

Personal Data

Status/Function: Doctoral Researcher (PhD Candidate)
Scientific focus: Multiparametric imaging and spectroscopy in metabolic disease and immunooncology
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Education and qualifications

01/2019 – now PhD Doctoral Researcher – Multiparametric MRI and Imaging Science, Eberhard Karls University of Tübingen, DE
Thesis with Prof. Bernd Pichler, Dr. Andreas M. Schmid “Multiparametric imaging of tumor microenvironment and voxel-based analysis in pre-clinical and clinical oncology leading to potential biomarker discovery by positron emission tomography, magnetic resonance imaging and magnetic resonance spectroscopy.”

10/2014 – 9/2017 MSc Master of Science – Medical Biotechnology, Vita-Salute San Raffaele University, IT
Thesis with Prof. Claudio Doglioni, Prof. Maria Picchio: “Hypoxia Imaging with [¹⁸F]FAZA-PET and MR in High-Grade Glioma”

Work Experience

01/2019 - now Doctoral Researcher in Multiparametric MRI and Imaging Science, University Hospital Tübingen, DE

09/2017– 12/2018 Research Assistant at Vita-Salute San Raffaele University, Department of Nuclear Medicine, Milan, IT

07 – 08/2014 Laboratory Assistant at Casa di Cura Villa Verde, Taranto, IT

Teaching Experience

06/2019 – now Bachelor and Master Student Supervision, Eberhard Karls University of Tübingen, DE
Project planning and management, practical lab work and analysis support of bachelor and master students internships and thesis projects

01/2020 – now Teaching, preparation, and correction of the semester final exam about “MR physics” to students from Biochemistry, Medicine, Molecular Medicine, Molecular Immunology and Neuroscience courses from the Eberhard Karls University of Tübingen, DE

Additional Qualifications and Skills

Languages **Italian:** mother tongue; **English:** fluent (C2); **German:** intermediate communication (B1)

Skills PET, MRI and MRS, preclinical **PET user**, preclinical **MR advanced user**, **preclinical and clinical imaging and spectroscopy process and analysis**, animal handling license, **different preclinical surgery and tumor implantation**, systems biology in immunooncology, metabolic disorders, tumor microenvironment, immune system activation research and neuroscience, neurooncology

Additional Social Media Manager of the Werner Siemens Imaging Center X and Instagram accounts

Conferences

Poster at World Molecular Imaging Conference 5 – 9 Sep 2023, Prague, CZ

Invited talk at the “Preclinical Imaging: Effect on the 3R” workshop, Jun 2023, Milan IT

Talk and poster presentation at the **International Society of Magnetic Resonance in Medicine** Conference, June 2023, Toronto, CA

Poster at the 1st International iFIT Conference (“Image-guided and functionally-instructed tumor therapies”), 21 – 23 Mar 2023, Zell am See, AT

Talk and poster at European Molecular Imaging Meeting 14 – 17 Mar 2023, Salzburg, AT

Talk at the Future of **Molecular MR**, July 2022, Pasadena, CA

Talk at the 1st Brainstorming Research Assembly for **Young Neuroscientists 2018 – Genova, IT**

San Raffaele Scientific Retreat 2018 – Baveno, IT

Poster at the Italian **Association of Nuclear Medicine and Molecular Imaging (AIMN)** Conference 2017 – Rimini, IT

Courses

1st Workshop on Emerging Trends in Molecular Imaging, 19-20 Apr 2023, Torino, IT

Workshop on “Social Media Basic & Research Reach” with iFIT Excellence Cluster, Mathis Horlacher, 28-30 Nov 2022, Germany, DE

Masterclass in “International Scientific Communication: Communication, Teaming & Productivity Skills” by iFIT Excellence Cluster, 2021 – 2022, Germany,

Scientific writing workshop “Advanced Scientific Writing” with iFIT Excellence Cluster, Derek Victor-Handley, 14 Jun – 16 Jul 2021

Scientific writing workshop “Fundamentals of Scientific Writing” with iFIT Excellence Cluster, Derek Victor-Handley, 7 Oct – 10 Nov, 2020

Workshop Proton MR Spectroscopy in Neuroradiological Diagnostics 2019 – Universität Kilinikum Tübingen, DE

Workshop Imaging techniques in preclinical, clinical and translational research 2017 - Milan, IT

Professional Memberships

2020 - 2023	European Society of Molecular Imaging
2020 – now	World Molecular Imaging Society
2022 - now	International Society of Magnetic Resonance in Medicine

Awards and Honors

International Society of Magnetic Resonance in Medicine **Travel Grant** to attend the Annual Conference, June 2023, Toronto, CA

International Society of Magnetic Resonance in Medicine Study Group **award**, June 2023, Toronto, CA

European Society of Molecular Imaging Study Group **2nd place**, September 2023, Toronto, CA

Future of Molecular MR **Travel Grant** to attend the meeting at Caltech, July 2023, Pasadena, CA

Research Grant by the iFIT Cluster of Excellence to cover 18 months of the PhD salary, Oct 2021, Tübingen, DE

Research Grant by the Italian National Research Council – 1 year research assistant, Oct 2018, Milan, IT

Publications

1. Castaneda-Vega, S., Beer-Hammer, S., Leiss, V., **Vuozzo, M.** *et al.* Cerebrovascular G_i Proteins Protect Against Brain Hypoperfusion and Collateral Failure in Cerebral Ischemia. *Mol Imaging Biol* **25**, 363–374 (2023).
2. Mapelli, P.; Callea, M.; Fallanca, F.; Castellano, A.; Bailo, M.; Scifo, P.; Bettinardi, V.; Conte, Gian M.; Monterisi, C.; Rancoita, P.; Incerti, E.; **Vuozzo, M.**; Gianolli, L.; Terreni, M.; Anzalone, N.; Picchio, M. 18F-FAZA PET/CT in pretreatment assessment of hypoxic status in high-grade glioma: correlation with hypoxia immunohistochemical biomarkers. *Nuclear Medicine Communications* **42**(7):p 763-771, July 2021.

3. Ghidini, M., **Vuozzo, M.**, Galassi, B., Mapelli, P., Ceccarossi, V., Caccamo, L., Picchio, M., Dondossola, D. (2021). The Role of Positron Emission Tomography/Computed Tomography (PET/CT) for Staging and Disease Response Assessment in Localized and Locally Advanced Pancreatic Cancer. *Cancers*. 13. 4155. 10.3390/cancers13164155.
4. Vega, S.C., Leiss, V., Piekorz, R.P., Calaminus, C., Pexa, K., **Vuozzo, M.**, Schmid, A.M., Devanathan, V., Kesenheimer, C., Pichler, B.J., Beer-Hammer, S., & Nürnberg, B. (2019). Selective protection of murine cerebral Gi/o-proteins from inactivation by parenterally injected pertussis toxin. *Journal of Molecular Medicine*, 98, 97-110.
5. Incerti E, Mapelli P, **Vuozzo M**, Fallanca F, Monterisi C, Bettinardi V, Moresco RM, Gianolli L, Picchio M. Clinical PET imaging of tumour hypoxia in lung cancer. *Clin Transl Imaging*. *Clin Transl Imaging* (2017) 5: 427.
6. Mapelli P, Incerti E, Bettinardi V, Conte GM, Fallanca F, Bailo M, **Vuozzo M**, Callea M, Gianolli L, Picchio M. Hypoxia 18F-FAZA PET/CT imaging in lung cancer and high grade glioma: open issues in clinical application. *Clin Transl Imaging*. 2017; 5 (4): 389–397.