



Isabel Hostettler

attending physician mbF
Neurochirurgie · Dept. III

Contact

Isabel Hostettler
Rorschacherstrasse 95
9007 St. Gallen

T +41 71 494 9740
Isabel.Hostettler@kssg.ch

Units

Neurochirurgie

Profile Function

attending physician mbF

Publications (40)

Knol M, Poot R, Evans T, Satizabal C, Mishra A, Sargurupremraj M, van der Auwera S, Duperron M, Jian X, Hostettler I, van Dam-Nolen D, Lamballais S, Pawlak M, Lewis C, Carrion-Castillo A, van Erp T, Reinbold C, Shin J, Scholz M, Håberg A, Kämpe A, Li G, Avinun R, Atkins J, Hsu F, Amod A, Lam M, Tsuchida A, Teunissen M, Aygün N, Patel Y, Liang D, Beiser A, Beyer F, Bis J, Bos D, Bryan R, Bülow R, Caspers S, Catheline G, Cecil C, Dalvie S, Dartigues J, DeCarli C, Enlund-Cerullo M, Ford J, Franke B, Freedman B, Friedrich N, Green M, Haworth S, Helmer C, Hoffmann P, Homuth G, Ikram M, Jack C, Jahanshad N, Jockwitz C, Kamatani Y, Knodt A, Li S, Lim K, Longstreth W, Macciardi F, Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, Enhancing Neuroimaging Genetics through Meta-Analysis (ENIGMA) Consortium, Mäkitie O, Mazoyer B, Medland S, Miyamoto S, Moebus S, Mosley T, Muetzel R, Mühleisen T, Nagata M, Nakahara S, Palmer N, Pausova Z, Preda A, Quidé Y, Reay W, Roshchupkin G, Schmidt R, Schreiner P, Setoh K, Shapland C, Sidney S, St Pourcain B, Stein J, Tabara Y, Teumer A, Uhlmann A, van der Lugt A, Vernooij M, Werring D, Windham B, Witte A, Wittfeld K, Yang Q, Yoshida K, Brunner H, Le Grand Q, Sim K, Stein D, Bowden D, Cairns M, Hariri A, Cheung C, Andersson S, Villringer A, Paus T, Cichon S, Calhoun V, Crivello F, Launer L, White T, Koudstaal P, Houlden H, Fornage M, Matsuda F, Grabe H, Debette S, Thompson P, Seshadri S, Adams H. Genetic variants for head size share genes and pathways with cancer. *Cell Rep Med* 2024;101529.

Sobowale O, Hostettler I, Wu T, Heal C, Wilson D, Shah D, Strbian D, Putaala J, Tatlisumak T, Vail A, Sharma G, Davis S, Werring D, Meretoja A, Allan S, Parry-Jones A. Baseline perihematomal edema, C-reactive protein, and 30-day mortality are not associated in intracerebral hemorrhage. *Front Neurol* 2024; 15:1359760.

Nash P, Best J, Ambler G, Wilson D, Banerjee G, Hostettler I, Seiffge D, Cohen H, Yousry T, Al-Shahi Salman R, Lip G, Brown M, Muir K, Houlden H, Jäger H, Werring D. Associations of renal function with cerebral small vessel disease and functional outcome in acute intracerebral haemorrhage: A hospital-based prospective cohort study. *J Neurol Sci* 2023; 452:120743.

El-Garci A, Zindel-Geisseler O, Dannecker N, Rothacher Y, Schlosser L, Zeitlberger A, Velz J, Sebök M, Eggenberger N, May A, Bijlenga P, Guerra-Lopez U, Maduri R, Beaud V, Starnoni D, Chiappini A, Rossi S, Robert T, Bonasia S, Goldberg J, Fung C, Bervini D, Gutbrod K, Maldaner N, Früh S, Schwind M, Bozinov O, Neidert M, Brugger P, Keller E, GERMANS M, Regli L, Hostettler I, Stienen M, MoCA-DCI study group. Successful weaning versus permanent cerebrospinal fluid diversion after aneurysmal subarachnoid hemorrhage: post hoc analysis of a Swiss multicenter study. *Neurosurg Focus* 2023; 54:E3.

Rahmioglu N, Mortlock S, Ghiasi M, Møller P, Stefansdottir L, Galarneau G, Turman C, Danning R, Law M, Sapkota Y, Christofidou P, Sarp S, Giri A, Banasik K, Krassowski M, Lepamets M, Marciniak B, Nõukas M, Perro D, Sliz E, Sobalska-Kwapis M, Thorleifsson G, Topbas-Selcuki N, Vitonis A, Westergaard D, Arnadottir R, Burgdorf K, Campbell A, Cheuk C, Clementi C, Cook J, De Vivo I, DiVasta A, Dorien O, Donoghue J, Edwards T, Fontanillas P, Fung J, Geirsson R, Girling J, Harkki P, Harris H, Healey M, Heikinheimo O, Holdsworth-Carson S, Hostettler I, Houlden H, Houshdaran S, Irwin J, Jarvelin M, Kamatani Y, Kennedy S, Kepka E, Kettunen J, Kubo M, Kulig B, Kurra V, Laivuori H, Laufer M, Lindgren C, MacGregor S, Mangino M, Martin N, Matalliotaki C, Matalliotakis M, Murray A, Ndungu A, Nezhad C, Olsen C, Opoku-Anane J, Padmanabhan S, Paranjpe M, Peters M, Polak G, Porteous D, Rabban J, Rexrode K, Romanowicz H, Saare M, Saavalainen L, Schork A, Sen S, Shafrir A, Siewierska-Górska A, Słomka M, Smith B, Smolarz B, Szaflik T, Szyłto K, Takahashi A, Terry K, Tomassetti C, Treloar S, Vanhie A, Vincent K, Vo K, Werring D, Zeggini E, Zervou M, DBDS Genomic Consortium, FinnGen Study, FinnGen Endometriosis Taskforce, Celmatix Research Team, 23andMe Research Team, Adachi S, Buring J, Ridker P, D'Hooghe T, Goulielmos G, Hapangama D, Hayward C, Horne A, Low S, Martikainen H, Chasman D, Rogers P, Saunders P, Sirota M, Spector T, Strapagiel D, Tung J, Whiteman D, Giudice L, Velez Edwards D, Uimari O, Kraft P, Salumets A, Nyholt D, Mägi R, Stefansson K, Becker C, Yurttas-Beim P, Steinhorsdottir V, Nyegaard M, Missmer S, Montgomery G, Morris A, Zondervan K. The genetic basis of endometriosis and comorbidity with other pain and inflammatory conditions. *Nat Genet* 2023; 55:423-436.

Hostettler I, Lange N, Schwendinger N, Frangoulis S, Hirle T, Trost D, Gempt J, Kreiser K, Wostrack M, Meyer B. Duration between aneurysm rupture and treatment and its association with outcome in aneurysmal subarachnoid haemorrhage. *Sci Rep* 2023; 13:1527.

Koller H, Stengel F, Hostettler I, Koller J, Fekete T, Ferraris L, Hitzl W, Hempfing A. Clinical and surgical results related to anterior-only multilevel cervical decompression and instrumented fusion for degenerative disease. *Brain Spine* 2023; 3:101716.

Hostettler I, Lange N, Schwendinger N, Ambler G, Hirle T, Frangoulis S, Trost D, Gempt J, Kreiser K, Meyer B, Winter C, Wostrack M. VPS dependency after aneurysmal subarachnoid haemorrhage and influence of admission hyperglycaemia. *Eur Stroke J* 2022; 8:301-308.

Gaastra B, Duncan P, Bakker M, Hostettler I, Alg V, Houlden H, Ruigrok Y, Galea I, Tapper W, Werring D, Bulters D. Genetic variation in NFE2L2 is associated with outcome following aneurysmal subarachnoid haemorrhage. *Eur J Neurol* 2022; 30:116-124.

Schwarz G, Banerjee G, Hostettler I, Ambler G, Seiffge D, Ozkan H, Browning S, Simister R, Wilson D, Cohen H, Yousry T, Al-Shahi Salman R, Lip G, Brown M, Muir K, Houlden H, Jäger R, Werring D. MRI and CT imaging biomarkers of cerebral amyloid angiopathy in lobar intracerebral hemorrhage. *Int J Stroke* 2022; 18:85-94.

Koller H, Ansorge A, Hostettler I, Koller J, Hitzl W, Hempfing A, Jeszenszky D. Center of rotation analysis for thoracic and lumbar 3-column osteotomies in patients with sagittal plane spinal deformity: insights in geometrical changes can improve understanding of correction mechanics. *J Neurosurg Spine* 2021:1-12.

Koller H, Mühlenkamp K, Hitzl W, Koller J, Ferraris L, Hostettler I, Hempfing A. Surgical outcomes with anatomic reduction of high-grade spondylolisthesis revisited: an analysis of 101 patients. *J Neurosurg Spine* 2021:1-11.

O'Connor E, Danno D, Lagrata S, Grangeon L, Kilbride E, Paemeleire K, Kelderman T, Vikelis M, Cavalleri G, Trembath R, Wood N, Matharu M, Houlden H, Vandrovцова J, Waldenlind E, Sjöstrand C, Steinberg A, Winsvold B, Kockum I, Campbell C, Quinn O, Yip J, Vijfhuizen L, Harder A, Southgate L, Liesecke F, Sivakumar P, Ran C, Fourier C, Giffin N, Silver N, Adebimpe J, Efthymiou S, Sullivan R, Simpson B, Cader M, Davies B, Hostettler I, Ahmed F, Belin A. Genome-Wide Association Study Identifies Risk Loci for Cluster Headache. *Ann Neurol* 2021; 90:193-202.

Hostettler I, Madduri S, Guzman R, Marbacher S, Mariani L, Kalbermatten D, Waran V, Karuppiyah R, Nevzati E, Wanderer S, Bikis C, Jayashankar N, Roethlisberger M. Clinical Studies and Pre-clinical Animal Models on Facial Nerve Preservation, Reconstruction, and Regeneration Following Cerebellopontine Angle Tumor Surgery-A Systematic Review and Future Perspectives. *Front Bioeng Biotechnol* 2021; 9:659413.

Seiffge D, Jäger H, Muir K, Brown M, Lip G, Al-Shahi Salman R, Yousry T, Cohen H, Shakeshaft C, Houlden H, Hostettler I, Banerjee G, Ambler G, Wilson D, Werring D. Small vessel disease burden and intracerebral haemorrhage in patients taking oral anticoagulants. *J Neurol Neurosurg Psychiatry* 2021

Ruigrok Y, Sargurupremraj M, Dichgans M, Malik R, Klijn C, Zaroff J, Breen G, Coleman J, Kim H, Ko N, Bown M, Jones G, Martin O, Dauvillier J, Schilling S, Hirsch S, Tatlisumak T, Amouyel P, Debette S, Veldink J, Kamatani Y, Bijlenga P, Redon R, Woo D, Werring D, Broderick J, Lindgren A, von Und Zu Fraunberg M, Jaaskelainen J, Niemelä M, Gaal-Paavola E, Slowik A, Pera J, Worrall B, Rinkel G, Friedrich C, Verschuren W, Zwart J, Chen Z, Millwood I, Liang L, Lin K, Walters R, Matsuda K, Terao C, Akiyama M, Koido M, van Eijk K, Alg V, Hostettler I, Bourcier R, Morel S, van Rheenen W, van der Spek R, Rouleau G, Zhou S, Rannikmäe K, Hveem K, Willer C, Sandvei M, Brumpton B, Johnsen M, Børte S, Winsvold B, Desal H, Eugène F, Shotar E, Gentric J, Naggara O, Dina C, van den Berg L, Houlden H, Sudlow C, Bakker M. Author Correction: Genome-wide association study of intracranial aneurysms identifies 17 risk loci and genetic overlap with clinical risk factors. *Nat Genet* 2021; 53:254.

Ille S, Schroeder A, Hostettler I, Wostrack M, Meyer B, Krieg S. Impacting the Treatment of Highly Eloquent Supratentorial Cerebral Cavernous Malformations by Noninvasive Functional Mapping-An Observational Cohort Study. *Oper Neurosurg (Hagerstown)* 2021; 21:467-477.

Obermueller K, Hostettler I, Wagner A, Boeckh-Behrens T, Zimmer C, Gempt J, Meyer B, Wostrack M. Frequency and risk factors for postoperative aneurysm residual after microsurgical clipping. *Acta Neurochir (Wien)* 2020; 163:131-138.

Ruigrok Y, Sargurupremraj M, Dichgans M, Malik R, Klijn C, Zaroff J, Breen G, Coleman J, Kim H, Ko N, Bown M, Jones G, Martin O, Dauvillier J, Schilling S, Hirsch S, Tatlisumak T, Amouyel P, Debette S, Veldink J, Kamatani Y, Bijlenga P, Redon R, Woo D, Werring D, Broderick J, Lindgren A, von Und Zu Fraunberg M, Jaaskelainen J, Niemelä M, Gaal-Paavola E, Slowik A, Pera J, Worrall B, Rinkel G, Friedrich C, Verschuren W, Zwart J, Chen Z, Millwood I, Liang L, Lin K, Walters R, Matsuda K, Terao C, Akiyama M, Koido M, van Eijk K, Alg V, Hostettler I, Bourcier R, Morel S, van Rheenen W, van der Spek R, Rouleau G, Zhou S, Rannikmäe K, Hveem K, Willer C, Sandvei M, Brumpton B, Johnsen M, Børte S, Winsvold B, Desal H, Eugène F, Shotar E, Gentric J, Naggara O, Dina C, van den Berg L, Houlden H, Sudlow C, Bakker M. Genome-wide association study of intracranial aneurysms identifies 17 risk loci and genetic overlap with clinical risk factors. *Nat Genet* 2020; 52:1303-1313.

Hostettler I, Houlden H, Werring D, Grieve J, Brown M, Kitchen N, Bulters D, Walsh D, Bonner S, Alg V, Davagnanam I, Vandrovicova J, O'Connor E, Bugiardini E, O'Callaghan B. Genetic Variants Are an Underlying Cause of Familial Intracranial Aneurysms. *Neurology* 2020; 96:e947-e955.

MacKinnon A, Gottesman R, Schmidt R, Houlden H, Stott D, Koh J, Beekman M, Amin N, Vernooij M, Tozer D, Beiser A, Morris Z, Yang Q, Himali J, DeCarli C, Gudnason V, Markus H, Launer L, Seshadri S, Ikram M, Wardlaw J, Schmidt H, Werring D, Mosley T, Jukema J, Rost N, Wong T, Slagboom P, van Duijn C, Deary I, Kantarci K, Pirpamer L, van den Akker E, Hilal S, Giese A, Trompet S, Luciano M, Hostettler I, Liu J, Hofer E, Fornage M, Smith A, Romero J, Adams H, Traylor M, Lu D, Vojinovic D, Li S, Cheng C, Windham B, Bastin M, van der Lugt A, Saba Y, Chen C, van der Grond J, Liewald D, Satizabal C, Yilmaz P, Wilson D, Jack C, van der Lee S, Sigurdsson S, Knol M. Association of common genetic variants with brain microbleeds: A genome-wide association study. *Neurology* 2020; 95:e3331-e3343.

Banerjee G, Werring D, Jäger H, Brown M, Muir K, Houlden H, Lip G, Al-Shahi Salman R, Yousry T, Cohen H, Shakeshaft C, Hostettler I, Ambler G, Wilson D. Longer term stroke risk in intracerebral haemorrhage survivors. *J Neurol Neurosurg Psychiatry* 2020; 91:840-845.

Banerjee G, Werring D, Jäger H, Brown M, Muir K, Houlden H, Lip G, Al-Shahi Salman R, Yousry T, Cohen H, Lunawat S, Shakeshaft C, Hostettler I, Wilson D, Ambler G. Baseline factors associated with early and late death in intracerebral haemorrhage survivors. *Eur J Neurol* 2020; 27:1257-1263.

Morton M, Galea I, Werring D, Bulters D, Gaunt T, Houlden H, Zolnourian A, Walsh D, Kitchen N, Grieve J, Garland P, Gaastra B, Durnford A, Brown M, Bonner S, Alg V, Kazmi N, Hostettler I. Haptoglobin genotype and outcome after aneurysmal subarachnoid haemorrhage. *J Neurol Neurosurg Psychiatry* 2020; 91:305-313.

Hostettler I, Werring D, Galea I, Bulters D, Houlden H, Muir K, Brown M, Lip G, Al-Shahi Salman R, Yousry T, Cohen H, Jäger H, Shakeshaft C, Wilson D, Gaunt T, Kazmi N, Ambler G, Morton M. Haptoglobin genotype and outcome after spontaneous intracerebral haemorrhage. *J Neurol Neurosurg Psychiatry* 2020; 91:298-304.

Hostettler I, Houlden H, Grieve J, Brown M, Kitchen N, Bulters D, Walsh D, Bonner S, Alg V, Ambler G, Pavlou M, Werring D. Assessment of the Subarachnoid Hemorrhage International Trialists (SAHIT) Models for Dichotomized Long-Term Functional Outcome Prediction After Aneurysmal Subarachnoid Hemorrhage in a United Kingdom Multicenter Cohort Study. *Neurosurgery* 2020; 87:1269-1276.

Hostettler I, Regli L, Pangalu A, Richter J, Neidert M, Prömmel P, Muroi C, Ambler G, Sebök M, Germans M. Validation and Optimization of Barrow Neurological Institute Score in Prediction of Adverse Events and Functional Outcome After Subarachnoid Hemorrhage—Creation of the HATCH (Hemorrhage, Age, Treatment, Clinical State, Hydrocephalus) Score. *Neurosurgery* 2020; 88:96-105.

Stanton J, Chandratheva A, Wilson D, Hostettler I, Islam S, Werring D. Clinical features distinguish cerebral amyloid angiopathy-associated convexity subarachnoid haemorrhage from suspected TIA. *J Neurol* 2019; 267:133-137.

Roethlisberger M, Jayapalan R, Hostettler I, Bin Abd Kadir K, Mun K, Brand Y, Mariani L, Prepageran N, Waran V. Evolving Strategies for Resection of Sellar/Parasellar Synchronous Tumors via Endoscopic Endonasal Approach: A Technical Case Report and Systematic Review of the Literature. *World Neurosurg* 2019; 133:381-391.e2.

Hostettler I, Houlden H, Werring D, Muir K, Brown M, Lip G, Al-Shahi Salman R, Yousry T, Cohen H, Jäger H, Shakeshaft C, Seiffge D, Wilson D, Sharma N, Wong A, Bernal-Quiros M. C9orf72 and intracerebral hemorrhage. *Neurobiol Aging* 2019; 84:237.e1-237.e3.

Hostettler I, Seiffge D, Werring D. Intracerebral hemorrhage: an update on diagnosis and treatment. *Expert Rev Neurother* 2019; 19:679-694.

Kontojannis V, Hostettler I, Brogan R, Raza M, Harper-Payne A, Kareem H, Boutelle M, Wilson M. Detection of intracranial hematomas in the emergency department using near infrared spectroscopy. *Brain Inj* 2019; 33:875-883.

Hostettler I, Werring D. Acute Convexity Subarachnoid Hemorrhage: What the Neurosurgeon Needs to Know. *World Neurosurg* 2018; 123:184-187.

Hostettler I, Murahari S, Raza M, Kontojannis V, Tsang K, Kareem H, Jones B, Wilson M. Case report on the spontaneous resolution of a traumatic intracranial acute subdural haematoma: evaluation of the guidelines. *Acta Neurochir (Wien)* 2018; 160:1311-1314.

Hostettler I, Werring D, Grieve J, Houlden H, Brown M, Kitchen N, Bulters D, Walsh D, Bonner S, Jichi F, Shahi N, Alg V. Characteristics of Unruptured Compared to Ruptured Intracranial Aneurysms: A Multicenter Case-Control Study. *Neurosurgery* 2018; 83:43-52.

Wilson D, Hostettler I, Ambler G, Banerjee G, Jäger H, Werring D. Convexity subarachnoid haemorrhage has a high risk of intracerebral haemorrhage in suspected cerebral amyloid angiopathy. *J Neurol* 2017; 264:664-673.

Wilson D, Hostettler I, Ambler G, Banerjee G, Jäger H, Werring D. Erratum to: Convexity subarachnoid haemorrhage has a high risk of intracerebral haemorrhage in suspected cerebral amyloid angiopathy. *J Neurol* 2017; 264:674.

Neidert M, Regli L, Woernle C, Eisele G, Kofmehl R, Held U, Mohme M, Burkhardt J, Hostettler I, Bozinov O. The influence of intraoperative resection control modalities on survival following gross total resection of glioblastoma. *Neurosurg Rev* 2016; 39:401-9.

Lugli A, Terracciano L, Spagnoli G, Carafa V, Tornillo L, Mele V, Muraro M, Hostettler I, Iezzi G, Zlobec I. Prognostic impact of the expression of putative cancer stem cell markers CD133, CD166, CD44s, EpCAM, and ALDH1 in colorectal cancer. *Br J Cancer* 2010; 103:382-90.

Hostettler I, Zlobec I, Terracciano L, Lugli A. ABCG5-positivity in tumor buds is an indicator of poor prognosis in node-negative colorectal cancer patients. *World J Gastroenterol* 2010; 16:732-9.

Projects (1)

Shunt-dependency after aneurysmal subarachnoid haemorrhage – the role of early hyperglycaemia in cerebrospinal fluid and blood

Clinical Studies - May 26, 2024 - Sep 1, 2027

Ongoing

Kantonsspital St.Gallen

Rorschacher Strasse 95

CH-9007 St.Gallen

T: +41 71 494 11 11

support.forschung@kssg.ch