th World Congress on Pain, IASP Scientific Programme Refresher Course. **Glasgow**, United Kingdom, 17 August 2008

- Migraine: From Genes to Pain Mechanisms and Pathways: Chair
- Lecture: Migraine genes

European Headache and Migraine Trust International Congress 2008, **London**, United Kingdom, 4 – 7

September 2008

- Co-chair New Scientists Lectures

Cony 2nd World Congress on Controversies in Neurology, *Athens*, 23 – 26 October 2006

- Lecture: Migraine genetics, a fascinating story towards better migraine prophylactics
- Co-chair: Headache 2 debates

Conference on Fight pain and Inflammation: problems, questions and answers, *Florence*, 7 – 8 November 2008

- Lecture: Migraine as a cerebral ionopathy: from patients to transgenic mice, and back

2009

Esteve Foundation discussion Group. Migraine headache: current knowledge and future therapies. *Girona*, Spain, 11 – 12 June 2009

- Lecture: Migraine genetics: update and how genetics informs the discussion on migraine pathogenesis

14th Congress of the International Headache Society. *Philadelphia*, USA, 10 – 13 September 2009

- The IHS Special Lecture: The CAMERA-II Study: a 9-year MRI follow-up study in a large cohort of migraineurs from the Dutch general population

23rd Congresso Nazionale, Società Italiana per lo Studio delle Cefalee: Cefalee: multidisciplinarietà e comorbilità. 30/9 – 3/10/2009 *Bari*, Italy.

- Lecture: Brain consequences of chronified migraine: a 9-year MRI follow-up study in migraineurs from the Dutch general population

CONY 3rd World Congress on Controversies in Neurology. *Prague*, Czech Republic, 8 – 11 October 2009.

- Faculty and Advisory Board Members.

World Federation of Neurology 19th World Congress of Neurology. *Bangkok*, Thailand.

- Lecture: From Migraine genes to migraine triggering mechanisms and prophylaxis.

Centro Cefalee Venezia. Eemicrania ed epilessia la tempesta nervosa. *Venice*, Italy, 28 November 2009

- Lecture: Migraine and epilepsy: shared features, mechanisms and treatments.

2010

NVHG Voorjaarssymposium. Therapie van Genetische Ziekten. *Amsterdam*, The Netherlands. 23 April 2010

- Lecture: Migraine: from genes to prophylactic treatment targets

LICE 33rd Congresso Nazionale. Eemicrania ed epilessia: convergenze e divergenze. *Mantova* 29th May 2010

- Lecture: CSD and Hemicrania

13th World congress on Pain. *Montréal*, Canada. 29 August 2010

- Lecture: Pain Genes for Unraveling Pain: A Course for Non-Geneticists

The Lundbeck Foundation Symposium. *Copenhagen*, Denmark. 3 September 2010

- Chair Session Human Models of Migraine

2nd European Headache and Migraine Trust International Congress – EHMTIC. *Nice*, France. 28-31 October 2010

- Chair: 4 new scientist lectures

Tag der Klinischen Forschung Universität Bern. *Bern*, Switzerland. 3 November 2010

- Lecture: Migraine – the quest for prophylactic treatment

2011

55. Jahrestagung der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung. *Münster*, Germany. 16-19 March 2011

- Chair: Kanalkrankheiten

- Lecture: Pathogenesis of Migraine

6th World Congress World Institute of Pain. *Seoul*, Korea. 29 April – 1 May 2011
John J. Bonica lecture: Migraine from Genes to Prophylactic Treatment Targets

21st Meeting of the European Neurological Society. *Lisbon*, Portugal. 28-31 May, 2011
- Lecture: Migraine as risk factor for stroke and cardiac ischaemic disease
- Chair Teaching Course: Migraine Comorbidities and differential diagnosis.

The Hartmann Muller Prize for Biomedical Research Lecture from the University and ETH (Eidgenössische Technische Hochschule Zurich – Swiss Federal Institute of Technology) of *Zurich*, Switzerland. 9th June 2011

15th Congress of the International Headache Society. *Berlin*, Germany. 23 – 26 June, 2011.
- Knock-in mouse models of FHM
- Giant Steps in migraine Genetics
- Patient preference in clinical trials
- Chair: The IASP – IHS Global Year against headache symposium
- Chair: Teaching Course: Optimizing Headache Trial Methodology

15th Congress of the European Federation of Neurological Societies. *Budapest*, Hungary. 10-13 September 2011
Lecture: 30 Years of Headache Research in Europe

30th Annual meeting of the Korean Neurologic Association. Genetics of Headache. Oct.6 and Oct 7 in *Pusan* Korea.

NCMLS New Frontiers Symposium – Nobel Channels. "Migraine as a Nobel Channelopathy". *Nijmegen*, Netherlands 14-15 November, 2011.
Lecture: Migraine as a nobel channelopathy

47th Turkish Neurological Congress. *Antalya*, Turkey. 26 November – 1 December 2011
Lecture: Headaches

2012

6th World Congress on Controversies in Neurology. *Vienna*, Austria. 8-11 March 2012
Debate: FHM is a useful genetic model for common migraine
Chair: Migraine is primarily a vascular disorder

Third biannual International Pain Congress. *Middelburg*, The Netherlands. 12-14 April 2012
Lecture: The difference between Trigeminal Autonomic Cephalgia's (TAC's) and Trigeminal - and other neuralgias. Lecture: Cluster headache

IX Congresso Sezione Interregionale Nord-Ovest Società per lo Studio delle Cefalee, *Verbania*, Italia. 25 May 2012. Lecture: Migraine and cerebrovascular disorders

IASP's 14th World Congress on Pain. *Milan*, Italia. 27-31 August 2012
Refresher course: Pain Genetics. Lecture: From patients to transgenic migraine and head pain mouse models.
Debate: Summary and prospects for the future
Topical Workshop: Mechanisms underlying the initiation of a migraine attack.

The 4th Asian Regional Conference for Headache and the 8th Annual Meeting of the Taiwan Headache Society. *Taipei*, Taiwan. 27-28 October 2012
Lecture: Migraine as a risk factor for cerebral ischaemia
Lecture: Unraveling molecular mechanisms for migraine

2013

Headache Master School 2013 in Asia. *Tokyo*, Japan. 23-24 March 2013
Lecture: Triptans, What we have learned

Teaching and debates: History taking by world-leading headache experts

Headache Symposium: Difficult to treat headache patients. *Copenhagen*, Denmark, 29 May 2013

Lecture: Difficult to treat headache patient, acute treatment of migraine. What to do when sumatriptan does not work?

International Headache Congress. **Boston**, 27-30 June, 2013.

Debate: Stress is a major trigger for migraine – Con.

Chair: Various sessions

2014

7th World Congress World Institute of Pain. 7-10 May, 2014. **Maastricht**, The Netherlands

Lecture: The changing migraine brain

Lecture: Headache Interventions through the eyes of a neurologist

4th Biannual International Multidisciplinary Pain Congress. 1-4 October, 2014. **Eindhoven**, the Netherlands

Lecture: Beyond the Pain; Developing Therapies Together

The Burden of Intractable Chronic Cluster Headache

Lecture: Cluster headache: diagnosis and management

Lecture: Effective management of migraine

The International Headache Academy (iHEAD) “How to Become a Next Leader in Headache Science”. 31 Oct – 2 Nov, 2014. **Leiden**, the Netherlands

Chair Organising Committee

2015

17th Congress of the International Headache Society. 14-17 May 2015, **Valencia**, Spain.

Chair: Meeting Euroheadpain

1st Congress of the European Academy of Neurology. 20-23 June, 2015. **Berlin**, Germany

Lecture in workshop Migraine Biomarkers: Facts, Fiction & Future: Genetic biomarkers

Since 2010 every year

Organiser & Speaker at the Annual Post Graduate Boerhaave Course on Headache Syndromes for Neurology Residents

INVITED LECTURES AND CHAIRS (National):**1986**

Biochemische verschillen tussen Common Migraine, Classieke Migraine en Spanningshoofdpijn. Nascholingsbijeenkomst Haagse en Leidse Neurologen. *Den Haag*, 27-5-1986.

Migraine. Diagnostiek, pathofysiologie en therapie. Symposium - Workshop Migraine. Nascholingsbijeenkomst huisartsen Westland. *Poeldijk*, 10-6-1986.

Migraine. Diagnostiek, pathofysiologie en therapie. Symposium - Workshop Migraine. Nascholingsbijeenkomst huisartsen. *Woubrugge*, 18-11-1986.

1987

Migraine: Diagnose, pathofysiologie en therapie. Symposium - workshop: Nieuwe inzichten in Migraine. Nascholingsbijeenkomst huisartsen Leiden en omgeving. *Warmond*, 27-10-1987.

Migraine: Diagnose, pathofysiologie en therapie. Symposium - workshop Migraine. Nascholingsbijeenkomst huisartsen Rotterdam en omgeving. *Rotterdam*, 7-4-1987.

Biochemical differences between classic migraine, common migraine and tension headache. Boerhaave Post-Graduate Course: Migraine and other headaches. *Leiden*, 3-4 Dec. 1987.

1988

Serotonin metabolism in migraine: increased between and reduced during attacks. Cardiovascular Pharmacology of 5HT, *Amsterdam*, Oct. 4-7, 1988.

Migraine. Huisarts wat doe je er mee? Workshop Migraine. Nascholingsbijeenkomst huisartsen Zeist en omgeving. *Zeist*, 11-10-1988.

Migraine: kliniek, pathofysiologie en behandeling. Symposium: Enkele somatische en psychosociale problemen in de huisartsen praktijk. Nascholing huisartsen Utrecht en omgeving. *Utrecht*, 18-10-88.

Migraine: diagnose en behandeling. Nascholing huisartsen Tiel en omgeving. *Zoelen*, 17-11-88.

Migraine. Boerhaave Cursus: Vorderingen in de praktijk. Boerhaave Commissie voor PAOG, Rijks Universiteit, *Leiden*, 15-16 dec. 1988.

1989

Neurotransmitters en migraine: Workshop "Overwegingen bij duizeligheid en hoofdpijn". AMC, afd.KNO; *Vught*, 27-1-89.

Migraine: Diagnostiek, pathofysiologie & therapie. Erasmus Universiteit *Rotterdam*, 5-4-89

Therapie bij migraine. Nascholing Neurologie: Diagnostische en therapeutische problemen in de neurologie. *Epe* 19/20-5-89.

1990

Selectieve 5-HT₁ receptor agonisten in de behandeling van migraine aanvallen. Nieuwe therapeutische ontwikkelingen in de neurologie. Stichting Post-Universitair Onderwijs Ziekenhuisfarmacie. *Utrecht* 19/9/1990.

Behandeling van migraine aanvallen met sumatriptan: van antagonist naar agonist. "Nieuws in de Neurologie". Neurology Post-Graduate Course, Dutch Neurological Association. *Garderen*, 13/12/90.

1991

De behandeling van migraine. Nascholing Neurologen Twente. *Enschede* 7/1/1991.

Migraine Behandeling: van ergotamine naar sumatriptan. Neurology Department, Erasmus University, *Rotterdam*, 15/4/91.

Pro's and con's of sumatriptan. Anglo-Dutch Migraine Group. *Maastricht* 9-11 May, 1991.

Clinical efficacy and safety of sumatriptan in migraine. "Migraine: state of the art", *Amsterdam* 13/12/91.

Migraine: aktuele therapie. Capita Selecta Boerhaave Commissie voor PAOG, *Leiden*, 12-13/12/91.

1992

Medicatie in het algemeen. Boerhaave Cursus: "Practische neurologie, een stap verder. *Leiden*, Jan. 23-24, 1992.

Onderzoek doen met de farmaceutische industrie in een Academisch Ziekenhuis. Boerhaave Workshop: "Clinical Research in Neurology". *Bosch en Duin*, April 9-11, 1992.

1993

Treatment of migraine and cluster headache. Boerhaave Postgraduate Course: "Pain in Neurological Practice". *Leiden*, Febr. 4-5, 1993.

Chair: Future drugs in treatment of pain. Boerhaave Postgraduate Course: "Pain in Neurological Practice". *Leiden*, Febr. 4-5, 1993.

Sumatriptan in de klinische praktijk. Ronde Tafel Conferentie. *Breda*, May 12, 1993.

Het werkingsmechanisme van sumatriptan bij migraine. Amsterdamse Neurologen Vereniging. *Amsterdam*, May 6, 1993.

1994

Hoofd- en aangezichtspijn. M.I.C. "De pijn te lijf". *Utrecht*, 28 januari 1994.

5-HT and Migraine. 17e Symposium "Nederlands-Belgische Vereniging voor Experimentele en Klinische Neurochemie". Boerhaave Cursus "5-HT in Neurologic and Psychiatric Disorders". *Leiden*, 27 mei, 1994.

TCD bij migraine. Nascholingscursus "Doppler onderzoek van de cerebrale vaatboom". Nederlandse Vereniging voor Klinische Neurofysiologie. *Veldhoven*, 30 mei 1994.

1995

Therapie van hoofd- en aangezichtspijn. Nascholing: Pijn in de neurologie. Nederlandse Vereniging voor Neurologie. *Ede*, 12 en 13 mei 1995.

Migraine: preventie en behandeling op de arbeidssituatie. Wetenschappelijke dag van de Nederlandse Vereniging ter Bestudering van Pijn. *Leiden*, 27 oktober 1995.

Profylaxe bij cluster hoofdpijn en migraine. Boerhaave Cursus: Therapeutische mogelijkheden in de neurologie. *Leiden*, 13 oktober 1995.

1996

Migraine therapie: verleden - heden - toekomst. Academisch Ziekenhuis *Utrecht*, 20 sept. 1996

Migraine. Publieksdag Brein 2002: "Medicijnen voor hersenaandoeningen; zin en onzin". *Amsterdam*, 27 sept.

1996.

Migraine. Gastcollege pathofysiologie van het zenuwstelsel. Onderzoekschool Neurowetenschappen, Instituut voor Neurobiologie, Universiteit van Amsterdam. **Amsterdam**, 11 december 1996.

1997

Het placebo-effect bij pijnbehandeling. Wetenschappelijke vergadering van de Sectie Pijn van de Nederlandse Vereniging voor Neurologie. **Utrecht**, 24 januari 1997.

Migraine. Gastcollege pathofysiologie van het zenuwstelsel. Onderzoekschool Neurowetenschappen, Instituut voor Neurobiologie, Universiteit van Amsterdam. **Amsterdam**, 17 december 1997.

1998

Het placebo effect. Boerhaave Cursus: Pijn-therapie in de neurologie. **Leiden**, 20 maart 1998.

Chair: Boerhaave Cursus: Pijn-therapie in de neurologie. **Leiden**, 20 maart 1998.

1999

'The triptan war'. Regionale neurologenbijeenkomst: Nieuwe therapie in de neurologie. **Rotterdam**, 11 January 1999.

Epidemiology & genetics of migraine. Advances in Epidemiology and genetics of neurological diseases. NIHES Voorjaarscursus. **Rotterdam**, 31 March 1999.

Migraine – It is not all Serotonin. Study of Migraine and Career Aspects. Scientific Program EMCR Symposium. **Rotterdam**, 1 October 1999.

Chair: Pharmacology towards Drug Discovery. Scientific Program EMCR Symposium. **Rotterdam**, 1 October 1999.

2002

Publiceren van wetenschappelijk onderzoek. Systematiek en organisatie van mensgebonden onderzoek: een inleiding. Novembercursus beginnend klinisch onderzoekers. LUMC; **Leiden**, November 2002.

Clusterhoofdpijn. Vorderingen en Praktijk. Boerhaave Cursus. **Leiden**, 12 & 13 December 2002.

2003

Headache anno 2003 and beyond. Boerhaave Cursus. **Leiden**, 31 January 2003.

Waarom Nu? Inaugural lecture (oratie) Full Professorship Leiden University. **Leiden**, 31 January 2003.

Hoofdpijn bij kinderen. Boerhaave Cursus: Nascholingsweek Kindergeneeskunde 'The proof of the pudding ...'. **Leiden**, 12-16 May 2003.

Triptanen bij migraine en clusterhoofdpijn. Boerhaave Nascholings Cursus: Farmacotherapie. **Leiden**, 22 May 2003.

Can you diagnose me? Wetenschappelijke vergadering Nederlandse Hoofdpijnvereniging, **Tilburg**, 14 November 2003.

2004

Hoofdpijn bij kinderen: geen klein probleem! Boerhaave nascholingscursus kindergeneeskunde: Morgen wordt alles beter. **Leiden**, 10-14 May 2004.

Is there life without Pramod? Serotonin and Beyond, Farewell Symposium for Prof. Pramod R. Saxena, **Rotterdam**, 15 June 2004.

7th European Headache Federation EHF Congress:

- Member International Scientific Committee
- Chairman session on Guidelines for Migraine Treatment, a debate between USA and Europe
- Opponent in debate on early migraine treatment

Rotterdam, 16-19 June 2004.

Chronisch dagelijkse hoofdpijn. Biemond Neurologie nascholingscursus. Multipole sclerose en pijnsyndromen. **Veldhoven**, 9 December 2004.

2005

4th Dutch Endo-Neuro-Psycho Meeting, EKN Keynote lecture: Migraine, from patients to transgenic mice models. **Doorwerth**, 31 May-3 June 2005.

2006

Slotcongres Programma Pijn 3, 10 jaar stimulering pijnonderzoek in Nederland: Toekomst wetenschappelijk pijnonderzoek. **Nieuwegein**, 7 December 2006.

2007

947^e vergadering van het Natuurkundig Gezelschap: Migraine as a cerebral ionopathy – why do migraine patients get attacks?, **Leiden**, 15 March 2007.

34^e Najaarssymposium van de Nederlandse Vereniging voor Kinderneurologie – Zit het in het hoofd of in de benen, **Leiden**, 16 november 2007.

- voordracht Migraine, meer dan hoofdpijn.

Jaarvergadering Nederlandse Hoofdpijn Vereniging: **Nijmegen**, 23 november 2007

- Chair: Keynote Lecture: Migraine and the heart

2009

Methodological Aspects of Clinical Trials, **Leiden**, 4 – 8 May 2009

Avond van Wetenschap & Maatschappij 2009 'Ons Brein', **Den Haag**, 2 november 2009

- voordracht: Migraine – acute tijdelijke ontregeling van het brein: waarom nu? – Een multidisciplinaire translationele reis naar migraine profylaxe.

Boerhaave Cursus: Vorderingen en praktijk. **Leiden**, 26 – 27 november 2009

- voordracht: Hoe veilig zijn triptanen?

Diessymposium: Nieuwe impulsen in de neurologie. **Leiden**, 16 december 2009

- voordracht: Migraine en de oorzaken hiervan.

Leiden voor Lijden, **Leiden**, 21 december 2009

- voordracht: ALS

2010

Nationale Hersenlezing (Brain Awareness Week 2010), **Utrecht**, 19 maart 2010

- voordracht: Migraine – van mythes tot hersenziekte

Forum Biotechnologie & Genetica, **Den Haag**, 24 maart 2010

- voordracht: De genetische achtergronden van migraine

Lustrum Alumnidag Universiteit Leiden, **Leiden**, 12 juni 2010

- voordracht: Migraine – van mythes tot hersenziekte

Methodological Aspects of Clinical Trials. Boerhaave Course May 2010 Leiden, The Netherlands

- voordracht: Pitfalls in Clinical Trials

Kennis op Zondag, **Amsterdam**, 10 oktober 2010

- voordracht: Het ontstaan van migraine

7^e Cursus neurofarmacologie van de Onderzoekschool Neuro Wetenschappen Amsterdam (ONWA), **Leiden**, 13 oktober 2010

- voordracht: Case: Migraine – from genes to mouse model and drug target

NVVG Verzekeringsgeneeskundige Dagen 2010, **Noordwijkerhout**, 11 en 12 november 2010

- voordracht: Werken met migraine en cluster hoofdpijn – van mythes tot wetenschap

Boerhaave Nascholing, **Leiden**, 18 november 2010

- voordracht: Migraine; pathologie en therapie

Utrecht University Medical Centre, **Utrecht**, 09 December, 2010

- Scientific Research as a Medical Specialist

2011

Leiden International Medical Student Conference LIMSC, **Leiden**, 16-20 maart 2011

- voordracht: Migraine, from myths to hereditary brain disorder

The NVHG Spring Meeting – Nederlandse Vereniging voor Humane Genetica, **Veldhoven**, 31 maart – 1 april 2011

- voordracht: Migraine: from genes to prophylactic treatment targets

Koninklijke Maatschappij voor Natuurkunde, Diligentia, **Den Haag**, 4 april 2011

- voordracht: Migraine, de ontrafeling van een complexe ziekte

Operatie Wetenschap – Paradisolezingen 2011. **Amsterdam**, 17 april 2011

- voordracht: De migraine meester – grensoverschrijdende krachtenbundeling tegen migraine

Symposium Biomedische Wetenschappen, **Leiden**. 20 april 2011

- voordracht: migraine en cluster

LUMC Boerhaave Course – Methodological Aspects of Clinical Trials, **Leiden**, 6 mei 2011

- voordracht: Pitfalls in clinical trails (hands-on experiences): an interactive session

Rotary Club, **Den Haag**, 17 mei 2011

- voordracht: Migraine from myths to brain disorder

2012

8th Neuropsychopharmacology Course Program 2012. **Leiden**, The Netherlands. 15 November 2012

Lecture: Case: Migraine – from genes to mouse model and drug target

2013

LUMC Boerhaave Course: Methodological Aspects of Clinical Trials. **Leiden**, The Netherlands, 22-26 April 2013

Lecture: Pitfalls in clinical trials (hands-on experiences): an interactive session

Biemond Cursus Pijn & Hoofdpijn. Mandatory Annual Postgraduate Course for all Dutch Neurologists on Headache and Pain. 14th March, 2013 in **Arnhem** & 12th December, 2013 in **Veldhoven**, The Netherlands.

- Headache attack treatment

LUMC PhD Day. 25th October, 2013. **Leiden**, The Netherlands.
 - Plenary Lecture: From PhD Candidate to Spinoza Prize Winner
 - Moderator Debate on the pros & cons of the Bursary System

LUMC Medical & Biomedical Students Dies Symposium. **Leiden**, The Netherlands. 1st November, 2013.
 - Is stress a migraine trigger?

2014

Hoofdpijn INzicht. Post-graduate Course on Headache for Neurology Trainees. **Leiden**, The Netherlands. 4th April, 2014.
 - Organising Committee
 - Special Headache Syndromes

Neurology – Neuroscience Lecture Rotterdam University Erasmus Medical Centre. **Rotterdam**, The Netherlands. 20th March, 2014.
 - Migraine – From molecular neurobiology to prophylactic treatment.

Vereniging Medisch Tandheelkundige Interactie: Hoofdpijn & Kopzorgen. 3 Oct 2014, **Laren**, The Netherlands.
 Lecture: Clusterhoofdpijn en gerelateerde aangezichtspijnen

2015

Nationaal Coassistenten Congres: Zenuwslopend. 18 April 2015, **Egmond aan Zee**, The Netherlands.
 Lecture: Migraine en clusterhoofdpijn: De fascinerende speurtocht naar behandelingen om aanvallen te voorkomen

Coeur Day 2015 “Beyond Excellence” (Cardiovascular Research School, Erasmus Medical Centre, Rotterdam).
 29 May 2015, **Rotterdam**, The Netherlands.
 Keynote lecture: Prize Winning Science

2016.

2017.