Curriculum vitae

Clemens Spielvogel, PhD
Junior Group Leader
Division of Nuclear Medicine
Department of Biomedical Imaging and Image-guided Therapy
Medical University of Vienna, Vienna, Austria



Visiting Postdoctoral Researcher | Erwin Schrödinger Fellow
Artificial Intelligence in Medicine Research Center
Department of Medicine
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Academic Experience and Milestones

2026-2027	**Visiting Postdoctoral Fellow** at the Artificial Intelligence in Medicine Research Center (Department of Medicine) at *Cedars-Sinai Medical Center* (Los Angeles, USA), hosted by Prof. Piotr Slomka and **Principal Investigator** of the FWF Erwin Schroedinger Project J4998
Since 2026	**Junior Group Leader** (Spielvogel Lab, institutionally funded) at the *Medical University of Vienna* (Division of Nuclear Medicine, Dept. for Biomed. Imaging and Image-guided Therapy)
2026	**Habilitation** (Data Science in Medical Imaging) at the *Medical University of Vienna*
2023-2026	**Postdoctoral Research Scientist** (institutionally funded) at the *Medical University of Vienna* (Division of Nuclear Medicine, Dept. for Biomed. Imaging and Image-guided Therapy) as independent researcher at the Department of Prof. Marcus Hacker
2022-2023	**Professional program** completion: Medical Statistics, *Stanford University*
2019-2023	**Doctoral Researcher and Doctoral Studies (PhD)** at the Christian Doppler Laboratory for Applied Metabolomics of Prof. Alexander Haug (Dept. for Biomed. Imaging and Image-guided Therapy) and Prof. Lukas Kenner (Dept. for Pathology) at the *Medical University of Vienna*; Thesis title "Molecular disease characterization by application of artificial intelligence in nuclear medicine", graded 1 (best grade)
2019-2022	**Lecturer** at the *University of Applied Sciences Technikum Vienna*, thesis supervisions and teaching courses related to artificial intelligence, machine learning and computer vision for the Bachelor Program 'Computer Science'
2018-2018	**Scientific Machine Learning Engineer** in the group of Dr. Laszlo Papp (Center for Medical Physics and Biomedical Engineering) at the *Medical University of Vienna*
2016-2018	**Master of Science (MSc)** in Bioinformatics at the *University of Applied Sciences Campus Vienna*
2016-2016	**Scientific Software Consultant** at the *University of Graz*
2013-2016	**Bachelor of Science (BSc)** in Biomedicine and Biotechnology at the *University of Veterinary Medicine Vienna*

Research Interest and Important Results

Primary focus: Clinical applications of artificial intelligence in cardiovascular imaging, cardio-oncology and oncology

Results: Artificial intelligence-driven quantitative molecular imaging and multi-omics integration to improve diagnosis, risk stratification, and treatment monitoring across oncology and cardiology; Establishment of clinically validated AI biomarkers for cardiac amyloidosis, immune-related adverse events, and cancer phenotyping, enabling reproducible, prognostically relevant imaging beyond visual assessment; Development and successful multicenter validation of an artificial intelligence-based opportunistic screening approach for cardiac amyloidosis

Honors and Awards

2026	**Barry L. Zaret Young Investigator Award** Finalist Stipend
2026	**Rückenwind Funding Bonus** of the Austrian Science Fund (FWF)
2025	**Researcher of the Month** of the Medical University of Vienna
2025	**General Sponsorship Award for Nuclear Medicine** of the Austrian Society for Nuclear Medicine and Theranostics (OGNT)
2024	**Dora-Brücke Teleky Award** of the Austrian College of Physicians and the Medical University of Vienna Alumni Club
2024	Society of Nuclear Medicine and Molecular Imaging (SNMMI) **Young Investigator Award**
2024	Society of Nuclear Medicine and Molecular Imaging (SNMMI) **2nd place Best Clinical Abstract**
2024	**Best Abstract Award** (Digital Cardiology) at the Annual Meeting of the Austrian Society for Cardiology
2024	**Carl Apstein Award** at the Cardiovascular Research Days
2023	**Research Platform for Medical Imaging** (formerly Medical Imaging Cluster) **Award** at the Annual Meeting of the Research Platform Medical Imaging (formerly Medical Imaging Cluster)

Invited Presentations

2026	**European Association of Nuclear Medicine (EANM) Congress** (Vienna, Austria): "Medical Algorithmic Auditing of a Cardiac Amyloidosis AI System for the Nuclear Medicine Clinic"
2025	**AttRISE 2025** (Stockholm, Sweden): "Artificial Intelligence for Improving the Clinical Management of Patients with Transthyretin Cardiac Amyloidosis"
2025	**European School of Multimodality Imaging & Therapy (ESMIT) Course**: Explainable Artificial Intelligence
2025	**Austrian Society for Nuclear Medicine and Theranostics (OGNT) Annual Congress** (Bad Ischl, Austria): "Artificial Intelligence in Diagnostic Medicine"
2025	**Pfizer Symposium at the OGNT Annual Congress** (Bad Ischl, Austria): "Challenges and Opportunities for Artificial Intelligence in the Nuclear Medicine-guided Diagnosis of Cardiac Amyloidosis"
2023	**Austrian Society of Medical Physicists (OGMP) Annual Congress** (Salzburg, Austria): "Artificial Intelligence in Nuclear Medicine"
2023	**Biomedical Summer School Vienna** (Vienna, Austria): "Cardiac Amyloidosis Screening using Artificial Intelligence in Medical Imaging"

2021 **Postgraduate COMULIS Training School for Radiomics and AI in Molecular Imaging** (Vienna, Austria): "Machine Learning Platforms and Model Validation"

2019 **North German Society of Nuclear Medicine Annual Meeting** (Hamburg, Germany): "The role of Radiomics in Nuclear Medicine"

Teaching

Since 2021 **Supervision and co-supervision** in the **PhD** Programme Medical Imaging N094 and the Doctoral Programme Applied Medical Science N790 (Medical University of Vienna); successful completions:

- (Ongoing:) Peyman Sharifian, MSc: Application of Artificial Intelligence for Cardiovascular Imaging
- Dr. sci. med. Kilian Kluge: 'Comparative Analyses of Plasma-Derived DNA Biomarkers and [^{68}Ga]Ga PSMA-11 PET/CT Findings in Prostate Cancer Patients and Their Translational Implications'
- Jing Ning, MD, PhD: 'Integrative insights into cancer: multimodal imaging and omics profiling'

Since 2019 **Supervision** of 2 **Master**'s theses, 4 **Bachelor**'s theses, and various **internships** of students at the Medical University of Vienna, Vienna University of Technology (TU Wien), Veterinary Medical University of Vienna and University of Applied Sciences Technikum Vienna

Since 2025 **Course** "Interdisciplinary Research Project" (lecture series and practical seminar) at the Vienna University of Technology (TU Wien)

Since 2024 Ongoing **professional development** in academic teaching and supervision, including Moodle-supported instruction, supervision of diploma and PhD students, legal aspects of supervision, and mentoring and motivational strategies

Since 2023 Four **Courses** 'Thesis Seminar - Computational Nuclear Medicine' and 'Journal Club - Computational Nuclear Medicine', 'Thesis Seminar - Molecular Imaging', 'Journal Club – Molecular Imaging' at the Medical University of Vienna (PhD Programme N094)

2019-2022 Three **Courses** 'Computer Vision', 'Introduction to Artificial Intelligence', and 'Machine Learning I' at the University of Applied Sciences Technikum Vienna (Bachelor's program 'Computer Science')

Other Achievements

Since 2026 **Editor** at PLOS Digital Health

Since 2025 **Associate Editor** at the European Journal of Nuclear Medicine and Molecular Imaging (EJNMMI) Research

Since 2025 **Committee member** of the Austrian Society for Nuclear Medicine's (OGNT) committee for hybrid imaging

Since 2023 **Chairing sessions** at scientific conferences, including the European Nuclear Medicine Association (EANM) conference and the European Molecular Imaging Meeting (EMIM)

Since 2020 **Reviewing** for various scientific journals, including European Heart Journal, npj Digital Medicine, Journal of Nuclear Medicine, European Journal of Nuclear Medicine and Molecular Imaging, The EANM Journal, Molecular Cancer, Cell Reports Medicine, Med, Clinical and Translational Imaging, Journal of Cancer Research and Clinical Oncology, Physica Medica, EJNMMI Research, PLOS Digital Health, and The International Journal of Cardiovascular Imaging

2025	**Organization of conferences:** including acquisition of sponsoring and lead of scientific committee of the symposium on "Multimodal Diagnosis of Transthyretin Cardiac Amyloidosis" (Sponsored by Pfizer and Hermes Medical Solutions)
2022-2023	**Professional program** completion: Medical Statistics, Stanford University
2021-2022	**Professional program** completion: Data Science, certified by IBM
2020-2025	**Co-authoring** of the European Nuclear Medicine (EANM) Guide 2020 and updated version in 2025

Society Memberships

- Society of Nuclear Medicine and Molecular Imaging (SNMMI)
- European Association of Cardiovascular Imaging (EACVI)
- European Association of Nuclear Medicine (EANM)
- American Association of Nuclear Cardiology (ASNC)

Funded Projects

As sole Principal Investigator: **FWF Erwin Schroedinger Fellowship Grant**: "AI-enabled SPECT/CT imaging for cardiac amyloidosis" (Abroad phase 2026-2027; Return phase 2027-2028) Provided by: Austrian Science Fund (FWF) (Competitive peer-reviewed)	169 780 EUR (~200 000 USD)
As sole Principal Investigator: **Contract Agreement**: "Markers for the detection of cardiac amyloidosis" (2025) Provided by: Pfizer (Industry non-peer-reviewed)	15 000 EUR (~18 000 USD)
As Sub-Investigator: **Christian Doppler Laboratory (CDL)** for Applied Metabolomics (2019-2023) Provided by: Christian Doppler Society (Competitive peer-reviewed)	160 000 EUR (~190 000 USD)

Book Chapters

1.	Transcriptomics in Atherosclerosis: Insights into gene regulatory networks in vascular pathology (10.1016/B978-0-443-33064-3.00017-7)	2026
2.	European Nuclear Medicine Guide - update 2025: Artificial Intelligence, Machine-, Deep Learning and Radiomics (10.52717/TDVK9247)	2025
3.	Advanced Imaging and Therapy in Neuro-Oncology: Incremental Role of Radiomics and Artificial Intelligence (10.1007/978-3-031-59341-3_10)	2024
4.	European Nuclear Medicine Guide 2020: Artificial Intelligence, Machine-, Deep Learning and Radiomics (10.52717/XYLY1587)	2020

Conference publications and abstracts

As first author: >14

As other author: >41

For details, please visit *https://scholar.google.com/citations?user=clemens_spielvogel*

Publications

*First or last authorships are **underlined*** and listed first.

- **Conference** publications and abstracts as **first author**: >15
- **Conference** publications and abstracts as **other author**: >45
- **Editorials**: 1
- **Preprints**: >5
- **Peer-reviewed** articles as **first or last author**: 10
- **Peer-reviewed** articles; **total**: 50 (49 Original articles; 1 Review article)

Peer-reviewed articles:

1. Screening for patients at risk for cardiac amyloidosis via electronic health records: A multicenter machine learning development and validation study; **CP Spielvogel**, D Kersting, D Haberl, M Autherith, L Hauptmann, J Yu , J Hennenberg, K Kluge, K Moon, S Settelmeier, J Ning, K Kumpf, M Köfler, F Hofer, K Mascherbauer, J Mascherbauer, A Kammerlander, T Traub-Weidinger, G Kasprian, T Rassaf, J Kleesiek, K Herrmann, P Bartko, S Hengstenberg, M Hacker, R Calabretta and C Nitsche; PLOS Digital Health — 2026
2. Impact of disease-modifying therapy on [99mTc]Tc-DPD SPECT/CT markers in transthyretin cardiac amyloidosis enabled by artificial intelligence; **CP Spielvogel**, M Köfler, Z Jiang, J Ning, J Yu, D Haberl, C Kronberger, M Poledniczek, M Schmid, D Kersting, N Ermolaev, R Badr Eslam, M Auer-Grumbach, C Binder, F Duca, C Nitsche, J Kastner, J Bergler-Klein, AA Kammerlander, C Hengstenberg, M Hacker, R Calabretta and R Rettl; European Journal of Nuclear Medicine and Molecular Imaging — 2025
3. Generative artificial intelligence enables medical image generation and improves generalization of machine learning models in data-constrained environments; D Haberl, J Ning, K Kluge, K Kumpf, J Yu, Z Jiang, CS Constantino, A Monaci, M Starace, AR Haug, R Calabretta, L Camoni, F Bertagna, K Mascherbauer, F Hofer, D Albano, R Sciagra, FPM Oliveira, D Costa, C Nitsche, M Hacker and **CP Spielvogel**; European Journal of Nuclear Medicine and Molecular Imaging — 2025
4. A machine learning approach to identify patients at risk for long-term consequences after pulmonary embolism; S Nopp*, **CP Spielvogel***, B Bikdeli, A Alberich-Conesa, L Hernandez-Blasco, L Peris, R Otero, D Jimenez, M Monreal, C Ay and the RIETE Investigators; Scientific Reports — 2025
5. Enhancing Blood–Brain Barrier Penetration Prediction by Machine Learning-Based Integration of Novel and Existing, In Silico and Experimental Molecular Parameters from a Standardized Database; **CP Spielvogel***, N Schindler*, C Schröder, SL Stellnberger, W Wadsak, M Mitterhauser, L Papp, V Pichler and C Vraka; Journal of Chemical Information and Modeling — 2025
6. Artificial intelligence-enabled opportunistic identification of immune checkpoint inhibitor-related adverse events using [18F]FDG PET/CT; **CP Spielvogel**, A Lazarevic, L Zisser, D Haberl, C Eseroglou, L Beer, M Hacker and R Calabretta; European Journal of Nuclear Medicine and Molecular Imaging — 2025
7. Enhanced diagnostic and prognostic assessment of cardiac amyloidosis using combined 11C-PIB PET/CT and 99mTc-DPD scintigraph; H Zhihui*, **CP Spielvogel***, S Xue, R Calabretta, Z Jiang, J Yu, K Kluge, D Haberl, C Nitsche, S Grünert, M Hacker and X Li; European Journal of Nuclear Medicine and Molecular Imaging — 2025
8. A novel assessment of whole-mount Gleason grading in prostate cancer to identify candidates for radical prostatectomy: a machine learning-based multiomics study; J Ning*, **CP Spielvogel***, D Haberl, K Trachtova, S — 2024

Stoiber, S Rasul, V Bystry, G Wasinger, P Baltzer, E Gurbhofer, G Timelthaler, M Schlederer, L Papp, H Schachner, T Helbuch, M Hartenbach, B Grubmüller, SF Shariat, M Hacker, A Haug and L Kenner; Theranostics

9. Diagnosis and prognosis of abnormal cardiac scintigraphy uptake at risk for cardiac amyloidosis using artificial intelligence: An international, multi-center, cross-tracer development and validation study; **CP Spielvogel***, D Haberl*, K Mascherbauer, J Ning, K Kluge, T Traub-Weidinger, RH Davies, I Pierce, K Patel, T Nakuz, A Göllner, D Amereller, M Starace, A Monaci, M Weber, X Li, AR Haug, R Calabretta, X Ma, M Zhao, J Mascherbauer, A Kammerlander, C Hengstenberg, LJ Menezes, R Sciagra, TA Treibel, M Hacker and C Nitsche; The Lancet Digital Health — 2024
10. Preoperative detection of extraprostatic tumor extension in patients with primary prostate cancer utilizing [68Ga]Ga-PSMA-11 PET/MRI; **CP Spielvogel***, J Ning*, K Kluge, D Haberl, G Wasinger, J Yu, H Einspieler, L Papp, B Grubmüller, SF Shariat, PAT Baltzer, P Clauser, M Hartenbach, L Kenner, M Hacker, AR Haug* and S Rasul*; Insights into Imaging — 2024
11. Radiogenomic markers enable risk stratification and inference of mutational pathway states in head and neck cancer; **CP Spielvogel**, S Stoiber, L Papp, D Krajnc, M Grahovac, E Gurnhofer, K Trachtova, V Bystry, A Leisser, B Jank, J Schnoell, L Kadletz, G Heiduschka, T Beyer, M Hacker, L Kenner* and A R Haug*; European Journal of Nuclear Medicine and Molecular Imaging — 2023
12. Prediction of cancer-associated thrombosis by machine learning: results from the Vienna Cancer and Thrombosis Study; T Hoberstorfer, **CP Spielvogel**, […] and C Ay; ESMO Open — 2026
13. Early Timepoint 99mTc-DPD Whole Body Scintigraphy and Quantitative SPECT-CT Imaging for Diagnosis of Cardiac ATTR Amyloidosis; S Settelmeier, […], **CP Spielvogel**, […] and D Kersting; EJNMMI Research — 2026
14. Semi-quantitative evaluation of early phase 99mTc-DPD scintigraphy in patients with suspected cardiac amyloidosis; L Kessler, […], **CP Spielvogel**, […] and D Kersting; Annals of Nuclear Medicine — 2026
15. [18F]FDG PET/CT multiomics identifies Hedgehog-driven HPV-negative head and neck squamous cell carcinoma; S Stoiber, D Pölöske, **CP Spielvogel**, […] and L Kenner; Molecular Cancer — 2026
16. Intraprostatic PSMA PET/MRI parameters and clinical markers for ISUP prediction and postoperative biochemical recurrence in patients with primary prostate cancer; H Einspieler, […], **CP Spielvogel**, […] and S Rasul; European Journal of Nuclear Medicine and Molecular Imaging — 2026
17. Quantitative Assessment of Myocardial Infarction Scarring using Optical Coherence Tomography: towards data-driven Catheter Therapy Guidance; A Krause, G Giardina, **CP Spielvogel**, D Haberl, L Papp and RD Walton; IEEE Transactions on Biomedical Engineering — 2026
18. Positron Emission Tomography/Computed Tomography Imaging with [18F]PARPi for Precision Guidance of Poly ADP-ribose Polymerase Inhibitor Therapy in Homologous Recombination Repair Mutated and Nonmutated Metastatic Castration-resistant Prostate Cancer; H Ofnera, H Einspielerc, M Ozenilc, **CP Spielvogel**, I Kristiana Langratec, K Bammingerc, MR Hasslera, PAT Baltzerd, SF Shariata, M Hacker, Sazan Rasul and Gero Kramer; European Urology Oncology — 2026
19. Feasibility of [68Ga]Ga-FAPI PET Molecular Imaging in Atherosclerosis Compared with [18F]FDG in Oncological Patients; R Calabretta, E Atli, BK Geist, D Muin, L Zisser, **CP Spielvogel**, C Falkenbach, E Kretschmer-Chott, Stefan Schmitl, J Bergler-Klein, X Li, P Binder and M Hacker; Diagnostics — 2025

20. Additive diagnostic value of thoracic SPECT/CT imaging in perugini grade 1 patients who underwent bone scintigraphy; M Poledniczek, Rene Rettl, C Kronberger, M Schmid, N Ermolaev, F Duca, C Nitsche, C Binder, LC Ligios, M Eslami, P Binder, **CP Spielvogel**, RB Eslam, D Beitzke, J Kastner, J Bergler-Klein, AA Kammerlander, C Hengstenberg, M Hacker and R Calabretta; European Journal of Nuclear Medicine and Molecular Imaging 2025
21. Thyroid hormone receptor beta signaling is a targetable driver of prostate cancer growth; Fesiuk A, D Pölöske, E Araujo, G Frere, TB Wright, G Tin, YS Raouf, OO Olaoye, JS Park, N Blavet, B Tichy, M Schlederer, S Högler, M Wolf, C Philippe, O Aksoy, A Varady, A Medaglia-Mata, M Varenicja, B Szabo, T Weiss, G Wasinger, T Redmer, HA Neubauer, M Susani, **CP Spielvogel**, J Ning, Maik Dahlhoff, M Schepelmann, RD Kennedy, R Moriggl, G Brown, J Persson, C Gerner, V Bystry, O Holloczki, DM Heery, PT Gunning, O Merkel, Brigitte Hantusch and L Kenner; Molecular Cancer 2025
22. Impact of Regularization in Optimizing Distance-Encoding Biomorphic-Informational Neural Networks for Small Nuclear Medicine Datasets; B Ecsedi, A Boukhari, **CP Spielvogel**, D Haberl, Z Ritter, RA Bundschuh, C Lapa, M Hacker, M Hatt and L Papp; EANM Innovation 2025
23. Spatial imaging features derived from SUVmax location in resectable NSCLC are associated with tumor aggressiveness; Z Jiang, **CP Spielvogel**, D Haberl, J Yu, M Krisch, S Szakall, P Molnar, J Fillinger, L Horvath, F Renyi-Vamos, C Aigner, B Dome, C Lang, Z Megyesfalvi, L Kenner and M Hacker; European Journal of Nuclear Medicine and Molecular Imaging 2025
24. Using 18F-FDG PET/CT-derived body composition features to predict lymphovascular invasion in non-small cell lung cancer; Z Jiang, D Haberl, **CP Spielvogel**, S Szakall, P Molnar, J Yu, V Lungu, J Fillinger, F Renyi-Vamos, C Aigner, B Dome, C Lang, L Kenner, Z Megyesfalvi and M Hacker; European Journal of Nuclear Medicine and Molecular Imaging 2025
25. Does PARP1 up-regulation correlate with PSMA expression in patients with metastatic castration-resistant prostate cancer studied with [F]PARPi and [Ga]PSMA PET/CT?; H Einspieler*, H Ofner*, M Ozenil, **CP Spielvogel**, IK Langrate, MR Hassler, L Nics, K Bamminger, PAT Baltzer, SF Shariat, M Hacker, G Kramer and S Rasul; European Journal of Nuclear Medicine and Molecular Imaging 2025
26. Comparison of conventional and radiomics-based analysis of myocardial infarction using multimodal non-linear optical microscopy; G Giardina, L Papp, A Krause, J Marchant, N Pallares-Lupon, K Kulkarni, **CP Spielvogel**, D Haberl, X Li, W Drexler, RD Walton, A Unterhuber and M Andreana; Scientific Reports 2025
27. Multimodal Optical Imaging Combined with Radiomic Analysis for Fibrotic Cardiac Tissue Investigation; A Krause, G Giardina, L Papp, D Haberl, **CP Spielvogel**, RD Walton, J Marchant, N Pallares-Lupon, K Kulkarni, X Li, DL Vasquez, J Popp, IW Schie, W Drexler, M Andreana and A Unterhuber; Analytical Chemistry 2025
28. Enhanced vascular inflammation in patients with advanced prostate cancer receiving hormone therapy; H Einspieler*, D Muin*, IK Langrate, S Schmitl, **CP Spielvogel**, BJ Fueger, X Li, G Kramer, SF Shariat, M Hacker and S Rasul; European Journal of Nuclear Medicine and Molecular Imaging 2025
29. Clinician-driven automated data preprocessing in nuclear medicine AI environments; D Krajnc, **CP Spielvogel**, B Ecsedi, Z Ritter, H Alizadeh, M Hacker and L Papp; European Journal of Nuclear Medicine and Molecular Imaging 2025
30. Imaging and outcome correlates of ctDNA methylation markers in prostate cancer: a comparative, cross-sectional [^{68}Ga]Ga-PSMA-11 PET/CT study; K Kluge, V Lotz, H Einspieler, D Haberl, **CP Spielvogel**, D 2025

Amereller, G Kramer, B Grubmüller, S Shariat, AR Haug, M Hacker, L Kenner and G Egger; Clinical Epigenetics

31. Systemic Metabolic and Volumetric Assessment via Whole-Body [^{18}F]FDG-PET/CT: Pancreas Size Predicts Cachexia in Head and Neck Squamous Cell Carcinoma; J Yu, **CP Spielvogel**, D Haberl, Z Jiang, Ö Özer, S Pusitz, B Geist, M Beyerlein, I Tibu, E Yildiz, SA Kandathil, T Buschhorn, J Schnoell, K Kumpf, YT Chen, T Wu, Z Zhang, M Hacker and C Vraka; Cancers 2024
32. Multicenter PET Image Harmonization using Generative Adversarial Networks; D Haberl, **CP Spielvogel**, Z Jiang, F Orlhac, D Iommi, I Carrio, I Buvat, A Haug, and L Papp; European Journal of Nuclear Medicine and Molecular Imaging 2024
33. Comparison of discovery rates and prognostic utility of [68Ga]Ga-PSMA-11 PET/CT and circulating tumor DNA in prostate cancer - a cross-sectional study; K Kluge, H Einspieler, D Haberl, **CP Spielvogel**, D Amereller, G Egger, G Kramer, B Grubmüller, S Shariat, M Hacker, L Kenner and A Haug. European Journal of Nuclear Medicine and Molecular Imaging 2024
34. Examining the Relationship and Prognostic Significance of Cell-Free DNA Levels and the PSMA-Positive Tumor Volume in Men with Prostate Cancer: A Retrospective-Prospective [68Ga]Ga-PSMA-11 PET/CT Study; K Kluge, H Einspieler, D Haberl, **CP Spielvogel**, S Stoiber, C Vraka, L Papp, S Wunsch, G Egger, G Kramer, B Grubmüller, S Shariat, M Hacker, L Kenner and A Haug; Journal of Nuclear Medicine 2024
35. Assessment of PSMA expression of healthy organs in different stages of prostate cancer using [68Ga]Ga-PSMA-11-PET examinations; H Einspieler, K Kluge, D Haberl, K Schatz, L Nics, S Schmitl, B K Geist, **CP Spielvogel**, B Grubmüller, PAT Baltzer, G Kramer, SF Shariat, M Hacker, and S Rasul. Cancers 2023
36. Mitochondrial polymorphism m3017C>T of SHLP6 relates to heterothermy; S V Emser, **CP Spielvogel**, E Millesi, R Steinborn; Frontiers in Physiology 2023
37. Error mitigation enables PET radiomic cancer characterization on quantum computers; S Moradi, **CP Spielvogel**, D Krajnc, C Brandner, S Hillmich, R Wille, T Traub-Weidinger, X Li, M Hacker, W Drexler, L Papp; European Journal of Nuclear Medicine and Molecular Imaging 2023
38. DEBI-NN: Distance-encoding biomorphic-informational neural networks for minimizing the number of trainable parameters; L Papp, D Haberl, B Ecsedi, **CP Spielvogel**, D Krajnc, M Grahovac, S Moradi, Wolfgang Drexler; Neural Networks 2023
39. Machine learning predictive performance evaluation of conventional and fuzzy radiomics in clinical cancer imaging cohorts; M Grahovac, **CP Spielvogel** D Krajnc, B Ecsedi, T Traub-Weidinger, S Rasul, K Kluge, M Zhao, X Li, M Hacker, A Haug and L Papp; European Journal of Nuclear Medicine and Molecular Imaging 2023
40. Sex-specific radiomic features of L-[S-methyl-11C] methionine PET in patients with newly-diagnosed gliomas in relation to IDH1 predictability; L Papp, S Rasul, **CP Spielvogel**, D Krajnc, N Poetsch, A Woehrer, EM Patronas, B Ecsedi, J Furtner, M Mitterhauser, IF Rausch, G Widhalm, T Beyer, M Hacker and T Traub-Weidinger; Frontiers in Oncology 2022
41. Automated data preparation for in vivo tumor characterization with machine learning; D Krajnc, **CP Spielvogel**, M Grahovac, B Ecsedi, S Rasul, N Poetsch, T Traub-Weidinger, AR Haug, Z Ritter, H Alizadeh, M Hacker, T Beyer, and L Papp; Frontiers in Oncology 2022

42. Multi-lesion radiomics of PET/CT for non-invasive survival stratification and histologic tumor risk profiling in patients with lung adenocarcinoma; M Zhao, K Kluge, L Papp, M Grahovac, S Yang, C Jiang, D Krajnc, **CP Spielvogel**, B Ecsedi, A Haug, S Wang, M Hacker, W Zhang, and X Li; European Radiology 2022
43. Clinical data classification with noisy intermediate scale quantum computers; S Moradi, C Brandner, **CP Spielvogel**, D Krajnc, S Hillmich, R Wille, W Drexler and L Papp; Scientific Reports 2022
44. Bleeding risk assessment in end-stage kidney disease: validation of existing risk scores and evaluation of a machine learning-based approach; S Nopp, **CP Spielvogel**, S Schmaldienst, R Klauser-Braun, M Lorenz, B Bauer, I Pabinger MD Saemann, O Königsbrügge, and C Ay; Thrombosis and Haemostasis 2021
45. Toward Quantitative in vivo Label-Free Tracking of Lipid Distribution in a Zebrafish Cancer Model; M Andreana, C Sturtzel, **CP Spielvogel**, L Papp, R Leitgeb, W Drexler, M Distel and A Unterhuber; Frontiers in Cell and Developmental Biology 2021
46. Morpho-Molecular Metabolic Analysis and Classification of Human Pituitary Gland and Adenoma Biopsies Based on Multimodal Optical Imaging; G Giardina, A Micko, D Bovenkamp, A Krause, F Placzek, L Papp, D Krajnc, **CP Spielvogel**, M Winklehner, Romana Höftberger, F Vila, M Adreana, R Leitgeb, W Drexler, S Wolfsberger and A Unterhuber; Cancers 2021
47. Supervised machine learning enables non-invasive lesion characterization in primary prostate cancer with [Ga]Ga-PSMA-11 PET/MRI; L Papp, **CP Spielvogel**, B Grubmüller, M Grahovac, D Krajnc, B Ecsedi, R AM Sareshgi, D Mohamad, M Hamboeck, I Rausch, M Mitterhauser, W Wadsak, A R Haug, L Kenner, P Mazal, M Susani, S Hartenbach, P Baltzer, TH Helbich, G Kramer, SF Shariat, T Beyer, M Hartenbach and M Hacker; European Journal of Nuclear Medicine and Molecular Imaging 2021
48. Breast Tumor Characterization Using [18F]FDG-PET/CT Imaging Combined with Data Preprocessing and Radiomics; D Krajnc, L Papp, T S Nakuz, H F Magometschnigg, M Grahovac, **CP Spielvogel**, B Ecsedi, Z Bago-Horvath, A Haug, G Karanikas, T Beyer, M Hacker, TH Helbich and K Pinker; Cancers 2021
49. Transcription factors CP2 and YY1 as prognostic markers in head and neck squamous cell carcinoma: analysis of The Cancer Genome Atlas and a second independent cohort; J Schnoell, B J Jank, L Kadletz-Wanke, S Stoiber, **CP Spielvogel**, E Gurnhofer, L Kenner and G Heiduschka; Journal of Cancer Research and Clinical Oncology 2021
50. Personalizing Medicine Through Hybrid Imaging and Medical Big Data Analysis; L Papp, **CP Spielvogel**, I Rausch, M Hacker and T Beyer; Frontiers in Physics 2018