

# Dr. rer. nat. TERESA GERHALTER

Seit 2021                      *Wissenschaftlich Mitarbeiterin* am Experimental and Clinical Research Center von Charité, Universitätsmedizin Berlin und dem Max-Delbrück-Zentrum für Molekulare Medizin, Berlin, Deutschland  
Mentorin: Prof. Dr. Simone Spuler

## Erfahrung und Ausbildung

2019 – 2020                      *Wissenschaftlich Mitarbeiterin*, Department of Radiology, NYU Langone Health, New York, USA  
Mentoren: Prof. Guillaume Madelin and Prof. Ivan Kirov

2018 – 2018                      *Wissenschaftlich Mitarbeiterin*, Institute of Radiology, University Hospital Erlangen, Erlangen, Deutschland  
Mentor: Prof. Armin Nagel

2014 – 2018                      PhD candidate, NMR Laboratory, Association Institute de Myologie, Paris, Frankreich  
Mentoren: Dr. Pierre Carlier and Prof. Simone Spuler

2012 – 2018                      Master of Science in Biomedical Engineering, Technische Universität Graz, Graz, Austria

2014 – 2018                      Bachelor of Science in Biomedical Engineering, Technische Universität Graz, Graz, Austria

## Förderungen und Auszeichnungen

2016 – 2018:                      Cotutelle de Thèse, Université franco-allemande, Saarbrücken, Deutschland

2015 – 2018:                      CIFRE, SIEMENS S.A.S., Division: Healthcare, Frankreich

## Publikationen

- (1) Schüssler S, **Gerhalter T**, Abicht A, Müller-Felber W, Nagel AM, Trollmann R (2020) Rare intronic mutation between Exon 62 and 63 (c.9225-285A>G) of the dystrophin gene associated with atypical BMD phenotype: a case report. *Neuromuscul Dis*, 2020 pre-print. doi: 10.1016/j.nmd.2020.06.003
- (2) **Gerhalter T**, Gast LV, Marty B, Uder M, Carlier PG, Nagel AM (2020) Assessing the variability of  $^{23}\text{Na}$  MRI in skeletal muscle tissue: Reproducibility and repeatability of tissue sodium concentration measurements in the lower leg at 3 T. *NMR Biomed*, 2020 Mar 3: e4279. doi: 10.1002/nbm.4279
- (3) Regensburger AP, Fonteyne LM, Jüngert J, Wagner AL, **Gerhalter T**, Nagel AM, Heiss R, Flenkenthaler F, Qurashi M, Neurath MF, Klymiuk N, Kemter E, Fröhlich T, Uder M, Woelfle J, Rascher W, Trollmann R, Wolf E, Waldner MJ, Knieling F (2019) Detection of collagens by multispectral optoacoustic tomography as an imaging biomarker for Duchenne muscular dystrophy. *Nature Medicine*, 2019 Dec;25(12):1905-1915. doi: 10.1038/s41591-019-0669-y
- (4) **Gerhalter T**, Gast LV, Marty B, Martin J, Trollmann R, Schüssler S, Roemer F, Laun FB, Uder M, Schröder R, Carlier PG, Nagel AM (2019)  $^{23}\text{Na}$  MRI Depicts Early Changes in Ion Homeostasis in Skeletal Muscle Tissue of Patients With Duchenne Muscular Dystrophy. *JMRI*, 2019 Oct;50(4): 1103-1113. doi: 10.1002/jmri.26681
- (5) Higareda-Almaraz JC, Karbiener M, Giroud M, Pauler FM, **Gerhalter T**, Herzig S, Scheideler M (2018) Norepinephrine triggers an immediate-early regulatory network response in primary human white adipocytes. *BMC Genomics*, 2018 Nov 3;19(1):794. doi: 10.1186/s12864-018-5173-0
- (6) Gast LV, **Gerhalter T**, Hensel B, Uder M, Nagel AM (2018) Double Quantum Filtered  $^{23}\text{Na}$  MRI with Magic Angle Excitation of Human Skeletal Muscle in Presence of  $B_0$ - and  $B_1$ -Inhomogeneities. *NMR Biomed*, 2018 Jul; 31(12):e4010. doi: 10.1002/nbm.4010
- (7) **Gerhalter T**, Carlier PG, Marty B. Acute changes in extracellular volume fraction in skeletal muscle monitored by  $^{23}\text{Na}$ -NMR spectroscopy. *Physiol Rep*, 2017 Sep; 5(16):e13380. doi: 10.14814/phy2.13380