Curriculum Vitae



PD Victor Ulrich Schmidbauer, MD, PhD, EDiR

- **Date of Birth:** 17.10.1993
- **Place of Birth:** Oberpullendorf/Austria
- **Citizenship:** Austria
- **E-Mail:** victor.schmidbauer@meduniwien.ac.at

Schooling

- School Leaving Examination (Bundes-Oberstufenrealgymnasium für Studierende der Musik; Neustiftgasse 95-99, 1070 Vienna) (06/2013)

Military Service

- Military Duty (Militärmedizinisches Zentrum Vienna – Van Swieten Kaserne, 1210 Vienna) (2014)

Medical Studies

- Medical University of Vienna *(MD)* (2014-2020)

Doctoral Studies

- Medical University of Vienna – *Clinical Neurosciences (PhD)* (2021-2023)

Master Studies

- Donau-University Krems – *Healthcare Management, MSc (CE)* (since 2026)

Medical Education

- Medical Common Trunk – University Hospital Krems (2020-2021)
- Training in General Medicine – University Hospital Krems (2021)
- Residency at the Department of Biomedical Imaging and Image-guided Therapy – Medical University of Vienna (10/2021-04/2026)

- Successful completion of the board examination of the Austrian Society of Radiology (02/2025)
- Successful completion of the *European Diploma in Radiology (EDiR)* (02/2025)
- *Venia docendi* (post-doctoral lecturing qualification) in “Radiology”

Memberships

- Austrian Society of Neuroradiology (since 03/2021)
- Austrian Society of Radiology (since 11/2021)
- Radiological Society of North America (since 08/2022)
- Austrian Society of Pediatric Radiology (since 01/2023)

Review Activities (for):

- American Journal of Neuroradiology
- European Journal of Pediatrics
- European Radiology
- Neuroradiology

Languages

- German (native language)
- English (fluently)
- French (basic)

Original Research

Papp L, Pötsch N, Grahovac M, Schmidbauer V, Woehrer A, Preusser M, Mitterhauser M, Kiesel B, Wadsak W, Beyer T, Hacker M, Traub-Weidinger T. **Glioma Survival Prediction with Combined Analysis of In Vivo 11C-MET PET Features, Ex Vivo Features, and Patient Features by Supervised Machine Learning.** J Nucl Med. 2018 Jun;59(6):892-899. doi: 10.2967/jnumed.117.202267. Epub 2017 Nov 24. PMID: 29175980.

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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. **Validity of SyMRI for Assessment of the Neonatal Brain.** Clin Neuroradiol. 2021 Jun;31(2):315-323. doi: 10.1007/s00062-020-00894-2. Epub 2020 Mar 11. PMID: 32161995; PMCID: PMC8211598.

Foesleitner O, Sigl B, Schmidbauer V, Nenning KH, Pataraia E, Bartha-Doering L, Baumgartner C, Pirker S, Moser D, Schwarz M, Hainfellner JA, Czech T, Dorfer C, Langs G, Prayer D, Bonelli S, Kasprian G. **Language network reorganization before and after temporal lobe epilepsy surgery.** J Neurosurg. 2020 Jul 3;134(6):1694-1702. doi: 10.3171/2020.4.JNS193401. PMID: 32619977.

Dovjak GO, Schmidbauer V, Brugger PC, Gruber GM, Diogo M, Glatter S, Weber M, Ulm B, Prayer D, Kasprian GJ. **Normal human brainstem development in vivo: a quantitative fetal MRI study.** Ultrasound Obstet Gynecol. 2021 Aug;58(2):254-263. doi: 10.1002/uog.22162. Epub 2021 Jul 6. PMID: 32730667; PMCID: PMC8457244.

Nenning KH, Fösleitner O, Schwartz E, Schwarz M, Schmidbauer V, Geisl G, Widmann C, Pirker S, Baumgartner C, Prayer D, Pataraia E, Bartha-Doering L, Langs G, Kasprian G, Bonelli SB. **The impact of hippocampal impairment on task-positive and task-negative language networks in temporal lobe epilepsy.** Clin Neurophysiol. 2021 Feb;132(2):404-411. doi: 10.1016/j.clinph.2020.10.031. Epub 2020 Dec 3. PMID: 33450563.

Schmidbauer V, Dovjak G, Geisl G, Weber M, Diogo MC, Yildirim MS, Goeral K, Klebermass-Schrehof K, Berger A, Prayer D, Kasprian G. **Impact of Prematurity on the Tissue Properties of the Neonatal Brain Stem: A Quantitative MR Approach.** AJNR Am J Neuroradiol. 2021 Mar;42(3):581-589. doi: 10.3174/ajnr.A6945. Epub 2021 Jan 21. PMID: 33478940; PMCID: PMC7959430.

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Schmidbauer VU, Dovjak GO, Yildirim MS, Mayr-Geisl G, Weber M, Diogo MC, Gruber GM, Prayer F, Milos RI, Stuempflen M, Ulm B, Binder J, Bettelheim D, Kiss H, Prayer D, Kasprian G. **Mapping Human Fetal Brain Maturation In Vivo Using Quantitative MRI.** AJNR Am J Neuroradiol. 2021 Nov;42(11):2086-2093. doi: 10.3174/ajnr.A7286. Epub 2021 Sep 9. PMID: 34503947; PMCID: PMC8583264.

Goeral K, Kasprian G, Hüning BM, Waldhoer T, Fuiko R, Schmidbauer V, Prayer D, Felderhoff-Müser U, Berger A, Olischar M, Klebermass-Schrehof K. **A novel magnetic resonance imaging-based scoring system to predict outcome in neonates born preterm with intraventricular haemorrhage.** Dev Med Child Neurol. 2022 May;64(5):608-617. doi: 10.1111/dmcn.15116. Epub 2021 Nov 28. PMID: 34839534; PMCID: PMC9299734.

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Binder C, Buchmayer J, Thajer A, Giordano V, Schmidbauer V, Harreiter K, Klebermass-Schrehof K, Berger A, Goeral K. **Association between Fat-Free Mass and Brain Size in Extremely Preterm Infants.** Nutrients. 2021 Nov 24;13(12):4205. doi: 10.3390/nu13124205. PMID: 34959757; PMCID: PMC8708955.

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Dovjak GO, Hausmaninger G, Zalewski T, Schmidbauer V, Weber M, Worda C, Seidl-Mlczoch E, Berger-Kulemann V, Prayer D, Kasprian GJ, Ulm B. **Brainstem and cerebellar volumes at magnetic resonance imaging are smaller in fetuses with congenital heart disease.** Am J Obstet Gynecol. 2022 Aug;227(2):282.e1-282.e15. doi: 10.1016/j.ajog.2022.03.030. Epub 2022 Mar 16. PMID: 35305961.

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D, Kasprian G. **Synthetic MR Imaging-Based WM Signal Suppression Identifies Neonatal Brainstem Pathways in Vivo.** AJNR Am J Neuroradiol. 2022 Dec;43(12):1817-1823. doi: 10.3174/ajnr.A7710. Epub 2022 Nov 17. PMID: 36396336.

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Steiner M, Schwarz H, Kasprian G, Rittenschober-Boehm J, Schmidbauer V, Fuiko R, Olischar M, Klebermass-Schrehof K, Berger A, Goeral K. **Brain Biometry Reveals Impaired Brain Growth in Preterm Neonates with Intraventricular Hemorrhage.** Neonatology. 2023;120(2):225-234. doi: 10.1159/000528981. Epub 2023 Feb 20. PMID: 36805535.

Stuempflen M, Schwartz E, Diogo MC, Glatter S, Pfeiler B, Kienast P, Taymourtash A, Schmidbauer VU, Bartha-Doering L, Krampl-Bettelheim E, Seidl R, Langs G, Prayer D, Kasprian G. **Fetal MRI based brain atlas analysis detects initial in utero effects of prenatal alcohol exposure.** Cereb Cortex. 2023 Feb 17:bhad005. doi: 10.1093/cercor/bhad005. PMID: 36807411.

Stuempflen M, Taymourtash A, Kienast P, Schmidbauer VU, Schwartz E, Mitter C, Binder J, Prayer D, Kasprian G; collaborators. **The ganglionic eminence: volumetric assessment of transient brain structure utilizing fetal magnetic resonance imaging.** Ultrasound Obstet Gynecol. 2023 Apr 26. doi: 10.1002/uog.26232. PMID: 37099530.

Marik W, Cardoso PL, Springer E, Bogner W, Preusser M, Widhalm G, Hangel G, Hainfellner JA, Rausch I, Weber M, Schmidbauer V, Traub-Weidinger T, Trattnig S. **Evaluation of Gliomas with Magnetic Resonance Fingerprinting with PET Correlation-A Comparative Study.** Cancers (Basel). 2023 May 12;15(10):2740. doi: 10.3390/cancers15102740. PMID: 37345077.

Bsteh G, Marik W, Macher S, Schmidbauer V, Krajnc N, Pruckner P, Mitsch C, Novak K, Wöber C, Pemp B. **Impact of rater experience and referral question on detecting MRI features of idiopathic intracranial hypertension.** Eur J Neurol. 2023 Jul 21. doi: 10.1111/ene.15986. PMID: 37475659.

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Schmidbauer VU (corresponding author), Yildirim MS, Dovjak GO, Goeral K, Buchmayer J, Weber M, Kienast P, Diogo MC, Prayer F, Stuempflen M, Kittinger J, Malik J, Nowak NM, Klebermass-Schrehof K, Fuiko R, Berger A, Prayer D, Kasprian G, Giordano V. **Quantitative Magnetic Resonance Imaging for Neurodevelopmental Outcome Prediction in Neonates Born Extremely Premature-An Exploratory Study.** Clin Neuroradiol. 2024 Jan 30. doi: 10.1007/s00062-023-01378-9. PMID: 38289377.

Yildirim MS, Schmidbauer VU, Micko A, Lechner L, Weber M, Furtner J, Wolfsberger S, Malla Houech IV, Cho A, Dovjak G, Kasprian G, Prayer D, Marik W. **Multi-Dynamic-Multi-**

Echo-based MRI for the Pre-Surgical Determination of Sellar Tumor Consistency: a Quantitative Approach for Predicting Lesion Resectability. Clin Neuroradiol. 2024 Apr 19. doi: 10.1007/s00062-024-01407-1. PMID: 38639770.

Kienast P, Schmidbauer V (corresponding author), Yildirim MS, Seeliger S, Stuempflen M, Elis J, Giordano V, Fuiko R, Olischar M, Vierlinger K, Noehammer C, Berger A, Prayer D, Kasprian G, Goeral K. **Neurodevelopmental outcome in preterm infants with intraventricular hemorrhages: the potential of quantitative brainstem MRI.** Cereb Cortex. 2024 May 2;34(5):bhae189. doi: 10.1093/cercor/bhae189. PMID: 38715405.

Schmidbauer VU (corresponding author), Houech IM, Malik J, Watzenboeck ML, Mittermaier R, Kienast P, Haberl C, Pogledic I, Mitter C, Dovjak GO, Krauskopf A, Prayer F, Stuempflen M, Dorittke T, Gantner NA, Binder J, Bettelheim D, Kiss H, Haberler C, Gelpi E, Prayer D, Kasprian G. **Synthetic MRI and MR Fingerprinting-Derived Relaxometry of Antenatal Human Brainstem Myelination: A Postmortem-Based Quantitative Imaging Study.** AJNR Am J Neuroradiol. 2024 Jul 11. doi: 10.3174/ajnr.A8337. PMID: 38991765.

Schwarz M, Schmidbauer VU (corresponding author), Malik J, Nowak NM, Kienast P, Watzenboeck M, Stuempflen M, Schwarz C, Kittinger J, Bettelheim D, Haberl C, Binder J, Kiss H, Reiberger T, Prayer D, Kasprian G. **Intrauterine blood transfusion causes dose- and time-dependent signal alterations in the liver and the spleen on fetal magnetic resonance imaging.** Eur Radiol. 2024 Dec 11. doi: 10.1007/s00330-024-11228-y. PMID: 39663265.

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Koenig FRM, Raudner M, Wollner G, Juras V, Szomolanyi P, Vetchy V, Leitner J, Schmidbauer V, Trattnig S. **Long-Term Impact of Intralesional Bony Overgrowth on**

Opposing Cartilage Integrity: Five-Year Results Following Cartilage Repair. Cartilage. 2025 Apr 28:19476035251335008. doi: 10.1177/19476035251335008. PMID: 40289954.

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Yildirim MS, Nenning KH, Schmidbauer VU, Stepponat R, Berger M, Koren J, Baumgartner C, Pataraia E, Dorfer C, Rössler K, Bonelli S, Kasprian G. **The functional and structural language-associated brain network in patients with temporal lobe epilepsy and atypical language organization.** Epilepsy Behav. 2025 Jul 29;171:110629. doi: 10.1016/j.yebeh.2025.110629. PMID: 40737957.

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affects placental degradation-a retrospective fetal MRI study. Eur Radiol. 2026 May 6. doi: 10.1007/s00330-026-12597-2. PMID: 42091661.

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Ortner M, Hacker C, Kaider A, Stanek J, Russ D, Unger E, Schmidbauer V, Oberoi GC. **Feasibility and placement accuracy of a sensor-guided intraosseous device with an automated stop in a small-bone rat cadaver model: a single-arm pilot study.** Resusc Plus. 2026 Sep 21;32:101500. doi: 10.1016/j.resplu.2026.101500. PMID: 42871938; PMCID: PMC13659475.

Review Articles

Schmidbauer, V., Bonelli, S. **Recent developments in cognitive fMRI for temporal lobe epilepsy.** Z. Epileptol. 33, 30–36 (2020). https://doi.org/10.1007/s10309-019-00303-w

Case Reports

Schwarz M, Schwarz C, Mossig E, Lampichler K, Schmidbauer V, Hofmann A, Langenberger H, Lagler H, Auer H, Gschwantler M. **Isolated peritoneal involvement as a primary manifestation of cystic echinococcosis.** Lancet Infect Dis. 2022 Dec;22(12):1769. doi: 10.1016/S1473-3099(22)00509-6. PMID: 36435190.

Schwarz C, Schwarz M, Schmidbauer V, Kainberger F, Milos RI, Langenberger H, Gessl I, Funk G, Gschwantler M. **Diffuse idiopathic skeletal hyperostosis as a cause for dysphagia in a patient with ankylosing spondylitis.** Wien Klin Wochenschr. 2023 May 5. doi: 10.1007/s00508-023-02205-4. PMID: 37145247.

Schwarz C, Schmidbauer V, Lagler H, Stremitzer S, Kaczirek K, Langenberger H, Chromy D, Auer H, Gschwantler M. **Diaphragmatic perforation as a result of cystic echinococcosis in an HIV positive migrant.** J Travel Med. 2023 Aug 11:taad108. doi: 10.1093/jtm/taad108. PMID: 37565821.

Other Publications

Kasprian G, Schmidbauer V. **Magnetic Resonance Fingerprinting – The Future of Quantitative MR Neuroimaging.** Magnetom Flash. RSNA Edition – Issue 79 (02/2021).

Published Abstracts

> 20

Oral Presentations

19

Invited Lectures

17

Grants

Prediction of neonatal outcome using advanced MR imaging (Verein Unser_Kind): 13.438,00€

Awards and Scholarships

- Best Research Presentation at the 26th Meeting of the Austrian Society of Neuroradiology (2018)
- Merit Scholarship of the Medical University of Vienna (2017/2018)
- Merit Scholarship of the Medical University of Vienna (2018/2019)
- Arthur Schüller Award of the Austrian Society of Neuroradiology (2020)
- Merit Scholarship of the Medical University of Vienna (2019/2020)
- Starter Grant 2021 of the *Comprehensive Center for Pediatrics* – Medical University of Vienna
- Publication Award of the Austrian Society of Pediatric Radiology (2023)
- R3 Imaging Award of the Austrian, German, and Swiss Societies of Radiology (2024)

Vienna, 17th October 2026

Victor Schmidbauer

