

Assoc. Prof. PD. Dr. Gregor KASPRIAN, MBA

PERSONAL INFORMATION

Name: Assoc. Prof. PD. Dr. Gregor
KASPRIAN

Address: Department of Biomedical Imaging
and Image-guided Therapy, Medical
University of Vienna, Austria

ORCID: <https://orcid.org/0000-0003-3858-3347>

HIGHER EDUCATION

06/15 – now	Associate Professor at the Medical University of Vienna, Department of Biomedical Imaging and Image-guided Therapy, Venia docendi in Radiology
11/13 – now	Facharzt für Radiologie (Consultant in Radiology), Department of Neuro- and Musculoskeletal Radiology, Medical University of Vienna, Austria
03/18 – 12/20	Master of Business Administration; „Health Care Management“, Medical University of Vienna, Master thesis: “Developing research projects, while conducting them - Intervention research of a third-party-funded medical research project”
01/18 – 06/18	Leadership Curriculum, Medical University of Vienna
06/07- 11/13	Residency, Department of Radiology, Medical University of Vienna
03/06-05/07	Residency, Department of Neurology, Medical University of Vienna
09/98-02/06	Dr. med. - Medical School, Medical University of Vienna
07/04-07/05	Teaching Assistant, Center of Anatomy and Cell Biology

APPOINTMENTS/ POSITIONS

06/18 – present	“leitender Oberarzt” – assistant medical director for Functional Brain Imaging and Fetal MR Imaging at the Department of Radiology, Div. of Neuro- and Musculoskeletal Radiology.
11/16-present	Secretary of the Austrian Society of Neuroradiology (http://www.oegnr.at/)
06/14 – present	Scientific Committee Member of the European Society of Magnetic Resonance in Neuropediatrics (ESMRN)
01/13 – 08/13	Postdoctoral Associate at Baylor College of Medicine and Texas Childrens Hospital, Singleton Department of Pediatric Radiology and Ob/Gyn, Houston, Texas
06/07 – 01/13	Resident, Department of Radiology: General Radiology, Neuro- and Musculoskeletal Radiology, Interventional Radiology
01/08 – present	Lecturer, PhD Program Clinical Neurosciences, Medical University of Vienna
04/06-06/07	Resident, Department of Neurology, Medical University of Vienna

07/04 and 07/02

Clerkship at the Department of Emergency Medicine, Emory University, Atlanta, Georgia, USA and Research Visit at the Epilepsy Surgery Center at Bethel, Bielefeld, Germany

FELLOWSHIPS AND AWARDS

01/16 Best Habilitation of the Year 2016, vwf Habilitationspreis, Vienna, Austria

06/11 Best Scientific Presentation, American Society of Head and Neck Radiology, Co- and presenting author of the Derek Harwood Nash Award of the American Society of Neuroradiology, Seattle, USA

10/10 Trainee Research Award, Radiological Society of Northern America, Chicago, USA

03/08 and 03/11 Best Scientific Paper Award, European Congress of Radiology, Vienna, Austria

09/10 Best Scientific Poster Award, European Society of Head and Neck Radiology 2010, Vienna, Austria

11/05 "Schering Prize", Austrian Society of Radiology

SELECTED MEMBERSHIPS

Secretary of the Austrian Society of Neuroradiology, Austrian Society of Radiology, European Society of Radiology, Austrian Society of Neurology, Austrian Society of Neuroradiology

SELECTED THIRD PARTY FUNDS/ONGOING PROJECTS

2018- ongoing Principal Investigator, Epigenetic Control of Brain Wiring in FASD, Austrian Science fund project in collaboration with ANR France. Nr. I3925-B27 (370000 Euros)

2012- 2014 Principal Investigator, FETALMORPHO - . *Jubiläumsfondprojekt, ÖNB (90000 Euros)*

2014 - now *Does prenatal structural brain asymmetry predict later language localization and abilities?*, KLIF, FWF Projekt, Co-Investigator

SELECTED COLLABORATION PARTNERS

- Prof. Georg Langs, Connectome Research, Computerized Imaging, Medical University of Vienna
- Baylor College of Medicine, Houston Texas, Fetal Imaging in Brain malformations
- Dr. Xia Wei, Wuhan Children's Hospital, Wuhan, China

PROFESSIONAL AND SCHOLARLY ACTIVITIES

- **Coeditor Section Neuroradiology (ongoing since 2016):** European Radiology (IF 4.7), Neuroradiology Section; Frontiers of Neurology (IF 3.5), Associate Editor
- **Reviewer for:** Nature, Brain, European Radiology, Neurology, NeuroImage, American Journal of Obstetrics and Gynecology, Frontiers of Neuroscience, International Journal of Developmental Neuroscience, Early Human Development, American Journal of Neuroradiology; Neuropediatrics (in total 10 top journals, 6 standard journals – not listed)

PUBLICATION SUMMARY

134 peer reviewed publications/proceedings, 5 books/book chapters, cited 2204 times (without self-citations), h-index 24

1.3.2021



PUBLICATIONS (last 5 years)

1. Cardoso Diogo, M., Glatter, S., Prayer, D., Gruber, G.M., Bettelheim, D., Weber, M., Dovjak, G., Seidl, R., Kasprian, G., Improved prognostication in isolated callosal agenesis: fetal magnetic resonance imaging-based scoring system. *Ultrasound in Obstetrics & Gynecology* 2020.
2. Foesleitner, O., Sigl, B., Schmidbauer, V., Nenning, K.H., Patariaia, E., Bartha-Doering, L., Baumgartner, C., Pirker, S., Moser, D., Schwarz, M., Hainfellner, J.A., Czech, T., Dorfer, C., Langs, G., Prayer, D., Bonelli, S., Kasprian, G., 2020. Language network reorganization before and after temporal lobe epilepsy surgery. *J Neurosurg*, 1-9.
3. Dovjak, G.O., Schmidbauer, V., Brugger, P.C., Gruber, G.M., Diogo, M., Glatter, S., Weber, M., Ulm, B., Prayer, D., Kasprian, G.J., Normal human brainstem development in vivo: a quantitative fetal MRI study. *Ultrasound Obstet Gynecol.* 2020
4. Dovjak GO, Diogo MC, Brugger PC, Gruber GM, Weber M, Glatter S, Seidl R, Bettelheim D, Prayer D, Kasprian GJ. Quantitative fetal MRI assessment of cystic posterior fossa malformations. *Ultrasound Obstet Gynecol.* 2019
5. Foesleitner, O., Nenning, K.H., Bartha-Doering, L., Baumgartner, C., Patariaia, E., Moser, D., Schwarz, M., Schmidbauer, V., Hainfellner, J.A., Czech, T., Dorfer, C., Langs, G., Prayer, D., Bonelli, S., **Kasprian, G.**, 2020. Lesion-Specific Language Network Alterations in Temporal Lobe Epilepsy. *AJNR. American journal of neuroradiology* 41, 147-154.
6. Foesleitner, O., Sigl, B., Schmidbauer, V., Nenning, K.H., Patariaia, E., Bartha-Doering, L., Baumgartner, C., Pirker, S., Moser, D., Schwarz, M., Hainfellner, J.A., Czech, T., Dorfer, C., Langs, G., Prayer, D., Bonelli, S., **Kasprian, G.**, 2020. Language network reorganization before and after temporal lobe epilepsy surgery. *J Neurosurg*, 1-9.
7. V. Schmidbauer, G. Geisl, M. Diogo, M. Weber, K. Goeral, K. Klebermass-Schrehof, A. Berger, D. Prayer and **G. Kasprian**. SyMRI detects delayed myelination in preterm neonates. *Eur Radiol* 2019. DOI 10.1007/s00330-019-06325-2.
8. Schmidbauer, V., Geisl, G., Cardoso Diogo, M., Jengojan, S., Perepelov, V., Weber, M., Goeral, K., Lindenlaub, F., Klebermass-Schrehof, K., Berger, A., Prayer, D., **Kasprian, G.**, 2020. Validity of SyMRI for Assessment of the Neonatal Brain. *Clin Neuroradiol.*
9. Cardoso Diogo, M., Glatter, S., Prayer, D., Gruber, G.M., Bettelheim, D., Weber, M., Dovjak, G., Seidl, R., **Kasprian, G.**, 2020. Improved prognostication in isolated callosal agenesis: fetal magnetic resonance imaging-based scoring system. *Ultrasound Obstet Gynecol.*
10. Dovjak, G.O., Diogo, M.C., Brugger, P.C., Gruber, G.M., Weber, M., Glatter, S., Seidl, R., Bettelheim, D., Prayer, D., **Kasprian, G.J.**, 2020. Quantitative fetal magnetic resonance imaging assessment of cystic posterior fossa malformations. *Ultrasound Obstet Gynecol* 56, 78-85.
11. Dovjak, G.O., Schmidbauer, V., Brugger, P.C., Gruber, G.M., Diogo, M., Glatter, S., Weber, M., Ulm, B., Prayer, D., **Kasprian, G.J.**, 2020. Normal human brainstem development in vivo: a quantitative fetal MRI study. *Ultrasound Obstet Gynecol.*
12. Reisinger, D., Gojo, J., **Kasprian, G.**, Haberler, C., Peyrl, A., Azizi, A.A., Mayr, L., Chocholous, M., Kool, M., Czech, T., Slavic, I., 2020. Predisposition of Wingless Subgroup Medulloblastoma for Primary Tumor Hemorrhage. *Neurosurgery* 86, 478-484.

13. F. Prayer, M. Metzelder, W. Krois, P. C. Brugger, G. M. Gruber, M. Weber, A. Scharrer, A. Rokitansky, G. Langs, D. Prayer, E. Unger and **G. Kasprian**. Three-dimensional reconstruction of defects in congenital diaphragmatic hernia: a fetal MRI study. *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology* 2019; 53: 816-826. DOI 10.1002/uog.20296.
14. M. C. Diogo, D. Prayer, G. M. Gruber, P. C. Brugger, F. Stuhr, M. Weber, D. Bettelheim and **G. Kasprian**. Echo-planar FLAIR Sequence Improves Subplate Visualization in Fetal MRI of the Brain. *Radiology* 2019; 292: 159-169. DOI 10.1148/radiol.2019181976.
15. J. W. Song, G. M. Gruber, J. M. Patsch, R. Seidl, D. Prayer and **G. Kasprian**. How accurate are prenatal tractography results? A postnatal in vivo follow-up study using diffusion tensor imaging. *Pediatric Radiology* 2018; 48: 486-498. DOI 10.1007/s00247-017-3982-y.
16. A. L. Schuler, L. Bartha-Doering, A. Jakab, E. Schwartz, R. Seidl, P. Kienast, S. Lackner, G. Langs, D. Prayer and **G. Kasprian**. Tracing the structural origins of atypical language representation: consequences of prenatal mirror-imaged brain asymmetries in a dizygotic twin couple. *Brain structure & function* 2018; 223: 3757-3767. DOI 10.1007/s00429-018-1717-y.
17. Krenn, M., Wagner, M., Hotzy, C., Graf, E., Weber, S., Brunet, T., Lorenz-Depiereux, B., **Kasprian, G.**, Aull-Watschinger, S., Patarala, E., Stogmann, E., Zimprich, A., Strom, T.M., Meitinger, T., Zimprich, F., 2020. Diagnostic exome sequencing in non-acquired focal epilepsies highlights a major role of GATOR1 complex genes. *J Med Genet* 57, 624-633.
18. Bartha-Doering, L., Novak, A., Kollndorfer, K., Schuler, A.L., **Kasprian, G.**, Langs, G., Schwartz, E., Fischmeister, F.P.S., Prayer, D., Seidl, R., 2019. Atypical language representation is unfavorable for language abilities following childhood stroke. *Eur J Paediatr Neurol* 23, 102-116.
19. A. Hold, M. S. Mayr-Riedler, T. Rath, I. Pona, P. Nierlich, J. Breitenseher and **G. Kasprian**. 3-Tesla MRI-assisted detection of compression points in ulnar neuropathy at the elbow in correlation with intraoperative findings. *J Plast Reconstr Aesthet Surg* 2018; 71: 1004-1009. DOI 10.1016/j.bjps.2018.02.014.
20. O. Foesleitner, K. H. Nennung, T. Traub-Weidinger, M. Feucht, S. Bonelli, T. Czech, C. Dorfer, D. Prayer and **G. Kasprian**. Assessing Corticospinal Tract Asymmetry in Unilateral Polymicrogyria. *AJNR American journal of neuroradiology* 2018; 39: 1530-1535. DOI 10.3174/ajnr.A5715.
21. R. Woitek, D. Prayer, M. Weber, G. Amann, R. Seidl, D. Bettelheim, V. Schopf, P. C. Brugger, J. Furtner, U. Asenbaum and **G. Kasprian**. Fetal diffusion tensor quantification of brainstem pathology in Chiari II malformation. *Eur Radiol* 2016; 26: 1274-1283. DOI 10.1007/s00330-015-3939-1.
22. C. Mitter, D. Prayer, P. C. Brugger, M. Weber and **G. Kasprian**. In vivo tractography of fetal association fibers. *PLoS One* 2015; 10: e0119536. DOI 10.1371/journal.pone.0119536.
23. **G. J. Kasprian**, M. J. Paldino, A. R. Mehollin-Ray, A. Shetty, J. L. Williams, W. Lee and C. I. Cassady. Prenatal imaging of occipital encephaloceles. *Fetal Diagnosis and Therapy* 2015; 37: 241-248. DOI 10.1159/000366159.
24. S. Jengojan, F. Kovar, J. Breitenseher, M. Weber, D. Prayer and **G. Kasprian**. Acute radial nerve entrapment at the spiral groove: detection by DTI-based neurography. *Eur Radiol* 2015; 25: 1678-1683. DOI 10.1007/s00330-014-3562-6.

25. J. B. Breitensteher, G. Kranz, A. Hold, D. Berzaczy, S. F. Nemeč, T. Sycha, M. Weber, D. Prayer and **G. Kasprian**. MR neurography of ulnar nerve entrapment at the cubital tunnel: a diffusion tensor imaging study. *Eur Radiol* 2015; 25: 1911-1918. DOI 10.1007/s00330-015-3613-7.