

## Prof. Dr. med. Stephan G. Wetzel – List of publications

### Peer reviewed articles:

1. C.M. Hohl, **S. Wetzel**, R.H. Fertel, D.K. Wimsatt, G.P. Brierley, R.A. Altschuld. Hyperthyroid adult rat cardiomyocytes. I. Nucleotid content, beta- and alpha-adrenoceptors, and cAMP production. Am J Physiol. (Cell Physiol) 1989 Nov;257(5 Pt 1):C948-56.
2. **S. Wetzel**, A. Helwig, J. Metzger. Pseudotumoröse Kalzinose bei Niereninsuffizienz. Aktuelle Radiol. 1995 Sep;5(5):323-4.
3. K.W. Stock, **S. Wetzel**, E. Kirsch, G. Bongartz, W. Steinbrich, E.W. Radue. Anatomic evaluation of the circle of Willis: MR angiography versus intraarterial digital subtraction angiography. AJNR Am J Neuroradiol. 1996 Sep;17(8):1495-9.
4. C. Oursin, **S. Wetzel**. Synoviale Chondromatose der Hand. MR-Bildgebung. Rofo. 1996 Oct;165(4):421-3.
5. **S. Wetzel**, E. Kirsch, K.W. Stock, M. Kolbe, A. Kaim, E.W. Radue. Cerebral veins: comparative study of CT venography with intraarterial digital subtraction angiography. AJNR Am J Neuroradiol. 1999 Feb;20(2):249-55.
6. A. Reber, **S. Wetzel**, K. Schnabel, G. Bongartz, F.J. Frei. Effect of combined mouth closure and chin lift on upper airway dimensions during routine magnetic resonance imaging in pediatric patients sedated with propofol. Anesthesiology. 1999 Jun;90(6):1617-23.
7. S. Huber, L. Kappos, P. Fuhr, **S. Wetzel**, A.J. Steck. Combined acute disseminated encephalomyelitis (ADEM) and acute motor axonal neuropathy (AMAN) after vaccination for Hepatitis A and infection with Campylobacter jejuni. J Neurol. 1999 Dec;246(12):1204-6.
8. C. Oursin, **S. Wetzel**, P. Lyrer, H. Baechli, K.W. Stock. Ruptured intracranial dermoid cyst. Journal Neurosurgical Sciences. 1999 43(3):217-20; discussion:220-221.
9. D. Bilecen, E. Seifritz, E.W. Radue, N. Schmid, **S. Wetzel**, R. Probst, K. Scheffler. Cortical reorganization after acute unilateral hearing loss traced by fMRI. Neurology. 2000 Feb 8;54(3):765-7.
10. **S. Wetzel**, D. Bilicen, P. Lyrer, G. Bongartz, E.W. Radue, K. Scheffler. Cerebral dural arteriovenous fistulas: detection by dynamic MR-projection angiography. AJR Am J Roentgenol. 2000 May;174(5):1293-5.

11. E. Seifritz, D. Bilicen, D. Hänggi D, E.W. Radue, **S. Wetzel**, J. Seelig, K. Scheffler. Effect of ethanol on BOLD response to acoustic stimulation: implications for neuropharmacological fMRI. *Psychiatry Res.* 2000 Jul 10;99(1):1-13.
12. K.W. Stock, **S.G. Wetzel**, P.A. Lyrer, E.W. Radü. Quantification of blood flow in the middle cerebral artery with phase-contrast MR imaging. *Eur Radiol.* 2000;10(11):1795-800.
13. **S. Wetzel**, R. Hasselhorst, D. Bilecen, P.A. Lyrer, E. Seifritz, G. Bongartz, E.W. Radue, K. Scheffler. Preliminary experience with dynamic MR-projection angiography in the evaluation of cervicocranial steno-occlusive disease. *Eur Radiol.* 2001;11(2):295-302.
14. **S.G. Wetzel**, V.S. Lee, A.G.S. Tan, O. Heid, S. Cha, G. Johnson, N.M. Rofsky. Real-time interactive duplex MR measurements: application in neurovascular imaging. *AJR Am J Roentgenol.* 2001 Sep;177(3):703-7.
15. W. Wiesner, **S.G. Wetzel**, M.M. Hoshi, U. Witte, W. Steinbrich, L. Kappos. Swallowing abnormalities in multiple sclerosis: correlation between videofluoroscopy and subjective symptoms. *Eur Radiol.* 2002 Apr;12(4):789-92.
16. S. Yang, **S. Wetzel**, M. Law, D. Zagzag, S. Cha. Dynamic contrast-enhanced T2\*-weighted MR imaging of gliomatosis cerebri. *AJNR Am J Neuroradiol.* 2002 Mar;23(3):350-5.
17. **S.G. Wetzel**, G. Johnson, A.G.S. Tan, S. Cha, E.A. Knopp, V.S. Lee, D. Thomasson, N.M. Rofsky. Three-dimensional, T1-weighted gradient-echo imaging of the brain with a volumetric interpolated examination. *AJNR Am J Neuroradiol.* 2002 Jun-Jul;23(6):995-1002.
18. **S.G. Wetzel**, S. Cha, G. Johnson, P. Lee, M. Law, D. Kasow, S. Pierce, X. Xue. Relative cerebral blood volume measurements in intracranial mass lesions: interobserver and intraobserver reproducibility study. *Radiology.* 2002 Sep;224(3):797-803.
19. **S.G. Wetzel**, J.B. Martin, T. Somon, D. Ruefenacht. Painful osteolytic metastasis of the atlas: treatment with percutaneous vertebroplasty. *Spine.* 2002 Nov 15;27(22):E493-5.
20. **S.G. Wetzel**, S. Cha, M. Law, G. Johnson, J. Golfinos, P. Lee, P.K. Nelson. Preoperative assessment of intracranial tumors with perfusion MR and a volumetric interpolated examination: a comparative study with DSA. *AJNR Am J Neuroradiol.* 2002 Nov-Dec;23(10):1767-74.
21. A. Medizadeh, T. Somon, **S. Wetzel**, A. Kelekis, J.B. Martin, R. Stajzel, K.O. Lovblad, D.A. Ruefenacht, J. Delavelle.

Diffusion weighted MR imaging on a low-field open magnet: comparison with findings at 1.5 T in 18 patients with cerebral ischemia  
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22. **S.G. Wetzel**, M. Law, V.S. Lee, S. Cha, G. Johnson, P.K. Nelson.  
Imaging of the intracranial venous system with a contrast-enhanced volumetric interpolated examination.  
Eur Radiol. 2003 May;13(5):1010-8.

23. A.D. Kelekis , J.B. Martin, T. Somon, **S.G. Wetzel**, P.Y. Dietrich, D.A. Ruefenacht.  
Radicular pain after vertebroplasty: compression or irritation of the nerve root? Initial experience with the "Cooling System".  
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24. J.B. Martin, **S.G. Wetzel**, Y. Seium, P.Y. Dietrich, T. Somon, P. Gailloud, M. Payer, A. Kelekis, D. A. Ruefenacht.  
Percutaneous vertebroplasty in metastatic disease: transpedicular access and treatment of lysed pedicles--initial experience.  
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25. Somon T,, Delavelle J, Kelekis A , **Wetzel S**, Mehdizade A, Martin JB, Stajzel R, Lovblad KO, Ruefenacht DA:  
Diffusion weighted MR imaging on a low-field open magnet in stroke : evaluation in a consecutive serie of 60 patients.  
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26. S.T. Engelter, **S. Wetzel**, E.W. Radu, M. Rausch, A.J. Steck, P.A. Lyrer.  
The clinical significance of diffusion-weighted MR imaging in infratentorial strokes.  
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27. K.O. Lövblad, **S.G. Wetzel**, A. Mehdizade, T. Somon, K. Wilhelm, A. Kelekis, M. El-Koussy, S. Perrig, F. Lazeyras, D. Rüfenacht, J. Delavelle.  
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28. A. Mehdizade , K.O. Lovblad, K.E. Wilhelm, T. Somon , **S. G. Wetzel**, A.D. Kelekis, H. Yilmaz, G. Abdo, J.B. Martin, J.M. Viera, D.A. Rüfenacht.  
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29. K.O. Lovblad, J. Delavelle , **S. Wetzel**, A.D. Kelekis , F. Assal , M. Palmesino, G. Gold, H. Yilmaz, D. San Millan Ruiz X, F. Lazeyras, A. Mehdizade A, D.A. Rüfenacht.  
ADC mapping of the aging frontal lobes in mild cognitive impairment.  
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30. G. Johnson, **S.G. Wetzel**, S. Cha, J. Babb, P.S. Tofts.  
Measuring blood volume and vascular transfer constant from dynamic, T(2)\*-weighted contrast-enhanced MRI.  
Magn Reson Med. 2004 May;51(5):961-8.

31. M. Law, D.E. Meltzer, **S.G. Wetzel**, S Yang, E.A. Knopp, J. Golfinos, G. Johnson. Conventional MR imaging with simultaneous measurements of cerebral blood volume and vascular permeability in Ganglioglioma. Magn Reson Imaging. 2004 Jun;22(5):599-606.
32. A. Handa, G. Abdo, H. Yilmaz, **S.G. Wetzel**, , K.O. Loevblad, P. Bijlenga, N De Tribolet, D.A. Rufenacht. Double-lumen balloon microcatheter-assisted occlusion of cerebral vessels with coils: a technical note. Neuroradiology. 2004 Jul;46(7):577-82.
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34. A. Mehdizade, M. Payer, T. Somon, K. Willhelm, A. Kelekis, **S. Wetzel**, M. Palmesino, K.O. Lovblad, D.A. Rufenacht, J.B. Martin. Percutaneous vertebroplasty through a trans-discal access route after lumbar transpedicular instrumentation. Spine J. 2004 Jul-Aug;4(4):475-9.
35. A. Kelekis, K.O. Lovblad, A. Mehdizade, T. Somon, H. Yilmaz, **S.G. Wetzel**, Y. Seium, P.Y. Dietrich, D.A. Rufenacht, J.B. Martin. Pelvic osteoplasty in osteolytic metastases: technical approach under fluoroscopic guidance and early clinical results. J Vasc Interv Radiol. 2005 Jan;16(1):81-8.
36. M. Sollberger, P. Lyrer, T. Baumann, E.W. Radu, A.J. Steck, **S.G. Wetzel**. Isolated bilateral abducent nerve palsy due to a spontaneous left-side dural carotid cavernous fistula Type Barrow C. J Neurol. 2005 Mar;252(3):372-3.
37. S. Meckel, K.O. Loevblad, A. German, D. San Millan Ruiz, J. Delavelle, E.W. Radue, D.A. Rufenacht, **S.G. Wetzel**. Arterialization of cerebral veins on dynamic multi-array helical CT angiography: a possible sign for a dural arteriovenous malformation. AJR Am J Roentgenol. 2005 Apr;184(4):1313-6.
38. C.A. Taschner, E.C. Kirsch, K. Scheffler, **S.G. Wetzel**, J. Schulte-Mönting, L. Kappos, E.W. Radü. Optimizing brain MRI protocols in the follow-up of patients with multiple sclerosis T2-weighted MRI of the brain after the administration of gadopentetate dimeglumine. Magn Reson Imaging. 2005 Apr;23(3):469-74.
39. L.H. Bonati, P.A. Lyrer, **S.G. Wetzel**, A.J. Steck, S.T. Engelter. Diffusion weighted imaging, apparent diffusion coefficient maps and stroke etiology. J Neurol. 2005 Nov;252(11):1387-93.

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41. M. Payer, **S. Wetzel**, A. Kelekis, B. Jenny.  
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42. R.W. Huegeli, S. Schaeren, A.L. Jacob, J.B. Martin, **S.G. Wetzel**.  
Percutaneous cervical vertebroplasty in a multifunctional image-guided therapy suite: hybrid lateral approach to C1 and C4 under CT and fluoroscopic guidance.  
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43. M. Ohta, **S.G. Wetzel**, P. Dantan, C. Bachelet, KO Loevblad, H. Yilmaz, P. Flaud, DA Rufenacht.  
Rheological changes after stenting of a cerebral aneurysm: a finite element modeling approach.  
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44. C.A. Taschner, **S.G. Wetzel**, M. Tolnay, J. Frölich, A. Merlo, E.W. Radü.  
Characteristics of ultrasmall superparamagnetic iron oxides in patients with brain tumors.  
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45. S. Meckel, R. Mekle, C. Taschner, S. Haller, K. Scheffler, E.W. Radue, **S.G. Wetzel**.  
Time-resolved 3D contrast-enhanced MRA with GRAPPA on a 1.5 T system for imaging of craniocervical vascular disease: initial experience.  
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Magn Reson Med. 2006 May;55(5):1093-105.
47. S. Haller, MD.T. Winkler, C. Gobbi, Ph. Lyrer, **S.G. Wetzel**, A.J. Steck.  
Prominent activation of the putamen during essential palatal tremor. An fMRI case study  
AJNR Am J Neuroradiol. 2006 Jun-Jul;27(6):1272-4.
48. R. Hodek-Wuerz, J.B. Martin, K. Wilhelm, A. Kelekis, K. Loevblad, D. Babic, D.A. Rufenacht, **S.G. Wetzel**.  
Percutaneous vertebroplasty: preliminary experiences with rotational acquisitions and 3D reconstructions for therapy control.  
Cardiovasc Intervent Radiol. 2006 Sep-Oct;29(5):862-5.
49. L.H. Bonati, A. Kessel-Schaefer, A.Z. Linka, P. Buser P, **S.G. Wetzel**, E.W. Radue, P.A. Lyrer, S.T. Engelter.  
Diffusion-weighted imaging in stroke attributable to patent foramen ovale: significance of concomitant atrial septum aneurysm.  
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Mapping continuous neuronal activation without ON-OFF paradigm: initial results of BOLD ceiling fMRI.  
Eur J Neurosci. 2006 Nov;24(9):2672-8.
51. **S. Wetzel**, S. Meckel, A. Frydrychowicz, L. Bonati, E.W. Radue, K. Scheffler, J. Hennig, M. Markl.  
In vivo assessment and visualization of intracranial arterial hemodynamics with flow-sensitized 4D MR imaging at 3T.  
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52. S. Meckel, M. Maier, D. San-Millan Ruiz, H. Yilmaz, K. Scheffler, E.W. Radue, **S.G. Wetzel**.  
MR angiography of dural arteriovenous fistulas: diagnosis and follow-up after treatment using a time-resolved 3D contrast-enhanced technique.  
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57. R. Sutter, S. Renaud, L. Bonati, P. Lyrer, M. Tolnay, **S. Wetzel**, S. Rüegg, S. Engelter.  
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58. L. Bonati, **S.G. Wetzel**, J. Gandjour, R.W. Baumgartner, P.A. Lyrer, S.T. Engelter.  
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In-vivo visualization and analysis of 3D hemodynamics in cerebral aneurysms with flow-sensitized 4D MR imaging at 3T.  
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65. F. Santini, **S.G. Wetzel**, J. Bock, M. Markl, K. Scheffler.  
Time-resolved three-dimensional (3D) phase-contrast (PC) balanced steady-state free precession (bSSFP).  
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67. M. Herdener, F. Esposito, F. di Salle, C. Boller, C.C. Hilti, B. Habermeyer, K. Scheffler, **S.G. Wetzel**, E. Seifritz, K. Cattapan-Ludewig  
Musical training induces functional plasticity in human hippocampus.  
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68. L.H. Bonati, **S.G. Wetzel**, A. Kessel-Schaefer, P. Buser, P.A. Lyrer, S.T. Engelter.  
Diffusion-weighted imaging findings differ between stroke attributable to spontaneous cervical artery dissection and patent foramen ovale.  
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Bilateral VI nerve injury.  
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70. S. Meckel, C. Reisinger, J. Bremerich, D. Damm, M. Wolbers, S. Engelter, K. Scheffler, **S.G. Wetzel**.  
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71. International Carotid Stenting Study investigators, J. Ederle, J. Dobson, R.L. Featherstone, L.H. Bonati, H.B. van der Worp, G.J. de Borst, T.H. Lo, P. Gaines, P.J. Dorman, S. Macdonald, P.A. Lyrer, J.M. Hendriks, C. McCollum, P.J. Nederkoorn, M.M. Brown.  
Carotid artery stenting compared with endarterectomy in patients with symptomatic carotid stenosis (International Carotid Stenting Study): an interim analysis of a randomised controlled trial. (**S.G. Wetzel** responsible neuroradiologist for Basel/CH)  
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72. L.H. Bonati, L.M. Jongen, S. Haller, H.Z. Flach, J. Dobson, P.J. Nederkoorn, S. Macdonald, P.A. Gaines, A. Waaijer, P. Stierli, H.R. Jäger, P.A. Lyrer, L.J. Kappelle, **S.G. Wetzel**, A. van der Lugt, W.P. Mali, M.M. Brown, H.B. van der Worp, S.T. Engelter; ICSS-MRI study group.  
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79. M. Garcia, M. Gloor, O. Bieri, **S.G. Wetzel**, E.W. Radue, K. Scheffler.  
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Muscular involvement assessed by MRI correlates to motor function measurement values in oculopharyngeal muscular dystrophy.  
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Dampening of Blood-Flow Pulsatility along the Carotid Siphon: Does Form Follow Function?  
AJNR Am J Neuroradiol. 2011 Jun-Jul;32(6):1107-12.
83. Fluri F, Jax F, Amort M, **Wetzel SG**, Lyrer PA, Katan M, Hatz F, Engelter ST.  
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