

# CURRICULUM VITAE

## Prof. Dr. med. BORIS KRISCHEK



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Oct 92 - Nov 98	Medical School at the <b>University of Saarland, Germany</b> and the <b>Université Libre de Bruxelles, Belgium</b>
Jan 99 - Feb 2000	Internship (Arzt im Praktikum) at the <b>Free University of Berlin</b> (Head of the Department: <b>Mario BROCK</b> )
Mar 2000 – Mar 2005	Residency in Neurosurgery at the <b>University of Marburg</b> (Head of the Department: <b>Helmut BERTALANFFY</b> )
Mar 2005	German Board Certification in Neurosurgery
Apr 2005 – Apr 2007	<b>Postdoctoral Research Fellow</b> of the <b>Alexander-von-Humboldt Foundation</b> and the Japan Society for the Promotion of Science at the Division of Genetic Diagnosis, The <b>University of Tokyo</b> (Ituro INOUE) and the Department of Neurosurgery, <b>Tokyo Women's Medical University</b> (Tomokatsu Hori) Scientific Topic: " <i>The Genetic Influence on the Formation and Rupture of Intracranial Aneurysms</i> "
May 2007 – June 2011	Appointment as Junior Staff Neurosurgeon at the <b>University of Tübingen</b> (Head of the Department: <b>Marcos TATAGIBA</b> )
July 2011 – December 2012	<b>Clinical Fellowship</b> in Skull Base Surgery/Neurooncology at the <b>Toronto Western Hospital, University of Toronto</b> with <b>Fred GENTILI, Mark BERNSTEIN, Gelareh ZADEH</b> "Zane Cohen Fellowship Achievement Award" 2012 for best clinical fellow of all surgical departments at the University of Toronto
January 2013 -	Appointment as Staff Neurosurgeon at the <b>University of Cologne</b> (Head of the Department: <b>Roland GOLDBRUNNER</b> )

### Memberships

German Society of Neurosurgery (DGNC)  
German Society of Skull Base Surgery (GSB)  
American Association of Neurological Surgeons (AANS)  
Society for Neurooncology (SNO)  
Deutscher Hochschulverband (DHV)  
Foreign Correspondent's Club of Japan (FCCJ)

### **Reviewer for**

Stroke  
Journal of Neurological Surgery Part A  
Neurosurgical Review  
American Journal of Human Genetics  
Neurology  
Journal of Human Genetics  
Circulation  
Molecular and Cellular Biochemistry  
Journal of Neurological Surgery  
Neurology India  
International Journal of Medical Robotics and Computer Assisted Surgery

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### **Pubmed Citations (as of February 2014)**

Khan OH, **Krischek B**, Holliman D, Kliromos G, Kucharczyk W, Vescan A, Gentili F, Zadeh G: *Pure endoscopic expanded endonasal approach for olfactory groove and tuberculum sellae meningiomas* ., J Clin Neurosci. 2013 Nov 4.

Liu W, Senevirathna ST, Hitomi T, Kobayashi H, Roder C, Herzig R, Kraemer M, Voormolen MH, Cahová P, **Krischek B**, Koizumi A: *Genomewide association study identifies no major founder variant in Caucasian moyamoya disease*, Journal of Genetics. 2013 Dec;92(3):605-9

**Krischek B**, Vescan A, Zweifel C, Zadeh G, Gentili F: *Endonasal endoscopic release of a delayed tension pneumocephalus after craniofacial resection of a tumor of the anterior skull base*, Journal of Neurological Surgery Part A, Central European Neurosurgery. 2013 Dec;74 Suppl 1:e271-4.

**Krischek B**, Godoy BL, Zadeh G, Gentili F: *From craniofacial resection to the endoscopic approach in skull base surgery*, World Neurosurgery. 2013 Jul-Aug;80(1-2):56-8

Feigl GC, Decker K, Wurms M, **Krischek B**, Ritz R, Unertl K, Tatagiba M: *Neurosurgical procedures in the semisitting position: evaluation of the risk of paradoxical venous air embolism in patients with a patent foramen ovale*, World Neurosurgery. 2013 Jan 4. [Epub ahead of print]  
(Impact Factor: 1.765)

Kasuya H, Kubo O, Kato K, **Krischek B**: *Histological characteristics of incidentally-found growing meningiomas*, Journal of Medical Investigation. 2012;59(3-4):241-5

Liu C, Roder C, Schulte C, Kasuya H, Akagawa H, Nishizawa T, Yoneyama T, Okada Y, Khan N, Tatagiba M, Berg D, **Krischek B**: *Analysis of TGFB1 in European and Japanese Moyamoya Disease Patients*, European Journal of Medical Genetics 2012 Oct;55(10):531-4

Yasuno K, Bakırıcıoğlu M, Low SK, Bilgüvar K, Gaál E, Ruigrok YM, Niemelä M, Hata A, Bijlenga P, Kasuya H, Jääskeläinen JE, Krex D, Auburger G, Simon M, **Krischek B**, Ozturk AK, Mane S, Rinkel GJ, Steinmetz H, Hernesniemi J, Schaller K, Zembutsu H, Inoue I, Palotie A, Cambien F, Nakamura Y, Lifton RP, Günel M: *Common variant near the endothelin receptor type A (EDNRA) gene is associated with intracranial aneurysm risk*, Proceedings of the National Academy of Sciences108(49):19707-12, 2011

Roder C, Kasuya H, Harati A, Tatagiba M, Inoue I, **Krischek B**: *Metaanalysis of microarray gene expression studies on intracranial aneurysms*, Neuroscience 201:105-13, 2012

Kraemer M, Heinemann FM, Horn PA, Venker C, Berlit P, **Krischek B**, Khan N: *Inheritance of Moyamoya Disease in a Caucasian Family*, European Journal of Neurology Epub, 2011

**Krischek B**, Kasuya H, Khan N, Tatagiba M, Roder C, Kraemer M: *Genetic and Clinical Characteristics of Moyamoya Disease in Europeans*, Acta Neurochirurgica Suppl 112:31-4, 2011

Liu W, Morito D, Takashima S, Mineharu Y, Kobayashi H, Hitomi T, Hashikata H, Matsuura N, Yamazaki S, Toyoda A, Kikuta K, Takagi Y, Harada K, Fujiyama A, Herzig R, **Krischek B**, Zou L, Kim JE, Kitakaze M, Miyamoto S, Nagata K, Hashimoto N, Koizumi A: *Identification of RNF213 as a susceptibility gene for moyamoya disease and its possible role in the vascular development*, PLoS One 6 (7):e22542, 2011

Dengler J, Heuschmann PU, Endres M, Meyer B, Rohde V, Rufenacht DA, Vajkoczy P; Giant Intracranial Aneurysm Study Group: *The rationale and design of the Giant Intracranial Aneurysm Registry: a retrospective and prospective study*. International Journal of Stroke 6:266-270, 2011

Roder C, Peters V, Kasuya H, Nishizawa T, Takehara Y, Berg D, Schulte C, Khan N, Tatagiba M, **Krischek B**: *Analysis of ACTA2 in European Moyamoya Disease Patients*, European Journal of Paediatric Neurology 15:117-22, 2011

Roder C, Peters V, Kasuya H, Nishizawa T, Takehara Y, Berg D, Schulte C, Khan N, Tatagiba M, **Krischek B**: *Common Genetic Polymorphisms in Moyamoya and Atherosclerotic Disease in Europeans*, Childs Nervous System 27:245-52, 2011

Roder C, Nayak NR, Khan N, Tatagiba M, Inoue I, **Krischek B**: *Genetics of Moyamoya Disease* Journal of Human Genetics 55:711-6, 2010

Akiyama K, Narita A, Nakaoka H, Cui T, Takahashi T, Yasuno K, Tajima A, **Krischek B**, Yamamoto K, Kasuya H, Hata A, Inoue I: *Genome-wide Association Study to identify Genetic Variants present in Japanese Patients harboring Intracranial Aneurysms*, Journal of Human Genetics 55:656-61, 2010

Nakaoka H, Takahashi T, Akiyama K, Cui T, Tajima A, **Krischek B**, Kasuya H, Hata A, Inoue I: *Differential Effects of Chromosome 9p21 Variation on Subphenotypes of Intracranial Aneurysm. Site distribution*, Stroke 41:1593-8, 2010

Roder C, Peters V, Kasuya H, Nishizawa T, Takehara Y, Berg D, Schulte C, Khan N, Tatagiba M, **Krischek B**: *Polymorphisms in TGFB1 and PDGFRB are associated with Moyamoya Disease in European Patients*, Acta Neurochirurgica 152:2153-60, 2010

**Krischek B**, Tajima A, Akagawa H, Narita A, Ruigrok Y, Rinkel G, Wijmenga C, Feigl GC, Kim CJ, Hori T, Tatagiba M, Kasuya H, Inoue I: *Association of the Jun Dimerization Protein 2 Gene with Intracranial Aneurysms in Japanese and Korean Cohorts as compared to a Dutch Cohort*, Neuroscience 169:339-343, 2010

Yasuno K, Bilguvar K, Bijlenga P, Low SK, **Krischek B**, Auburger G, Simon M, Krex D, Arlier Z, Nayak N, Ruigrok YM, Niemelä M, Tajima A, von und zu Fraunberg M, Dóczsi T, Wirjatijasa F, Hata A, Blasco J, Oszvald A, Kasuya H, Zilani G, Schoch B, Singh P, Stürer C, Risselada R, Beck J, Sola T, Ricciardi F, Aromaa A, Illig T, Schreiber S, van Duijn CM, van den Berg LH, Perret C, Proust C, Roder C, Ozturk AK, Gaál E, Berg D, Geisen C, Friedrich CM, Summers P, Frangi AF, State MW, Wichmann HE, Breteler MM, Wijmenga C, Mane S, Peltonen L, Elio V, Sturkenboom MC, Lawford P, Byrne J, Macho J, Sandalcioglu EI, Meyer B, Raabe A, Steinmetz H, Rufenacht D, Jääskeläinen JE, Hernesniemi J, Rinkel GJ, Zembutsu H, Inoue I, Palotie A, Cambien F, Nakamura Y, Lifton RP, Günel M: *Genome-wide Association Study of Intracranial Aneurysm identifies three new Risk Loci*, Nature Genetics 42:420-425, 2010

Liu W, Hashikata H, Inoue K, Matsuura N, Mineharu Y, Kobayashi H, Kikuta K, Takagi Y, Hitomi T, **Krischek B**, Zou LP, Fang F, Herzig R, Kim JE, Kang HS, Oh CW, Tregouet DA, Hashimoto N, Koizumi A: *A rare Asian Founder Polymorphism of Raptor may explain the high Prevalence of Moyamoya Disease among East Asians and its low Prevalence among Caucasians*, Environmental Health and Preventive Medicine Epub ahead of print, 2009

Feigl GC, Ritz R, Moraes M, Klein J, Ramina K, Gharabaghi A, **Krischek B**, Danz S, Bornemann A, Liebsch M, Tatagiba MS: *Resection of Malignant Brain Tumors in Eloquent Cortical Areas: A new Multimodal Approach combining 5-Aminolevulinic Acid and Intraoperative Monitoring*, Journal of Neurosurgery 113:352-7, 2009

Ruigrok Y, Rinkel GJ, Wijmenga C, Kasuya H, Tajima A, Takahashi T, Hata A, Inoue I, **Krischek B**: *Association Analysis of Genes involved in the Maintenance of the Integrity of the Extracellular Matrix with Intracranial Aneurysms in a Japanese Cohort*, Cerebrovascular Diseases 28:131-134, 2009

**Krischek B**, Kasuya H: *Gene Expression Microarray Studies of Intracranial Aneurysm Walls lead to Similar Results*, Stroke 40:e514, 2009

**Krischek B**, Kasuya H, Tajima A, Akagawa H, Sasaki T, Yoneyama T, Ujiie H, Kubo O, Bonin M, Takakura K, Hori T, Inoue I: *Network-Based Gene Expression Analysis of Intracranial Aneurysm Tissue Reveals Role of Antigen Presenting Cells*, Neuroscience 154:1398-1407, 2008

**Krischek B**, Tatagiba M: *The Influence of Genetics on Intracranial Aneurysm Formation and Rupture: Current Knowledge and its Possible Impact on Future Treatment*, Advances and Technical Standards in Neurosurgery 33: 131-147, 2008

Ritz R, Heckl S, Safavi-Abbasi S, Feigl GC, **Krischek B**, Lüdemann W, Mirzayan JM, Koerbel A, Samii M, Tatagiba M, Gharabaghi A: *Predictive Factors for Beneficial Application of High-Frequency Electromagnetics for Tumour Vaporization and Coagulation in Neurosurgery*, World Journal of Surgical Oncology 6:45, 2008

Sasahara A, Kasuya H, **Krischek B**, Tajima A, Onda H, Sasaki T, Akagawa H, Hori T, Inoue I: *Gene Expression in a Canine Basilar Artery Vasospasm Model: a Genome-Wide Network-Based Analysis*, Neurosurgical Review 31:283-290, 2008

Gharabaghi A, **Krischek B**, Rosahl S, Feigl G, Lüdemann W, Mirzayan J, Samii M, Tatagiba M, Heckl S: *Image-Guided Craniotomy for Frontal Sinus Preservation During Meningioma Surgery*, European Journal of Surgical Oncology 34:928-931, 2008

Gharabaghi A, Safavi-Abbasi S, **Krischek B**, Feigl G, Lüdemann W, Mirzayan J, Samii M, Tatagiba M, Heckl S: *The Use of High-Frequency Electromagnetics in Neurosurgery*, European Journal of Surgical Oncology 34:716-719, 2008

**Krischek B**, Kasuya H, Onda H, Hori T: *Nicardipine Prolonged-Release Implants for Preventing Cerebral Vasospasm After Subarachnoid Hemorrhage: Effect and Outcome in the First 100 Patients*, Neurologia Medico Chirurgica 47: 389-394, 2007

Sasahara A, Kasuya H, Akagawa H, Ujike H, Kubo O, Sasaki T, Onda H, Sakamoto Y, **Krischek B**, Hori T, Inoue I: *Increased Expression of Ephrin A1 in Brain Arteriovenous Malformation: DNA Microarray Analysis*, Neurosurgical Review 30: 299-305, 2007

Akagawa H, Narita A, Yamada H, Tajima A, **Krischek B**, Kasuya H, Hori T, Kubota M, Saeki N, Hata A, Mizutani T, Inoue I: *Systematic Screening of Lysyl Oxidase-like (LOXL) Family Genes demonstrates that LOXL2 is a Susceptibility Gene to Intracranial Aneurysms*, Human Genetics 121: 377-387, 2007

**Krischek B**, Akagawa H, Tajima A, Narita A, Kasuya H, Hori T, Inoue I: *The Alanine/Threonine Polymorphism of the Alpha-1-Antichymotrypsin (SERPINA3) Gene and Ruptured Intracranial Aneurysms in the Japanese Population* Cerebrovascular Diseases 23: 46-49, 2007

**Krischek B**, Kasuya H, Akagawa H, Tajima A, Narita A, Onda H, Hori T, Inoue I: *Using Endothelial Nitric Oxide Synthase Gene Polymorphisms to Identify Intracranial Aneurysms more Prone to Rupture in Japanese Patients*, Journal of Neurosurgery 105: 717-722, 2006

**Krischek B**, Inoue I: *The Genetics of Intracranial Aneurysms*, Journal of Human Genetics 51: 587-594, 2006

Akagawa H, Tajima A, Sakamoto Y, **Krischek B**, Yoneyama T, Kasuya H, Onda H, Hori T, Kubota M, Machida T, Saeki N, Hata A, Hashiguchi K, Kimura E, Kim CJ, Yang TK, Lee JY, Kimm K, Inoue I: *A Haplotype Spanning Two Genes, ELN and LIMK1, Decreases their Transcripts and Confers Susceptibility to Intracranial Aneurysms*, Human Molecular Genetics 15: 1722-1734, 2006

**Krischek B**, Narita A, Akagawa H, Kasuya H, Tajima A, Onda H, Yoneyama T, Hori T, Inoue I: *Is there any Evidence for Linkage on Chromosome 17cen in Affected Japanese Sib-pairs with an Intracranial Aneurysm?* Journal of Human Genetics 51: 491-494, 2006

**Krischek B**, Inoue I, Kasuya H: Collagen Morphology Is Not Associated with the Ala549Pro Polymorphism of the COL1A2 Gene. Letter, Stroke 36: 2068 - 2069, 2005

**Krischek B**, Brannath W, Klinkhardt U, Wieding JU, Nemeh A, Heinrich W, Schenk J, Wenzel E: *Role of the Retentiontest Homburg (RTH) in Evaluating Platelet Hyperactivity and in Monitoring Therapy with Antiplatelet Drugs*, Seminars in Thrombosis and Hemostasis 31: 458-463, 2005

**Krischek B**, Morgenstern E, Mestres P, Klinkhardt U, Brannath W, Wieding JU, Nemeh A, Heinrich W, Schenk J, Wenzel E: *Adhesion, Spreading and Aggregation of Platelets in Flowing Blood and the Reliability of the Retentiontest Homburg (RTH)*, Seminars in Thrombosis and Hemostasis 31: 449-457, 2005

Benes L, Shiratori K, Gurschi M, Sure U, Tirakotai W, **Krischek B**, Bertalanffy H: *Is Preoperative High-resolution Magnetic Resonance Imaging Accurate in Predicting Neurovascular Compression in Patients with Trigeminal Neuralgia? A Single-blind Study*, Neurosurgical Review 28: 131-136, 2005

**Krischek B**, Yamaguchi S, Sure U, Benes L, Bien S, Bertalanffy H: *Arteriovenous Malformation Surrounding the Trigeminal Nerve--Case Report*, Neurologia Medico-Chirurgica 44: 68-71, 2004

Benes L, Wakat JP, Jüttner J, Riegel T, **Krischek B**, Bertalanffy H, Bien S: *The Doppler-Guided Transfalcine Venous Approach in Selected Cases of Vein of Galen Malformations*, Zentralblatt für Neurochirurgie 64: 45-50, 2003

Tirakotai W, Sure U, Benes L, **Krischek B**, Bien S, Bertalanffy H: *Image-Guided Transsylvian, Transinsular Approach for Insular Cavernous Angiomas*, Neurosurgery 53: 1299-1304, 2003

Ishikawa M, Sekizuka E, **Krischek B**, Sure U, Becker R, Bertalanffy H: *Role of Nitric Oxide in the Regulation of Spinal Arteriolar Tone*, Neurosurgery 50: 371-377, 2002.

Stendel R, **Krischek B**, Pietilä TA: *Biodegradable Implants in Neurosurgery*, Acta Neurochirurgica 143: 237-243, 2001.

Schenk JF, Berg G, Mörsdorf S, Stefan B, Kroll H, **Krischek B**, Pindur G, Schieffer H, Wenzel E: *Heparin-induced Thrombocytopenia: a Critical Risk/Benefit Analysis of Patients in Intensive Care treated with R-Hirudin*, Clinical and Applied Thrombosis and Hemostasis 6:151-156, 2000.

Sandvoss G, Erdlenbruch W, **Krischek B**: *Phenprocoumon from a Neurosurgical Perspective*, Seminars in Thrombosis and Hemostasis, 25: 73-77, 1999.

Mörsdorf S, Erdlenbruch W, Taborski U, Schenk JF, Erdlenbruch K, Novotny-Reichert G, **Krischek B**, Wenzel E: *Training of Patients for Self-Management of Oral Anticoagulant Therapy: Standards, Patient Suitability, and Clinical Aspects*, Seminars in Thrombosis and Hemostasis 25: 109-115, 1999

Mörsdorf S, Leipnitz G, Pindur G, Schenk JF, Erdlenbruch W, **Krischek B**, Wenzel E: *Improved Therapeutic Safety of Oral Anticoagulant Therapy in Germany: the Saarland Model*, Seminars in Thrombosis and Hemostasis 25: 49-55, 1999

Pindur G, Mörsdorf S, Schenk JF, **Krischek B**, Heinrich W, Wenzel E: The Overdosed Patient and Bleedings with Oral Anticoagulation, Seminars in Thrombosis and Hemostasis, 25: 85-88, 1999

Wenzel T, Mörsdorf S, Sibitz I, Schenk JF, Griengl H, Erdlenbruch W, Heinrich W, **Krischek B**, Birner P, Harenberg J: *Dimensions of Quality of Life and Self-monitoring Therapy with Oral Anticoagulants--Still Research or Everyday Practice?* Seminars in Thrombosis and Hemostasis 25: 117-121, 1999

Pirotte B, **Krischek B**, Levivier M, Bolyn S, Brucher JM, Brotchi J: *Diagnostic and Microsurgical Presentation of Intracranial Angiolipomas. Case Report and Review of the Literature*, Journal of Neurosurgery 88: 129-132, 1998.

#### Book Chapters:

Roder C, **Krischek B**: Genetics of Moyamoya Angiopathy, in Wanebo J, Khan N (ed), Moyamoya Angiopathy: Diagnosis and Treatment (1<sup>st</sup> edition, New York, Thieme 2013, in press)

Kasuya H, **Krischek B**, Baba M: Anterior Interhemispheric Approach for Anterior Communicating Artery Aneurysms, in Macdonald RL (ed), Neurosurgical Operative Atlas: Vascular Neurosurgery (2nd edition, New York, Thieme 2008, AANS)