CURRICULUM VITAE

NAME	POSITION TITLE
Martin Dichgans	Professor, Ludwig-Maximilians University (LMU), Munich Director, Institute for Stroke and Dementia Research Chair, Dept. of Translational Stroke and Dementia Research

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Heidelberg	M.D.	1993	Medicine
CWR University, Cleveland		1994	Neuroscience
LMU Munich, Dept. of Neurology	Board Certificate in	1994-2001	Medicine
LMU Munich, Dept. of Psychiatry	Neurology (2001)	1999	Medicine

A. Positions and Honours (Last 10 years).

2006- Professor of Neurology
2010- Founding Director, Institute for Stroke and Dementia Research, Klinikum der Universität München
Chair Dept. of Translational Stroke and Dementia Research
Head, Interdisciplinary Stroke Center Munich, Klinikum der Universität München
2011- Coordinator, Clinical Research DZNE Munich
2012- Scientific Board and Research Coordinator, Munich Cluster of Systems Neurology (SyNergy)
2013- Scientific Board Graduate School of Systemic Neuroscience, Munich Centre for Neuroscience
2014- Board of Directors German Stroke Society (DSG)
2014- Chair, Scientific Advisory Board, ERANET-NEURON, FP7 European Union
2015- Executive Committee, European Stroke Organization (ESO)
2016- President, German Stroke Society (DSG)
2016- Chair, Conference Planning Group, ESO Conference
2016- Scientific committee, World Stroke Congress 2018 and 2020
2017- Research committee, World Stroke Organisation (WSO)

Honours and awards
Honorary Member of the Societe Francaise de Neurologie (SFN);
Honorary Member of the Austrian Stroke Society (ÖSG)
Teaching Awards of the Medical Faculty, University of Munich, 2009 and 2012
Awards of the European Neurological Society (ENS), 1997 and 1998
Scientific Advisory Board: Horizon2020 funded Phase II Proof-of-Concept Trial: Penumbral Rescue by Normobaric O=O Administration in Patients With Ischaemic Stroke and Target Mismatch ProFile (PROOF)
Fellow of the European Stroke Organization (FESO)

Editorial Boards
Section Editor *Stroke (AHA)* (2006-2010 and 2015-); Assistant Editor *Stroke (AHA)* (2010-2015); Section Editor Genetics *Intern. J. Stroke* (WSO) (2013-2016); Associate Editor *Frontiers in Stroke* (2010-); Handling Editor *J. of Neurochemistry* (2011-2016), Section Editor *Nervenarzt* (2013-)
Editorial Board Member Annals of Neurology (2017-); European Stroke Journal (2016-); *Cerebrovascular Diseases* (2011-2014).

Involvement in International Review Panels
2015 - International Ethics and Advisory Board, Dutch Heart-Brain Consortium

Memberships
European Stroke Organization (ESO, Fellow); American Heart Association (AHA); German Competence Network Stroke; Intern. Society for Vascular Behavioral and Cognitive Disorders (VasCog); European Academy of Neurology (EAN); Ischemic Stroke Genetics Consortium (MEGASTROKE; Chair: 2015-)

B. Selected Publications (maximum 5 relevant publications, last 5 years for more publications see E)
(from >**350** peer reviewed articles)

1. Dichgans M, Markus HS, Salloway S, Verkkoniemi A, Moline M, Wang Q, Posner H, Chabriat H. Donepezil in Patients with Subcortical Vascular Cognitive Impairment: a randomized double-blind trial in CADASIL **Lancet Neurol** 2008;7(4):310-8.
2. Freilinger T, Anttila V, de Vries B, Malik R, …, Kubisch D, Palotie A*, Dichgans M*, van den Maagdenberg AMJM* for the International Headache Genetics Consortium. Genome-wide association analysis identifies susceptibility loci for migraine without aura. **Nat Genet** 2012; 44(7):777-82 (*shared last-authorship).
3. The International Stroke Genetics Consortium (ISGC); the Wellcome Trust Case Control Consortium 2 (WTCCC2), Bellenguez C, Bevan S, Gschwendtner A, Spencer CC, Burgess AI, Pirinen M, Jackson CA, Traylor M, Strange A, Su Z, Band G, Syme PD, Malik R, Pera J, Norrving B, Lemmens R, Freeman C, Schanz R, James T, Poole D, Murphy L, Segal H, Cortellini L, Cheng YC, Woo D, Nalls MA, Müller-Myhsok B, Meisinger C, Seedorf U, Ross-Adams H, Boonen S, Wloch-Kopec D, Valant V, Slark J, Furie K, Delavaran H, Langford C, Deloukas P, Edkins S, Hunt S, Gray E, Dronov S, Peltonen L, Gretarsdottir S, Thorleifsson G, Thorsteinsdottir U, Stefansson K, Boncoraglio GB, Parati EA, Attia J, Holliday E, Levi C, Franzosi MG, Goel A, Helgadottir A, Blackwell JM, Bramon E, Brown MA, Casas JP, Corvin A, Duncanson A, Jankowski J, Mathew CG, Palmer CN, Plomin R, Rautanen A, Sawcer SJ, Trembath RC, Viswanathan AC, Wood NW, Worrall BB, Kittner SJ, Mitchell BD, Kissela B, Meschia JF, Thijs V, Lindgren A, Macleod MJ, Slowik A, Walters M, Rosand J, Sharma P, Farrall M, Sudlow CL, Rothwell PM, Dichgans M, Donnelly P, Markus HS. Genome-wide association study identifies a variant in HDAC9 associated with large vessel ischemic stroke. **Nat Genet** 2012 5;44(3):328-333.
4. Wardlaw JM*, Smith EE*, Biessels GJ, Cordonnier C, Fazekas F, Frayne R, Lindley RI, O'Brien JT, Barkhof F, Benavente OR, Black S, Brayne C, Breteler M, Chabriat H, DeCarli C, de Leeuw FE, Doubal F, Duering M, Fox N, Greenberg S, Hachinski V, Kilimann I, Mok V, van Oostenbrugge R, Pantoni L, Speck O, Stephan BCM, Teipel S, Viswanathan A, Werring D, Chen C, Smith C, van Buchem M, Norrving B, Gorelick PB, Dichgans M*. Neuroimaging standards for research into small vessel disease and its contribution to ageing and neurodegeneration: A united approach. **Lancet Neurol** 2013;12(8):822-38 (*equally contributing).
5. Beaufort N, Scharrer E, Kremmer E, Lux V, Ehrmann M, Huber R, Houlden H, Werring D, Haffner C, Dichgans M. Cerebral small vessel disease-related protease HtrA1 processes latent TGF-β binding protein 1 and facilitates TGF-β signaling **Proc Natl Acad Sci U S A**. 2014 Nov 18;111(46):16496-501.

C. Past 5 years of grant funding received

- Unrestricted grant for research in stroke and vascular dementia (PI)(Vascular Dementia Research Foundation, 2010-), annual budget: **5.5 Mio €**
- Munich Cluster for Systems Neurology (SyNergy) of the German Excellence Initiative (1/2013-10/2017): Coordinator Research Area B and Member of the SyNergy Task Force (11/2012-10/2017), Overall Budget Research Area B ~8 Mio €; local budget for Phase I (1/2013-06/2016): **~1,45 Mio €**
- EU Horizion 2020 'SVDs@target'(1/2016-12/2020): overall budget (Coordinator): ~**6 Mio €**; local budget: **975.167 €**
- EU Horizion 2020 'CoSTREAM' (12/2015-11/2020): local budget (PI): **~510.000 €**
- EUFP7 'cvgenes@targe't (10/2013-9/2016): local budget (PI): **~503.000 €**
- BMBF 'eAtheroSysMed' (12/2013-11/2016): ~5 Mio €; Phase I: coordinator budget ~890.000€; local budget **~292.500 €**
- 'Role of HDAC9 in Atherosclerosis" Project within the collaborative research programme SFB 1123 'Atherosclerosis – Mechanisms and networks of novel therapeutic targets' (PI)(DFG; 10/14-06/18): **467.000 €**
- 'Molecular mechanisms of recessive and dominant mutations in the small vessel disease-related high temperature requirement protease HTRA1' (PI) (DFG, 01/17-12/19): **251.350 €**
- 'The DZNE – Mechanisms of Dementia After Stroke (DEMDAS) Study" Clinical Intersite Project (Coordinator and PI); German Center for Neurodegenerative Diseases (DZNE, 02/13-12/2021), overall budget: **~1.8 Mio €**
- Leducq Transatlantic Network of Excellence in Cardiovascular and Neurovascular Research "Pathogenesis of Small Vessel Disease of the Brain" (Fondation Leducq, 10/12-09/17), PI local budget: **590.150 €**
- EU FP7 'Mechanisms of Small Vessel Related Brain Damage and Cognitive Impairment. Integrating Imaging findings from Genetic and Sporadic Disease' (MESCOG)' (Coordinator and PI) (EU, FP7, ERA-NET-NEURON, 03/12-2/15), overall budget: 1.165.813€; local budget: **573.800 €**
- 'Vascular Dementia Intersite Project' (Coordinator and PI) German Center for Neurodegenerative Diseases (DZNE, 11/10-10/13), overall budget: **1.560.000 €**, local budget: 516.000€

- Josef-Hackl-Foundation (2014-): Role of miRNAs in ischemic stroke. overall budget **180.000 €**
- 'Brain Processes of Cognitive Reserve: a FMRI study' (PI) (Alzheimer Forschung Initiative e.V.; 11/12-10/14): ~40.000€
- 'Standards for determining the vascular contribution to neurodegeneration (CoEN017)' (Co-PI) German Center for Neurodegenerative Diseases (DZNE, 01/12-12/13), local budget: **14.000 €**
- 'Genome-wide search for quantitative trait loci for radiographic white matter hyperintensities in CADASIL' (PI) (Corona Foundation, 01/11-12/15): 600.000 €
- 'Characterization of transgenic mouse models for cerebral small vessel disease and vascular dementia" (Jackstaedt Foundation, 04/10-03/13): 295.000 €
- 'Molecular Mechanisms of Notch3-Aggregation in the Pathogenesis of CADASIL' (Co-PI) (DFG; OP 212/1-1, 01/11-12/13): 270.000 €

D. Previous experience in collaborative research (selection)

2014- DFG SFB/CRC 1123: Azghandi et al. **Stroke** 2015

2013- BMBF eAtheroSysMed: Dichgans et al. **Stroke** 2014; Malik et al. **Neurology** 2015; Malik et al. **Neurology** (in press)

2013- EUFP7 'cvgenes@target: Dichgans et al. **Stroke** 2014; Azghandi et al. **Stroke** 2015; Malik et al. **Neurology** in press

2013- Leducq Transatlantic Network of Excellence in Cardiovascular and Neurovascular Research "Pathogenesis of Small Vessel Disease of the Brain" Beaufort et al. **Proc Nat Acad Sci USA** 2014 and **Proc Nat Acad Sci USA** 2015 Dichgans et al. **Circulation** 2013; *Düring et al.* ***Neurology*** *2014; Chabriat et al.* ***Stroke*** *(in press)*

2012- COEN-The Centres of Excellence in Neurodegeneration Vascular Imaging Standards Working Group (PI: J. Wardlaw; C. Smith, M. Dichgans): *Wardlaw, Smith, Dichgans* ***Lancet Neurol*** *2013; Wardlaw, Smith, Biessels, Dichgans* ***Lancet Neurol*** *2013*

2012- MESCOG-Mechanisms of Small Vessel Related Brain Damage and Cognitive Impairment: Integrating Imaging Findings from Genetic and Sporadic Disease: *Düring et al.* ***Neuroimage*** *2012; Düring et al.* ***Brain*** *2013; Düring et al.* ***Neurology*** *2014; Düring et al.* ***Neurology*** *2015;*

2004- Prospective longitudinal study in 300 CADASIL patients with H. Chabriat (Paris) and A Viswanathan (Boston, MGH); *over 12 publications including: Chabriat et al.* ***Lancet Neurol*** *2009; Düring et al.* ***Brain*** *2011*

2008- Genome-wide association study in Ischemic Stroke (International Stroke Genetics Consortium): *Gschwendtner et al.* ***Ann Neurol*** *2009; Stefansson H et al.* ***Nat Genet*** *2009; Gudbjartsson DF et al.* ***Nat Genet*** *2009; The International Stroke Genetics Consortium and the Wellcome Trust Case-Control Consortium 2.* ***New Engl J Med*** *2010; Bellenguez et al.* ***Nat Genet*** *2012; Holliday et al.* ***Nat Genet*** *2012; Traylor et al.* ***Lancet Neurol*** *2012;* Sabater-Lleal M et al. **Circulation** 2013; *Falcone et al.* ***Lancet Neurol*** *2014; Debette et al.* ***Nat Genet*** *2015; Traylor et al.* ***Ann Neurol*** *(in press); Pulit et al.* ***Lancet Neurol*** *(in press); Malik et al.* ***Neurology*** *(in press)*

2008- Genome-wide association analysis in Alzheimer's disease: Harold et al ***Nat Genet*** *2009;* Jones et al. ***Plos One****;* Hollingworth et al. ***Nat Genet*** *2011; Traylor et al.* ***Ann Neurol*** *(in press)*

2008- Genome-wide association study in Migraine; Anttilla et al. ***Nat Genet*** 2010; Freilinger et al. **Nat Genet** 2012; Anttilla et al. **Nat Genet** 2013; Gormley et al. (submitted)

2005-2006 Multicenter randomized controlled treatment trial (PI: M. Dichgans). *Dichgans et al.* ***Lancet Neurol*** *2008*

2004-2009 Project within the collaborative research programme SFB 596 'The molecular basis of neurodegeneration' (Project on CADASIL): *Opherk et al.* ***Hum Mol Genet*** *2009; Duering et al.* ***Hum Mol Genet*** *2011; Opherk et al.* ***Brain*** *2004 ; Peters et al.* ***Exp Cell Res*** *2004*

E. Additional selected publications

Dichgans M, Mayer M, Uttner I, Brüning R, Müller-Höcker J, Rungger G, Ebke M, Klockgether T, Gasser T: The phenotypic spectrum of CADASIL: clinical findings in 102 cases. **Ann Neurol** 1998;44:731-739.

Opherk C, Peters N, Herzog J, Luedtke R, Dichgans M. Long-term prognosis and causes of death in CADASIL: a retrospective study in 411 patients. **Brain** 2004;127:2533-2539.

Dichgans M, Freilinger F, Eckstein G, Babini E, Lorenz-Depiereux B, Biskup S, Ferrari M, Herzog J, van den Maagdenberg AMJM, Pusch M, Strom TM. Mutation in the neuronal voltage-gated sodium channel SCN1A in familial hemiplegic migraine **Lancet** 2005; 366:371-377.

Dichgans M. Genetics of Ischaemic Stroke. **Lancet Neurol** 2007;6(2):149-161.

Richards A, van den Maagdenberg A, Jen J, Kavanagh D, Bertram P, Spitzer D, Liszewski MK, Barilla-LaBarca M-L, Terwindt GM, Kasai Y, McLellan M, Grand MG, Vanmolkot KRJ, de Vries B, Wan J, Kane MJ, Mamsa H, Schafer R, Stam AH, Haan J, de Jong TVM, 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 RB, Ferrari MD, Atkinson JP. Truncations in the Carboxyl-terminus of Human 3'-5' DNA Exonuclease TREX1 Cause Autosomal Dominant Retinal Vasculopathy with Cerebral Leukodystrophy. **Nat Genet** 2007;39(9):1068-1070.

Chabriat H*, Joutel A*, Dichgans M*. Tournier-Lasserve E, Bousser MG. CADASIL **Lancet Neurol** (*shared first authorship) 2009; 8(7):643-53.

Gschwendtner A, Bevan S, Cole, JW, Plourde A, Matarin M, Ross-Adams H, Meitinger T, Wichmann E, Mitchell BD, Furie K, Slowik A, Rich SS, Syme PD, MacLeod MJ, Meschia JF, Rosand J, Kittner SJ, Markus HS, Müller-Myhsok B, Dichgans M. on behalf of the International Stroke Genetics Consortium. Sequence Variants on Chromosome 9p21.3 confer Risk of Atherosclerotic Stroke. **Ann Neurol** 2009;65(5):531-9.

Opherk C, Düring M, Peters N, Karpinska A, Rosner S, Schneider E, Badr B, Giese A, Dichgans M. CADASIL Mutations Enhance Spontaneous Multimerization of Notch3. **Hum Mol Genet** 2009; 18(15):2761-7.

Stefansson H, Steinberg S, Petursson H, Gustafsson O, Jonsdottir GA, Palsson ST, Jonsson T, Saemundsdottir J, Bjornsdottir G, Böttcher Y, Thorlacius T, Haubenberger D,Zimprich A, Auff E, Hotzy C, Testa CM, Miyatake LA, Rosen AR, Asmus F, Schöls L, Dichgans M, Jakobsson F, Benedikz J, Thorsteinsdottir U, Gulcher G, Kong A, Stefansson K. Variant in the sequence of the LINGO1 confers risk of essential tremor. **Nat Genet** 2009;41(4):504.

Gudbjartsson DF, Holm H, Gretarsdottir S, Thorleifsson G, Walters GB, Thorgeirsson G, Gulcher J, Mathiesen EB, Njølstadl, Nyrnes A, Wilsgaard T, Hald EM, Hveem K, Stoltenberg C, Kucera G, Stubblefield T, Carter S, Roden D, Ng MCY, Baum L, So WY, Wong KS, Chan JCN, Gieger C, Wichmann HE, Gschwendtner A, Dichgans M, Kuhlenbäumer G, Berger K, Ringelstein EB, Bevan S, Markus HS, Kostulas K, Hillert J, Sveinbjörnsdóttir S, Valdimarsson EM, Løchen ML, Ma RCW, Darbar D, Kong A, Arnar DO, Thorsteinsdottir U & Stefansson K. A sequence variant in ZFHX3 on 16q22 associates with atrial fibrillation and ischemic stroke. **Nat Genet** 2009;41(8):876-8.

Harold D, Abraham R, Hollingworth P, Sims R, Gerrish A, Hamshere M, Pahwa JS, Moskvina V, Dowzell K, Williams A, Jones N, Thomas C, Stretton A, Morgan AR, Lovestone S, Powell J, Proitsi P, Lupton MK, Brayne C, Rubinsztein DC, Gill M, Lawlor B, Lynch A, Morgan K, Brown KS, Passmore PA, Craig D, McGuinness B, Todd S, Holmes C, Mann D, Smith AD, Love S, Kehoe PG, Hardy J, Mead S, Fox N, Rossor M, Collinge J, Maier W, Jessen F, Schürmann B, van der Bussche H, Heuser I, Kornhuber J, Wiltfang J, Dichgans M, Frölich L, Hampel H, Hüll M, Rujescu D, Goate AM, Kauwe JSK, Cruchaga C, Nowotny P, Morris JC, Mayo K, Sleegers K, Bettens K, Engelborghs S, De Dayn P, von Broeckhoven C, Livingston G, Bass NJ, Gurling H, McQuillin A, Gwilliam R, Deloukas P, Al-Chalabi A, Shaw CE, Tsolaki M, Singleton AB, Guerreiro R, Mühleisen TW, Nöthen MM, Moebus S, Jöckel KH, Klopp N, Wichmann HE, Carrasquillo MM, Pankratz VS, Younkin SG, Holmans PA, O'Donovan M, Owen MJ & Williams J. Genome-wide associaton study identifies variants at CLU and PICALM associated with Alzheimer's disease. **Nat Genet** 2009;41(10):1088-93.

Anttila 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, Hämälainen E, de Vries B, Stam AH, Weller CM, Heinze A, Heinze-Kuhn K, Goebels U, 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 HE, Meitinger T, Alexander M, Moebus S, Schreiber S, Aulchenko YS, Breteler MMB, Uitterlinden Ag, Hofman A, van Dujin CM , Tikka-Kleemola P, Vepsälainen S, Lucae S, Tozzi F, Muglia P, Barrett J, Kaprio J, Färkkilä M, Peltonen L, Stefansson K, Zwart JA, Ferrari MD, Olesen J, Daly M, Wessmann M, van den Maagdenberg AMJM, Dichgans M, Kubisch C, Dermitzakis ET, Frants RR, Palotie A, on behalf of the International Headache Genetics Consortium. Genome-wide association study of migraine implicates a common variant on 8q22.1 regulating the expression of astrocyte elevated gene-1 (*AEG-1*). **Nat Genet** 2010;42(10):869-73.

The International Stroke Genetics Consortium and the Wellcome Trust Case-Control Consortium 2. Failure to Validate Associations between Variants on 12p13 and Ischemic Stroke. **New Engl J Med** 2010;362(16):1547-50.

Duering M, Zieren N, Hervé D, Jouvent E, Peters N, Pachai C, Opherk C, Chabriat C, Dichgans M. Strategic Role of Frontal White Matter Tracts in Vascular Cognitive Impairment: A Voxel-Based Lesion-Symptom Mapping Study in CADASIL. **Brain** 2011; 134:2366-75.

Duering M, Righart R, Csanadi E, Jouvent E, Herve D, Chabriat H, Dichgans M. Incident subcortical infarcts induce focal thinning in connected cortical regions. **Neurology** 2012**;** 79(20):2025-8.

Traylor M, Farrall M, Holliday EG, Sudlow C, Hopewell JC, Cheng YC, Fornage M, Ikram MA, Malik R, Bevan S, Thorsteinsdottir U, Nalls MA, Longstreth W, Wiggins KL, Yadav S, Parati EA, Destefano AL, Worrall BB, Kittner SJ, Khan MS, Reiner AP, Helgadottir A, Achterberg S, Fernandez-Cadenas I, Abboud S, Schmidt R, Walters M, Chen WM, Ringelstein EB, O'Donnell M, Ho WK, Pera J, Lemmens R, Norrving B, Higgins P, Benn M, Sale M, Kuhlenbäumer G, Doney AS, Vicente AM, Delavaran H, Algra A, Davies G, Oliveira SA, Palmer CN, Deary I, Schmidt H, Pandolfo M, Montaner J, Carty C, de Bakker PI, Kostulas K, Ferro JM, van Zuydam NR, Valdimarsson E, Nordestgaard BG, Lindgren A, Thijs V, Slowik A, Saleheen D, Paré G, Berger K, Thorleifsson G; Australian Stroke Genetics Collaborative, Wellcome Trust Case Control Consortium 2 (WTCCC2), Hofman A, Mosley TH, Mitchell BD, Furie K, Clarke R, Levi C, Seshadri S, Gschwendtner A, Boncoraglio GB, Sharma P, Bis JC, Gretarsdottir S, Psaty BM, Rothwell PM, Rosand J, Meschia JF, Stefansson K, Dichgans M, Markus HS; International Stroke Genetics Consortium. Genetic risk factors for ischaemic stroke and its subtypes (the METASTROKE collaboration): a meta-analysis of genome-wide association studies. **Lancet Neurol.** 2012; 11(11):951-62.

Duering M, Gonik M, Malik R, Zieren N, Reyes S, Jouvent E, Hervé D, Gschwendtner A, Opherk C, Chabriat H, Dichgans M Identification of a strategic brain network underlying processing speed deficits in vascular cognitive impairment. **NeuroImage**. 2012; 66C:177–83.

Holliday EG, Maguire JM, Evans TJ, Koblar SA, Jannes J, Sturm JW, Hankey GJ, Baker R, Golledge J, Parsons MW, Malik R, McEvoy M, Biros E, Lewis MD, Lincz LF, Peel R, Oldmeadow C, Smith W, Moscato P, Barlera S, Bevan S, Bis JC, Boerwinkle E, Boncoraglio GB, Brott TG, Brown RD Jr, Cheng YC, Cole JW, Cotlarciuc I, Devan WJ, Fornage M, Furie KL, Grétarsdóttir S, Gschwendtner A, Ikram MA, Longstreth WT Jr, Meschia JF, Mitchell BD, Mosley TH, Nalls MA, Parati EA, Psaty BM, Sharma P, Stefansson K, Thorleifsson G, Thorsteinsdottir U, Traylor M, Verhaaren BF, Wiggins KL, Worrall BB, Sudlow C, Rothwell PM, Farrall M, Dichgans M, Rosand J, Markus HS, Scott RJ, Levi C, Attia J; Australian Stroke Genetics Collaborative; International Stroke Genetics Consortium; Wellcome Trust Case Control Consortium 2. Common variants at 6p21.1 are associated with large artery atherosclerotic stroke. **Nat Genet** 2012 Oct;44(10):1147-51.

Sirko S, Behrendt G, Johansson PA, Tripathi P, Costa M, Bek S, Heinrich C, Tiedt S, Colak D, Dichgans M, Fischer IR, Plesnila N, Staufenbiel M, Haass C, Snapyan M, Saghatelyan A, Tsai LH, Fischer A, Grobe K, Dimou L, Götz M. Reactive glia in the injured brain acquire stem cell properties in response to sonic hedgehog glia. **Cell Stem Cell**. 2013; 12(4):426-39.

Duering M, Csanadi E, Gesierich B, Jouvent E, Hervé D, Seiler S, Belaroussi B, Ropele S, Schmidt R, Chabriat C, Dichgans M. Incident lacunes preferentially localise to the edge of white matter hyperintensities: insights into the pathophysiology of cerebral small vessel disease. **Brain** 2013; 136(Pt 9):2717-26.

Anttila V, Winsvold BS, Gormley P, Kurth T, Bettella F, McMahon G, Kallela M, Malik R, …., North American Brain Expression Consortium, UK Brain Expression Consortium, …., Dichgans M, … , Palotie A, for the International Headache Genetics Consortium. Genome-wide meta-analysis identifies new susceptibility loci for migraine. **Nat Genet** 2013;45(8):912-7.

Wardlaw JM, Smith C, Dichgans M. Mechanisms of sporadic cerebral small vessel disease: insights from neuroimaging. **Lancet Neurol** 2013;12(5):483-97.

Duering M, Gesierich B, Seiler S, Pirpamer L, Gonik M, Hofer E, Jouvent E, Duchesnay E, Chabriat H, Ropele S, Schmidt R, Dichgans M. Strategic white matter tracts for processing speed deficits in age-related small vessel disease. **Neurology**. 2014 Jun 3;82(22):1946-50.

Falcone GJ, Malik R, Dichgans M, Rosand J. Current concepts and clinical applications of stroke genetics. **Lancet Neurol**. 2014 Apr;13(4):405-18. doi: 10.1016/S1474-4422(14)70029-8. Review.

Dichgans M, Malik R, König IR, Rosand J, Clarke R, Gretarsdottir S, Thorleifsson G, Mitchell BD, Assimes TL, Levi C, O'Donnell CJ, Fornage M, Thorsteinsdottir U, Psaty BM, Hengstenberg C, Seshadri S, Erdmann J, Bis JC, Peters A, Boncoraglio GB, März W, Meschia JF, Kathiresan S, Ikram MA, McPherson R, Stefansson K, Sudlow C, Reilly MP, Thompson JR, Sharma P, Hopewell JC, Chambers JC, Watkins H, Rothwell PM, Roberts R, Markus HS, Samani NJ, Farrall M, Schunkert H; METASTROKE Consortium; the CARDIoGRAM consortium; the C4D consortium; the

International Stroke Genetics Consortium. Shared genetic susceptibility to ischemic stroke and coronary artery disease: a genome-wide analysis of common variants. **Stroke**. 2014 Jan;45(1):24-3.

Opherk C, Gonik M, Duering M, Malik R, Jouvent E, Hervé D, Adib-Samii P, Bevan S, Pianese L, Silvestri S, Dotti MT, De Stefano N, Liem M, Boon EM, Pescini F, Pachai C, Bracoud L, Müller-Myhsok B, Meitinger T, Rost N, Pantoni L, Lesnik Oberstein S, Federico A, Ragno M, Markus HS, Tournier-Lasserve E, Rosand J, Chabriat H, Dichgans M. Genome-wide genotyping demonstrates a polygenic risk score associated with white matter hyperintensity volume in CADASIL. **Stroke.** 2014 Apr;45(4):968-72

Azghandi S, Prell C, van der Laan SW, Schneider M, Malik R, Berer K, Gerdes N, Pasterkamp G, Weber C, Haffner C, Dichgans M. Deficiency of the Stroke Relevant HDAC9 Gene Attenuates Atherosclerosis in Accord With Allele-Specific Effects at 7p21.1. **Stroke**. 2015 Jan;46(1):197-20.

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