

1. Proceedings of the 26th International Stroke Genetics Consortium Workshop.

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We encourage you to visit our website (<http://www.strokegenetics.org>) for further details.

Acknowledgements:

Steering Committee - Jin-Moo Lee, Chair and Israel Fernandez-Cadenas, Co-Chair; Members: Stephanie Dabette (Immediate Past-Chair), Ann-Katrin Giese (Junior member); Rufus Akinyemi, Jemma Hopewell, Steven Kittner, Jane Maguire, Paul Nyquist, Natalia Rost. Working Group Leaders- Acute Endophenotypes WG: Israel Fernandez-Cadenas, Jin-Moo Lee; Cognitive WG: Matt Pase, Brad Worrall; Imaging WG: Natalia Rost; Intracranial Aneurysm WG: Ynte Ruigrok, Philippe Bijlenga; Intracerebral Hemorrhage WG: Guido Falcone, Jonathan Rosand, Dan Woo; Meta/MegaStroke WG: Stephanie Dabette, Martin Dichgans, Jemma Hopewell; Mutliomics WG: Carlos Cruchaga, Myriam Fornage; Neuro-CHARGE WG: Myriam Fornage, Sudha Seshadri; SiGN WG: Steven Kittner, Brackie Mitchell; Translational Science WG: Chris Anderson, Tom Van Agtmael.

2. Quantitative imaging assessment of cerebral edema facilitates genetic evaluation of early brain injury after aneurysmal subarachnoid hemorrhage.

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Disclosure and Study Support: K23 NS099440 (RD).

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3. Genome-wide analysis study in extracranial- and intracranial atherosclerosis in ischemic stroke patients using UK biobank.

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Disclosure and Study Support: The authors have no conflicts of interest to declare.

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4. Coding Region Copy Number Variants in Intracerebral Hemorrhage.

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Disclosure and Study Support: The study was supported by the National Institutes of Health (NIH).

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5. Early Reduction in CSF Volume Captures the Spectrum of Cerebral Edema after Ischemic Stroke.

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6. Metabolomic Biomarker Predictors of Vascular Ischemia and Infarct Size in Acute Ischemic Stroke: Initial Results of Metabolome in Ischemic Stroke Study (MISS).

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Disclosure and Study Support: None Funding This work was supported by NIH grants -R01DK082766 funded by the National Institute of Health (NIDDK) and grants from Oklahoma Center for Neuroscience, Harold Hamm Diabetes Center, Oklahoma, and Team Science Grant funded by Presbyterian Health Foundation.

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7. Volume of hemorrhagic transformation after acute ischemic stroke predicts neurological deterioration better than radiologic classification.

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Disclosure and Study Support: Supported by K23 NS099487 (LH), K23 NS099440 (RD) and R01 NS085419 (JML).

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8. Genetic influences of stroke in African American Hypertensives from GenHAT.

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Disclosure and Study Support: Authors report no disclosures. This work is funded by the NIH NHLBI (5R01HL123782-04, PI: MR Irvin).

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9. Sex and Genetic Susceptibility Synergistically Influence Risk of Stroke and Myocardial Infarction in Middle-Aged Persons without Risk Factors.

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Disclosure and Study Support: Support: NIH, AHA and Neurocritical Care Society. Disclosures: none.

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10. Effects of the BDNF Val66Met Polymorphism on Acute Stage Measures of Function in Young Stroke Patients.

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Disclosure and Study Support: The authors have no conflicts of interest to disclose. Dr. Braun is supported by a grant from the National Center for Medical Rehabilitation Research, NIH/NICHD (K12HD093427). Drs. Cole and Kittner are supported by research grants from National Institutes of Health (NIH). Dr Cole is supported by a research grant from the American Heart Association and Bayer Pharmaceuticals.

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11. Epigenome-wide meta-analysis of cerebral white matter hyperintensities on MRI and integrated omics analysis.

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Disclosure and Study Support: No disclosure. This study is supported by NIH R01- NS087541

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12. Somatic Activating Mutations in Cerebral Aneurysms.

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Disclosure and Study Support: The authors have no conflicts of interest to declare.

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13. GWAS of SiGN with TOPMed Imputation Reference Panel Uncovers Novel Stroke Loci.

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14. Novel Transcripts miR-1301, miR-130, and miR-629 Influence Early Neurologic Outcome.

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15. Single-nuclei RNA-seq to ascertain human tissue.

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Disclosure and Study Support: This work was supported by grants from the National Institutes of Health (R01AG057777, R01AG044546, P01AG003991, RF1AG053303, R01AG035083, and R01NS085419) and the Alzheimer Association (NIRG-11-200110, BAND-14-338165, and BFG-15-362540). Dr. Cruchaga receives research support from Biogen, Eisai, Alector, and Parabon. Dr. Cruchaga is a member of the advisory board of ADx Healthcare and Vivid Genomics. The funders of the study had no role in the collection, analysis, or interpretation of data; in the writing of the report; or in the decision to submit the paper for publication. The other authors report no conflicts. Dr. Lee receives research support from Biogen.

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16. Genetic influences on early neurological instability after acute ischemic stroke: GENISIS results.

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Disclosure and Study Support: The authors have no conflicts of interest to declare.

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17. Genome-wide association study of early-onset ischemic stroke identifies novel locus on chromosome 12 near BCL7A/MLXIP.

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Disclosure and Study Support: NINDS R01NS105150. No conflicts of interest.

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18. Online Neurodegenerative Trait Integrative Multi-Omics Explorer.

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19. Identification of cerebrospinal fluid (CSF) protein quantitative trait loci (pQTLs) for stroke risk, recovery and other neurological disorders elucidates mechanisms underlying stroke.

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Disclosure and Study Support: This work was supported by grants from the National Institutes of Health (R01AG057777, R01AG044546, P01AG003991, RF1AG053303, R01AG035083, and R01NS085419), the Alzheimer Association (NIRG-11-200110, BAND-14-338165, and BFG-15-362540). Dr Cruchaga receives research support from Biogen, Eisai, Alector, and Paragon. Dr Cruchaga is a member of the advisory board of ADx Healthcare and Vivid Genomics. The other authors report no conflicts.

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20. An Inverse Relationship between Cerebral Microbleeds and Migraine Burden in CADASIL.

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Disclosure and Study Support: No funding was obtained. Dr. Majersik serves as the Outreach Committee chair for ISGC. No further disclosures. This study was previously presented at the American Academy of Neurology meeting May 2019.

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21. Prevalence of Monogenic disorders in Young Stroke Patients: Preliminary Results from the GENE_YAS study of the CRCS-K.

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Disclosure and Study Support: This study is supported by Takeda. Disclosures: None.

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22. Interleukin-6 signaling effects on ischemic stroke and cardiovascular disease: a Mendelian Randomization study.

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Disclosure and Study Support: The authors have no conflicts of interest to declare.

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23. Circulating monocyte chemoattractant protein-1 is associated with risk of incident stroke: a meta-analysis of population-based studies.

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Disclosure and Study Support: M. Georgakis is funded by scholarships from the German Academic Exchange Service (DAAD) and Onassis Foundation. This project has received funding from the European Union's Horizon 2020 research and innovation programme, SVDs@target and CoSTREAM; the DFG as part of the Munich Cluster for Systems Neurology; the Corona Foundation; the Fondation Leducq and the FP7/2007-2013 European Union project CVgenes@target. The funders had no role in study design, data collection, analysis, decision to publish, or preparation of the manuscript.

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24. Genome Wide Association Study of stroke in Indian Population.

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Disclosure and Study Support: We have been working in stroke genetics since 2009 in collaboration and funding support with UK India Education Research Initiative, Indian Council of Medical Research and Department of Biotechnology, Government of India. We declare no conflict of interest.

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25. Iron and cardiovascular disease: where we have got to with genetics.

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Disclosure and Study Support: Dipender Gill is funded by the Wellcome Trust 4i programme at Imperial College London.

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26. Increased Mean Transit Time and Blood Brain Permeability in Asymptomatic White Matter Lesions of Ischemic Origin.

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Disclosure and Study Support: Made possible by a Johns Hopkins department of Anesthesia STARR award. No other disclosures.

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27. Homocysteine, choline and lipids are associated with severe extracranial carotid artery stenosis: A metabolomics study.

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Disclosure and Study Support: Disclosure: None. Research Fund of Linkou Chang Gung Memorial Hospital (CMRPG3E2131 and BMRP 274). The funding body has not any role in the design of the study; collection, analysis, and interpretation of data; and in writing the manuscript.

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28. Characterization of Polygenic Risk in early onset stroke cases by comparison to later onset stroke.

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Disclosure and Study Support: No disclosures. Supported by NIH SIGN R01.

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29. Automated classification of clinical MRI stroke datasets with a recurrent convolutional neural network.

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Disclosure and Study Support: American Heart Association (#18UNPG34030160), NIH NINDS (R01NS086905, U01NS069208).

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30. Big Data Approaches to Neuroimaging: An Automated Processing Pipeline to Extract Cerebral Edema Phenotypes from Serial CT Scans of Stroke Patients.

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31. HIR outperforms rCBV and PCI as a tissue-based metric of collateral blood flow in acute ischemic stroke.

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32. A deep learning algorithm replicates expert human white matter hyperintensity segmentation better than other human raters.

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Disclosure and Study Support: The authors have no conflicts of interest to declare.

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33. GENISIS GWAS reveals two loci that implicate excitotoxicity in ischemic brain injury.

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Disclosure and Study Support: The authors have no conflicts of interest to declare.

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