



Sergios Gatidis

Associate Professor of Radiology (Pediatric Radiology)
Radiology - Pediatric Radiology

CLINICAL OFFICE (PRIMARY)

- **LPCH Pediatric Radiology**

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Bio

BIO

Dr. Gatidis completed his medical training at the University of Tuebingen / Germany and received his Diploma in Mathematics from from the Universities of Tuebingen and Hagen / Germany. His research is focused on on methods and applications of machine learning for medical data analysis and translation of AI into clinical practice.

CLINICAL FOCUS

- Pediatric Radiology

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Radiology - Pediatric Radiology
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

PROFESSIONAL EDUCATION

- Residency: Eberhard-Karls-Univ Tubingen/Germany Germany
- Medical Education: Eberhard-Karls-Univ Tubingen/Germany (2011) Germany
- Medical Education, University of Tuebingen / Germany , Medicine (2011)
- Board Certification, Southern German Medical Association , Diagnostic Radiology (2017)
- Residency, University Hospital Tuebingen / Germany , Diagnostic Radiology (2017)

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Louisa Fay, Robert Holland, Jiaming Liu, Fuying Wang, Philipp Wesp

Publications

PUBLICATIONS

- **A longitudinal whole-body CT dataset with manually annotated tumor lesions.** *Scientific data*
Gatidis, S., Peisen, F., Wagner, A., Choudja, P. O., Othman, A., Sanner, A., Grauhan, N., Kim, S., Graafen, D., Müller, L., Loßau, T., Moltz, J. H., Kohlbrandt, et al
2026
- **Pipeline evaluation of a state-of-the-art AI algorithm for detection of focal cortical dysplasia: insights into potential failure sources.** *Brain informatics*
Esmeraldo, M. A., Chambers, S., Kravutske, Y., Reis, E. P., Kasprian, G., Geraldo, A. F., Gatidis, S., Soares, B. P.
2026
- **Merlin: a computed tomography vision-language foundation model and dataset.** *Nature*
Blankemeier, L., Kumar, A., Cohen, J. P., Liu, J., Liu, L., Van Veen, D., Gardezi, S. J., Yu, H., Paschali, M., Chen, Z., Delbrouck, J. B., Reis, E., Holland, et al
2026
- **CNN-based detection of pediatric lymphoma on whole body [18F]FDG-PET/MRI.** *American journal of nuclear medicine and molecular imaging*
Singh, S. B., Loksha, Y. U., Wang, H., Barrow, M. J., von Kruechten, R., Vasylyv, I., Sarrami, A. H., Wu, J. T., Baratto, L., Adams, L. C., Kim, H. G., Wong, J., Liang, et al
2026; 16 (1): 55-62
- **Automated Coregistered Segmentation for Volumetric Analysis of Multiparametric Renal MRI.** *Magnetic resonance in medicine*
Ghoul, A., Liang, C., Loster, I., Umopathy, L., Kühn, B., Martirosian, P., Seith, F., Gatidis, S., Küstner, T.
2026
- **Advancing Automated Lesion Segmentation Toward Clinical Integration in Oncologic PET/CT**
Choudja, P., Dexl, J., Frueh, M., Jeblick, K., Mittermeier, A., Stueber, A., Schachtner, B., Topalis, J., Fabritius, M., Marinov, Z., Rocholl, N., Kohlbrandt, T., Sanner, et al
KARGER.2026: 237
- **Holistic evaluation of large language models for medical tasks with MedHELM.** *Nature medicine*
Bedi, S., Cui, H., Fuentes, M., Unell, A., Wornow, M., Banda, J. M., Kotecha, N., Keyes, T., Mai, Y., Oez, M., Qiu, H., Jain, S., Schettini, et al
2026
- **MIMM-X: Disentangling Spurious Correlations for Medical Image Analysis**
Fay, L., Reguigui, H., Yang, B., Gatidis, S., Kuestner, T.
edited by Puyol-Anton, E., Ferrante, E., Feragen, A., King, A., Cheplygina, Ganz-Benjamin, M., Glocker, B., Petersen, E., Lee, H.
SPRINGER INTERNATIONAL PUBLISHING AG.2026: 94-103
- **Self-supervised Motion-Compensated Reconstruction for Cardiac Cine MRI**
Xu, S., Ghoul, A., Hammernik, K., Kuebler, J., Krumm, P., Lingg, A., Rueckert, D., Gatidis, S., Kuestner, T.
edited by Felsner, L., Kustner, T., Maier, A., Qin, C., Ahmadi, S. A., Kazi, A., Hu
SPRINGER INTERNATIONAL PUBLISHING AG.2026: 97-107
- **AutoPET Challenge on Fully Automated Lesion Segmentation in Oncologic PET/CT Imaging, Part 2: Domain Generalization.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Dexl, J., Gatidis, S., Früh, M., Jeblick, K., Mittermeier, A., Stüber, A. T., Schachtner, B., Topalis, J., Fabritius, M. P., Gu, S., Murugesan, G. K., VanOss, J., Ye, et al
2025
- **Pediatric PET/MRI: Imaging Techniques, Indications, and Clinical Implementation.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Gatidis, S., Ponisio, M. R., Borgwardt, L., Cain, T. M., Francis, P., Hamdi, M., Johnson, G., Kurch, L., Laforest, R., Lim, R., McConathy, J., Mody, T., Nevo, et al
2025; 45 (11): e240105
- **Multi-Frame Image Registration for Automated Ventricular Function Assessment in Single Breath-Hold Cine MRI Using Limited Labels.** *Magnetic resonance in medicine*

- Ghoul, A., Cassal Paulson, P., Lingg, A., Krumm, P., Hammernik, K., Rueckert, D., Gatidis, S., Küstner, T.
2025
- **A Machine Learning System to Automate Body Computed Tomography Protocoling.** *Journal of imaging informatics in medicine*
Shokrollahi, P., Zambrano Chavez, J. M., Lam, J. P., Sharma, A. A., Pal, D., Bahrami, N., Gatidis, S., Chaudhari, A. S., Loening, A. M.
2025
 - **Self-Supervised Feature Learning for Cardiac Cine MR Image Reconstruction** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Xu, S., Fruh, M., Hammernik, K., Lingg, A., Kubler, J., Krumm, P., Rueckert, D., Gatidis, S., Kustner, T.
2025; 44 (9): 3858-3869
 - **External Validation of an Upgraded AI Model for Screening Ileocolic Intussusception Using Pediatric Abdominal Radiographs: Multicenter Retrospective Study.** *Journal of medical Internet research*
Lee, J. H., Kim, P. H., Son, N., Han, K., Kang, Y., Jeong, S., Kim, E., Yoon, H., Gatidis, S., Vasanaawala, S., Yoon, H. M., Shin, H. J.
2025; 27: e72097
 - **Best Practices for Large Language Models in Radiology.** *Radiology*
Bluethgen, C., Van Veen, D., Zakka, C., Link, K. E., Fanous, A. H., Daneshjou, R., Frauenfelder, T., Langlotz, C. P., Gatidis, S., Chaudhari, A.
2025; 315 (1): e240528
 - **Determinants of ascending aortic morphology: Cross-sectional deep learning-based analysis on 25,073 non-contrast-enhanced NAKO MRI studies.** *European heart journal. Cardiovascular Imaging*
Fay, L., Hepp, T., Winkelmann, M. T., Peters, A., Heier, M., Niendorf, T., Pischon, T., Endemann, B., Schulz-Menger, J., Krist, L., Schulze, M. B., Mikolajczyk, R., Wienke, et al
2025
 - **Foundation Models in Radiology: What, How, Why, and Why Not.** *Radiology*
Paschali, M., Chen, Z., Blankemeier, L., Varma, M., Youssef, A., Bluethgen, C., Langlotz, C., Gatidis, S., Chaudhari, A.
2025; 314 (2): e240597
 - **Benchmarking Dependence Measures to Prevent Shortcut Learning in Medical Imaging**
Mueller, S., Fay, L., Koch, L. M., Gatidis, S., Kuestner, T., Berens, P.
edited by Xu, Cui, Z., Rekik, Ouyang, Sun, K.
SPRINGER INTERNATIONAL PUBLISHING AG.2025: 53-62
 - **MedShapeNet - a large-scale dataset of 3D medical shapes for computer vision.** *Biomedizinische Technik. Biomedical engineering*
Li, J., Zhou, Z., Yang, J., Pepe, A., Gsaxner, C., Luijten, G., Qu, C., Zhang, T., Chen, X., Li, W., Wodzinski, M., Friedrich, P., Xie, et al
2024
 - **A dataset and benchmark for hospital course summarization with adapted large language models.** *Journal of the American Medical Informatics Association : JAMIA*
Aali, A., Van Veen, D., Arefeen, Y. I., Hom, J., Bluethgen, C., Reis, E. P., Gatidis, S., Clifford, N., Daws, J., Tehrani, A. S., Kim, J., Chaudhari, A. S.
2024
 - **Optimizing adult-oriented artificial intelligence for pediatric chest radiographs by adjusting operating points.** *Scientific reports*
Shin, H. J., Han, K., Son, N. H., Kim, E. K., Kim, M. J., Gatidis, S., Vasanaawala, S.
2024; 14 (1): 31329
 - **Attention incorporated network for sharing low-rank, image and k-space information during MR image reconstruction to achieve single breath-hold cardiac Cine imaging.** *Computerized medical imaging and graphics : the official journal of the Computerized Medical Imaging Society*
Xu, S., Hammernik, K., Lingg, A., Kübler, J., Krumm, P., Rueckert, D., Gatidis, S., Küstner, T.
2024; 120: 102475
 - **Results from the autoPET challenge on fully automated lesion segmentation in oncologic PET/CT imaging** *NATURE MACHINE INTELLIGENCE*
Gatidis, S., Fruh, M., Fabritius, M. P., Gu, S., Nikolaou, K., La Fougere, C., Ye, J., He, J., Peng, Y., Bi, L., Ma, J., Wang, B., Zhang, et al
2024
 - **Tumour-informed liquid biopsies to monitor advanced melanoma patients under immune checkpoint inhibition** *NATURE COMMUNICATIONS*

Schroeder, C., Gatidis, S., Kelemen, O., Schuetz, L., Bonzheim, I., Muyas, F., Martus, P., Admard, J., Armeanu-Ebinger, S., Gueckel, B., Kuestner, T., Garbe, C., Flatz, et al

2024; 15 (1): 8750

- **Attention-Aware Non-Rigid Image Registration for Accelerated MR Imaging.** *IEEE transactions on medical imaging*
Ghoul, A., Pan, J., Lingg, A., Kubler, J., Krumm, P., Hammernik, K., Rueckert, D., Gatidis, S., Kustner, T.
2024; 43 (8): 3013-3026
- **Merlin: A Vision Language Foundation Model for 3D Computed Tomography.** *Research square*
Blankemeier, L., Cohen, J. P., Kumar, A., Veen, D. V., Gardezi, S., Paschali, M., Chen, Z., Delbrouck, J. B., Reis, E., Truys, C., Bluethgen, C., Jensen, M., Ostmeier, et al
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- **Applications of Artificial Intelligence for Pediatric Cancer Imaging.** *AJR. American journal of roentgenology*
Singh, S. B., Sarrami, A. H., Gatidis, S., Varniab, Z. S., Chaudhari, A., Daldrup-Link, H. E.
2024
- **MedAlign: A Clinician-Generated Dataset for Instruction Following with Electronic Medical Records.** *Proceedings of the ... AAAI Conference on Artificial Intelligence. AAAI Conference on Artificial Intelligence*
Fleming, S. L., Lozano, A., Haberkorn, W. J., Jindal, J. A., Reis, E., Thapa, R., Blankemeier, L., Genkins, J. Z., Steinberg, E., Nayak, A., Patel, B., Chiang, C. C., Callahan, et al
2024; 38 (20): 22021-22030
- **Adapted large language models can outperform medical experts in clinical text summarization.** *Nature medicine*
Van Veen, D., Van Uden, C., Blankemeier, L., Delbrouck, J. B., Aali, A., Bluethgen, C., Pareek, A., Polacin, M., Reis, E. P., Seehofnerová, A., Rohatgi, N., Hosamani, P., Collins, et al
2024
- **Pre-treatment 18F-FDG-PET/CT parameters as biomarkers for progression free survival, best overall response and overall survival in metastatic melanoma patients undergoing first-line immunotherapy** *PLOS ONE*
Peisen, F., Gerken, A., Dahm, I., Nikolaou, K., Eigentler, T., Amaral, T., Moltz, J. H., Othman, A. E., Gatidis, S., Dondi, F.
2024; 19 (1): e0296253
- **MEDALIGN: A Clinician-Generated Dataset for Instruction Following with Electronic Medical Records**
Fleming, S. L., Lozano, A., Haberkorn, W. J., Jindal, J. A., Reis, E., Thapa, R., Blankemeier, L., Genkins, J. Z., Steinberg, E., Nayak, A., Patel, B., Chiang, C., Callahan, et al
edited by Wooldridge, M., Dy, J., Natarajan, S.
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2024: 22021-22030
- **Deep learning-based age estimation from clinical Computed Tomography image data of the thorax and abdomen in the adult population** *PLOS ONE*
Kerber, B., Hepp, T., Kuestner, T., Gatidis, S.
2023; 18 (11): e0292993
- **Clinical Text Summarization: Adapting Large Language Models Can Outperform Human Experts.** *Research square*
Veen, D. V., Uden, C. V., Blankemeier, L., Delbrouck, J. B., Aali, A., Bluethgen, C., Pareek, A., Polacin, M., Reis, E. P., Seehofnerova, A., Rohatgi, N., Hosamani, P., Collins, et al
2023
- **Can Whole-Body Baseline CT Radiomics Add Information to the Prediction of Best Response, Progression-Free Survival, and Overall Survival of Stage IV Melanoma Patients Receiving First-Line Targeted Therapy: A Retrospective Register Study** *DIAGNOSTICS*
Peisen, F., Gerken, A., Hering, A., Dahm, I., Nikolaou, K., Gatidis, S., Eigentler, T. K., Amaral, T., Moltz, J. H., Othman, A. E.
2023; 13 (20)
- **Quantification of intratumoural heterogeneity in mice and patients via machine-learning models trained on PET-MRI data** *NATURE BIOMEDICAL ENGINEERING*
Katiyar, P., Schwenck, J., Frauenfeld, L., Divine, M. R., Agrawal, V., Kohlhofer, U., Gatidis, S., Kontermann, R., Koenigsrainer, A., Quintanilla-Martinez, L., la Fougere, C., Schoelkopf, B., Pichler, et al
2023
- **AI Transformers for Radiation Dose Reduction in Serial Whole-Body PET Scans.** *Radiology. Artificial intelligence*
Wang, Y. J., Qu, L., Sheybani, N. D., Luo, X., Wang, J., Hawk, K. E., Theruvath, A. J., Gatidis, S., Xiao, X., Pribnow, A., Rubin, D., Daldrup-Link, H. E.

2023; 5 (3): e220246

- **Local control and patient reported outcomes after online MR guided stereotactic body radiotherapy of liver metastases** *FRONTIERS IN ONCOLOGY*
Uder, L., Nachbar, M., Butzer, S., Boldt, J., Baumeister, S., Bitzer, M., Koenigsrainer, A., Seufferlein, T., Hoffmann, R., Gatidis, S., Nikolaou, K., Zips, D., Thorwarth, et al
2023; 12: 1095633
- **Low-count whole-body PET/MRI restoration: an evaluation of dose reduction spectrum and five state-of-the-art artificial intelligence models.** *European journal of nuclear medicine and molecular imaging*
Wang, Y. J., Wang, P., Adams, L. C., Sheybani, N. D., Qu, L., Sarrami, A. H., Theruvath, A. J., Gatidis, S., Ho, T., Zhou, Q., Pribnow, A., Thakor, A. S., Rubin, et al
2023
- **Self-supervised contrastive learning with random walks for medical image segmentation with limited annotations** *COMPUTERIZED MEDICAL IMAGING AND GRAPHICS*
Fischer, M., Hepp, T., Gatidis, S., Yang, B.
2023; 104: 102174
- **Avoiding Shortcut-Learning by Mutual Information Minimization in Deep Learning-Based Image Processing** *IEEE ACCESS*
Fay, L., Cobos, E., Yang, B., Gatidis, S., Kuestner, T.
2023; 11: 64070-64086
- **Impact of endorectal filling on interobserver variability of MRI based rectal primary tumor delineation** *CLINICAL AND TRANSLATIONAL RADIATION ONCOLOGY*
Lo Russo, M., Nachbar, M., Barry, A., Bhide, S., Chang, A., Hall, W., Intven, M., Marijnen, C., Peters, F., Minsky, B., Romesser, P. B., Sarkar, R., Tan, et al
2023; 38: 1-5
- **A whole-body FDG-PET/CT Dataset with manually annotated Tumor Lesions.** *Scientific data*
Gatidis, S., Hepp, T., Fruh, M., La Fougere, C., Nikolaou, K., Pfannenber, C., Scholkopf, B., Kustner, T., Cyran, C., Rubin, D.
2022; 9 (1): 601
- **Standardised lesion segmentation for imaging biomarker quantitation: a consensus recommendation from ESR and EORTC** *INSIGHTS INTO IMAGING*
DeSouza, N. M., van Der Lugt, A., Deroose, C. M., Alberich-Bayarri, A., Bidaut, L., Fournier, L., Costaridou, L., Oprea-Lager, D. E., Kotter, E., Smits, M., Mayerhoefer, M. E., Boellaard, R., Caroli, et al
2022; 13 (1): 159
- **Artificial Intelligence in Oncological Hybrid Imaging** *ROFO-FORTSCHRITTE AUF DEM GEBIET DER RONTGENSTRAHLEN UND DER BILDGEBENDEN VERFAHREN*
Feuerecker, B., Heimer, M. M., Geyer, T., Fabritius, M. P., Gu, S., Schachtner, B., Beyer, L., Ricke, J., Gatidis, S., Ingris, M., Cyran, C. C.
2023; 195 (02): 105-114
- **Antibody-Guided Molecular Imaging of Aspergillus Lung Infections in Leukemia Patients** *JOURNAL OF NUCLEAR MEDICINE*
Schwenck, J., Maurer, A., Beziere, N., Fiz, F., Boschetti, F., Geistlich, S., Seyfried, D., Gunzer, M., Reischl, G., Wehrmueller, J., Ehrlichmann, W., Horger, M., Gatidis, et al
2022; 63 (9): 1450-1451
- **Self-supervised learning for automated anatomical tracking in medical image data with minimal human labeling effort** *COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE*
Frueh, M., Kuestner, T., Nachbar, M., Thorwarth, D., Schilling, A., Gatidis, S.
2022; 225: 107085
- **Combination of Whole-Body Baseline CT Radiomics and Clinical Parameters to Predict Response and Survival in a Stage-IV Melanoma Cohort Undergoing Immunotherapy** *CANCERS*
Peisen, F., Hansch, A., Hering, A., Brendlin, A. S., Afat, S., Nikolaou, K., Gatidis, S., Eigentler, T., Amaral, T., Moltz, J. H., Othman, A. E.
2022; 14 (12)
- **1.5T MR Linac for MR-guided stereotactic Radiotherapy of Patients with HCC: first clinical Results**
Uder, L., Boeke, S., Thorwarth, D., Nachbar, M., Butzer, S., Boldt, J., Bitzer, M., Koenigsrainer, A., Seufferlein, T., Hoffmann, R., Gatidis, S., Nikolaou, K., Gani, et al

SPRINGER HEIDELBERG.2022: S134

- **Interobserver Variability in Primary Tumor Contouring of Rectal Cancer to dose-escalated Radiotherapy**
Russo, M. L., Barry, A., Bhide, S., Chang, A., Hall, W., Intven, M., Marijnen, C., Minsky, B., Peters, F., Romesser, P., Sarker, R., Tan, A., Boeke, et al
SPRINGER HEIDELBERG.2022: S32
- **Inter-Observer Variability of MR-based Contouring of Rectal Cancer by MTAs compared to Radiation Oncologists**
Boldt, J., Gani, C., Boeke, S., Wegener, D., Russo, M. L., Nachbar, M., Moennich, D., Zips, D., Thorwarth, D., Gatidis, S., Nikolaou, K., Butzer, S.
SPRINGER HEIDELBERG.2022: S112
- **Prediction of clinical Complete Remission by using functional MR Imaging during Chemoradiation in Rectal Cancer**
Russo, M. L., Nachbar, M., Boeke, S., Zips, D., Thorwarth, D., Gatidis, S., Nikolaou, K., Gani, C.
SPRINGER HEIDELBERG.2022: S58
- **Interobserver Variability in Primary Tumor Contouring of Rectal Cancer to dose-escalated Radiotherapy**
Russo, M. L., Barry, A., Bhide, S., Chang, A., Hall, W., Intven, M., Marijnen, C., Minsky, B., Peters, F., Romesser, P., Sarker, R., Tan, A., Boeke, et al
SPRINGER HEIDELBERG.2022: S32
- **Hybrid Cardiac Magnetic Resonance/Fluorodeoxyglucose Positron Emission Tomography to Differentiate Active From Chronic Cardiac Sarcoidosis** *JACC-CARDIOVASCULAR IMAGING*
Greulich, S., Gatidis, S., Graeni, C., Blankstein, R., Glatthaar, A., Mezger, K., Mueller, K. A. L., Castor, T., Mahrholdt, H., Haentschel, M., Hetzel, J., Dittmann, H., Nikolaou, et al
2022; 15 (3): 445-456
- **Real Time Landmark Detection for Within- and Cross Subject Tracking With Minimal Human Supervision** *IEEE ACCESS*
Frueh, M., Schilling, A., Gatidis, S., Kuestner, T.
2022; 10: 81192-81202
- **LAPNet: Non-Rigid Registration Derived in k-Space for Magnetic Resonance Imaging** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Kuestner, T., Pan, J., Qi, H., Cruz, G., Gilliam, C., Blu, T., Yang, B., Gatidis, S., Botnar, R., Prieto, C.
2021; 40 (12): 3686-3697
- **Detection of lung lesions in breath-hold VIBE and free-breathing Spiral VIBE MRI compared to CT** *INSIGHTS INTO IMAGING*
Olthof, S., Reinert, C., Nikolaou, K., Pfannenberger, C., Gatidis, S., Benkert, T., Kuestner, T., Krumm, P.
2021; 12 (1): 175
- **MRI-Derived Radiomics Features of Hepatic Fat Predict Metabolic States in Individuals without Cardiovascular Disease** *ACADEMIC RADIOLOGY*
Gutmann, D. A. P., Rospleszcz, S., Rathmann, W., Schlett, C. L., Peters, A., Wachinger, C., Gatidis, S., Bamberg, F.
2021; 28: S1-S10
- **Effectiveness of Chest CT in Children: CT Findings in Relation to the Clinical Question** *ROFO-FORTSCHRITTE AUF DEM GEBIET DER RONTGENSTRAHLEN UND DER BILDGEBENDEN VERFAHREN*
Esser, M., Tsiflikas, I., Kraus, M., Hess, S., Gatidis, S., Schaefer, J. F.
2022; 194 (03): 281-290
- **PET/MRI Improves Management of Children with Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Baratto, L., Hawk, K. E., States, L., Qi, J., Gatidis, S., Kiru, L., Daldrup-Link, H. E.
2021; 62 (10): 1334-1340
- **A novel approach for radiotherapy dose escalation in rectal cancer using online MR-guidance and rectal ultrasound gel filling-Rationale and first in human** *RADIOTHERAPY AND ONCOLOGY*
Gani, C., Lo Russo, M., Boeke, S., Wegener, D., Gatidis, S., Butzer, S., Boldt, J., Moennich, D., Thorwarth, D., Nikolaou, K., Zips, D., Nachbar, M.
2021; 164: 37-42
- **Overcoming barriers to data sharing with medical image generation: a comprehensive evaluation** *NPJ DIGITAL MEDICINE*
Schuette, A., Hetzel, J., Gatidis, S., Hepp, T., Dietz, B., Bauer, S., Schwab, P.
2021; 4 (1): 141
- **Targeting extracellular and juxtamembrane FGFR2 mutations in chemotherapy-refractory cholangiocarcinoma** *NPJ PRECISION ONCOLOGY*

- Bitzer, M., Spahn, S., Babaei, S., Horger, M., Singer, S., Schulze-Osthoff, K., Missios, P., Gatidis, S., Nann, D., Mattern, S., Scheble, V., Nikolaou, K., Armeanu-Ebinger, et al
2021; 5 (1): 80
- **Dynamic whole-body F-18-FDG PET/CT in patients with unclear lung tumors - evaluation of multiparametric dynamic imaging in a clinical setting**
Weissinger, M., Atmanspacher, M., Dittmann, H., Gatidis, S., Zender, L., La Fougere, C.
SPRINGER.2021: S479
 - **Weakly supervised segmentation of tumor lesions in PET-CT hybrid imaging** *JOURNAL OF MEDICAL IMAGING*
Frueh, M., Fischer, M., Schilling, A., Gatidis, S., Hepp, T.
2021; 8 (5): 054003
 - **Uncertainty estimation and explainability in deep learning-based age estimation of the human brain: Results from the German National Cohort MRI study** *COMPUTERIZED MEDICAL IMAGING AND GRAPHICS*
Hepp, T., Blum, D., Armanious, K., Schoelkopf, B., Stern, D., Yang, B., Gatidis, S.
2021; 92: 101967
 - **Lymph Node Staging with a Combined Protocol of F-18-FDG PET/MRI and Sentinel Node SPECT/CT: A Prospective Study in Patients with FIGO III Cervical Carcinoma** *JOURNAL OF NUCLEAR MEDICINE*
Weissinger, M., Taran, F., Gatidis, S., Kommoss, S., Nikolaou, K., Sahbai, S., la Fougere, C., Brucker, S., Dittmann, H.
2021; 62 (8): 1062-1067
 - **F-18-Fluoride PET/CT Imaging of Medication-Related Osteonecrosis of the Jaw in Conservative Treatment-A Case Report** *FRONTIERS IN ONCOLOGY*
Reinert, C., Pfannenberg, C., Gatidis, S., la Fougere, C., Nikolaou, K., Hoefert, S.
2021; 11: 700397
 - **Age-Net: An MRI-Based Iterative Framework for Brain Biological Age Estimation** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Armanious, K., Abdulatif, S., Shi, W., Salian, S., Kustner, T., Weiskopf, D., Hepp, T., Gatidis, S., Yang, B.
2021; 40 (7): 1778-1791
 - **1.5 T MR-linac Planning Study comparing two different Rectum-Boost Strategies in Patients with locally advanced Rectal Cancer**
Bonomo, P., Lo Russo, M., Nachbar, M., Boeke, S., Gatidis, S., Zips, D., Thorwarth, D., Gani, C.
SPRINGER HEIDELBERG.2021: S151-S152
 - **Deep Learning-Based Automated Abdominal Organ Segmentation in the UK Biobank and German National Cohort Magnetic Resonance Imaging Studies** *INVESTIGATIVE RADIOLOGY*
Kart, T., Fischer, M., Kuestner, T., Hepp, T., Bamberg, F., Winzeck, S., Glocker, B., Rueckert, D., Gatidis, S.
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