

ACADEMIC EMPLOYMENT

- Oct 2021 -
Dec 2022 **Postdoctoral Research Fellow**, Psychiatry, Stanford University
Faculty Sponsor: Prof. Dr. Nolan Williams
- Oct 2021 -
current (tenured) **Faculty**, CMPBME, Medical University of Vienna
Center for Medical Physics and Biomedical Engineering
- Jan 2020 -
Oct 2021 **Postdoctoral Faculty Staff**, CMPBME, Medical University of Vienna
Center for Medical Physics and Biomedical Engineering
Projects include e.g., "Calibrated Brain Stimulation by Concurrent TMS/fMRI Stimulation" (FWF, Austrian Science Fund, P 33180)
- Nov 2014 -
Dec 2019 **Graduate Research Associate**, Medical University of Vienna
PhD student, funded by "Creativity enhancement through advanced brain mapping and stimulation" (CREAM; FP7, ICT-2013.8.1, 612022)

NON-ACADEMIC EMPLOYMENT

- Nov 2005 -
November 2008 **Freelancer**, Advocado market communication, Vienna
- Oct 2007 -
Oct 2008 **Technical Support**, Ergonis Software, Linz

EDUCATION

- Nov 2014 - Dec 2019 **Medical University of Vienna, PhD**
Major: Medical Physics, summa cum laude
Thesis title: "Imaging Transcranial Magnetic Stimulation"
Advisor: Prof. Dr. Christian Windischberger
- Oct 2008 - Oct 2014 **University of Vienna, Mag. rer.nat** (MSc-equivalent)
Major: Psychology (Diploma)
Thesis title: "To Win Or Not To Lose: Neuronal Correlates of Altered Reward Processing Induced by rTMS of the left DLPFC in Smokers"
Advisor: Prof. Dr. Claus Lamm
- Mar 2005 – Jun 2005 Technical University of Vienna
Software and Information Engineering

GRANTS

- submitted **Improved clinical efficacy of TMS through concurrent imaging (I 5655)**
Source of Funding: FWF (Austrian Science Fund), International Project
Role: Principal Investigator
Amount (requested): 477k€
- submitted **Targeting the post COVID-19 syndrome through TMS/fMRI (P 34812)**
Source of Funding: FWF (Austrian Science Fund), Stand-Alone Project
Role: Principal Investigator
Amount (requested): 361k€
- 2021 **Improving presurgical language mapping through concurrent TMS/fMRI**
Source of Funding: ÖAW (Austrian Academy of Sciences)
Role: Co-Author
Amount: 114k€
- 2020 **Zielregionen für Transkranielle Magnetstimulation**
Source of Funding: FFG (Austrian Research Promotion Agency), Talente
Role: Principal Investigator
- 2019 **Research Innovation and Sustainable Pan-European Network in Peripartum Depression Disorder**
Source of Funding: EU, COST Action 18138
Role: Management of collaborative project
- 2019 **Calibrated brain stimulation via concurrent TMS/fMRI (P 6314)**
Source of Funding: FWF (Austrian Science Fund), Stand-Alone Project
Role: Co-Author
Amount: 370k€

HONORS AND AWARDS

- 2022 **Visiting scholarships AI**
Bavaria California Technology Center
- 2022 **Travel Award**
Stanford Bio-X
- 2021 **Merit Abstract Award**
Awarded by the Organization for Human Brain Mapping (OHBM) and selected as conference highlight "Network Target Engagement in the Prefrontal Brain explained by Concurrent TMS/fMRI"
- 2018 **Janssen Special Award**
Life-science-success audience prize "TMS Treatment system that is easy to handle and tailored on patient's needs"

Curriculum Vitae

Mag. Martin Tik, PhD
martin.tik@meduniwien.ac.at

- 2017 **Merit Abstract Award**
Awarded by OHBM, "Connectomic insights into depression and TMS as a treatment option"
- 2015 **Merit Abstract Award**
Awarded by OHBM "Ultrahigh field fMRI insights on insight: Neural correlates of the Aha! moment"
- 2015 **Abstract prize**
Best conference abstract award by Interdisciplinary College, "Towards understanding TMS mechanism of action"

PROFESSIONAL AFFILIATIONS AND SERVICES

Ad-hoc Reviewer

Neuroimage
Human Brain Mapping
Brain Stimulation
Frontiers in Human Neuroscience
Neuropsychologia
The Veterinary Journal
European Journal of Neuroscience
Brain Connectivity
Nature Mental Health
Nature Communications

Professional Organization Member

International Society for Magnetic Resonance in Medicine
Organization for Human Brain Mapping (OHBM)

Committee Member

Organization for Human Brain Mapping – Brain Stimulation Section (2021)
Brain Stimulation and Imaging Meeting, BrainSTIM (2019), *Program committee*
COST Action 18138 - RISE Network in Peripartum Depression Disorder (since 2019), *Management committee*

TEACHING EXPERIENCE

LECTURES/SEMINARS

- Winter 2021/22 **Medical Physics**, Medical University of Vienna
Functional Magnetic Resonance Imaging, with Prof. Windischberger
- Winter 2020/21 **Medical Physics**, Medical University of Vienna
Functional Magnetic Resonance Imaging, with Prof. Windischberger

Curriculum Vitae

Mag. Martin Tik, PhD
martin.tik@meduniwien.ac.at

Winter 2020/21	MEi:CogSci , University of Vienna Causal inference in cognitive neuroscience (neuroimaging and stimulation)
Winter 2019/20	MEi:CogSci , University of Vienna Causal inference in cognitive neuroscience (neuroimaging and stimulation)
Winter 2018/19	MEi:CogSci , University of Vienna Causal inference in cognitive neuroscience (neuroimaging and stimulation)
Winter 2017/18	MEi:CogSci , University of Vienna Causal inference in cognitive neuroscience (neuroimaging and stimulation)
Winter 2016/17	MEi:CogSci , University of Vienna Causal inference in cognitive neuroscience (neuroimaging and stimulation)

EXTRACURRICULAR

Spring 2019 **Transcranial Magnetic Stimulation**, Interdisciplinary College (IK)

SUPERVISION

PhD	current	Maria Vasileiadi, Medical Physics , Medical University of Vienna Role: Co-supervisor
DI	2019	Roland Fischer, Technical Physics , Technical University of Vienna Role: Co-supervisor
MSc	2018	Matic Princic, Cognitive Science , University of Ljubljana Role: Co-supervisor

TEACHING INTERESTS

Lectures: Introduction to Psychology, Biological Psychology, Cognitive Science, Transcranial Magnetic Stimulation, Functional Magnetic Resonance Imaging

PUBLICATIONS

¹ contributed equally

PEER-REVIEWED JOURNAL ARTICLES (SUBMITTED)

Tik M, Woletz M, Vasileiadi M, Linhardt D, Schuler A, Windischberger C. "Concurrent TMS/fMRI reveals individual DLPFC dose-response pattern". *Neuroimage*. In Revision.

Vasileiadi M, Schuler A, Woletz M, Linhardt D, Windischberger C, Tik M. "Functional connectivity explains how neuronavigated TMS of posterior temporal subregions differentially affects language processing". *Brain Stimulation*. In Revision.

PEER-REVIEWED JOURNAL ARTICLES (PUBLISHED)

First authorship

Tik M, Woletz M, Schuler A, Vasileiadi M, Cash RFH, Zalesky A, Lamm C, Windischberger C. "Acute TMS/fMRI response explains offline TMS network effects – An interleaved TMS-fMRI study". *Neuroimage* (IF=6.55). 2022.

Paul K¹, Tik M¹, Hahn A, Sladky R, Geissberger N, Seidel E, Kranz GS, Pfabigan DM, Kraus C, Lanzenberger R, Lamm C, Windischberger C. "Give Me a Pain that I am used to: Distinct Habituation Patterns to Painful & Non-painful Stimulation". *Scientific Reports* (IF=4.99). 2021.

Geissberger N¹, Tik M¹, Sladky R, Woletz M, Schuler AL, Willinger D, Windischberger C. "Reproducibility of amygdala activation in facial emotion processing at 7T". *Neuroimage* (IF=6.45). 2020 May 1.

Tik M¹, Sladky R¹, Luft CDB, Willinger D, Hoffmann A, Banissy MJ, Bhattacharya J, Windischberger C. "Ultra-high-field fMRI insights on insight: Neural correlates of the Aha!-moment". *Human Brain Mapping* (IF=4.93) 2018 Apr 17.

Tik M, Hoffmann A, Sladky R, Tomova L, Hummer A, Navarro de Lara L, Bukowski H, Pripfl J, Biswal B, Lamm C, Windischberger C. "Towards understanding rTMS mechanism of action: Stimulation of the DLPFC Causes Network-specific Increase in Functional Connectivity." *Neuroimage* (IF=6.45), 162, 289-296. 2017 Nov 15.

Navarro de Lara L¹, Tik M¹, Woletz M, Frass-Kriegl R, Moser E, Laistler E, Windischberger C. "High-sensitivity TMS/fMRI of the Human Motor Cortex Using a Dedicated Multichannel MR Coil." *NeuroImage* (IF=6.45). 2017 Apr 15

Co-authorship

Mizutani-Tiebel, Y., Tik, M., Chang, K., Padberg, F., Soldini, A., Wilkinson, Z., Voon, C. C., Bulubas, L., Windischberger, C., Keeser, D. "Concurrent TMS-fMRI: Technical Challenges, Developments, and Overview of Previous Studies". *Frontiers in Psychiatry* (4.2) 2022.

Linhardt, D., Pawloff, M., Hummer, A., Woletz, M., Tik, M., Ritter, M., Schmidt-Erfurth, U., Windischberger, C. "Combining stimulus types for improved coverage in population receptive field mapping". *Neuroimage* (IF=7.4). 2021.

Woletz M, Roat S, Hummer A, Tik M, Windischberger C. "Technical Note: Human tissue-equivalent MRI phantom preparation for 3 and 7 Tesla." *Med Phys* (IF=3.177). 2021 Aug

Linhardt D, Pawloff M, Hummer A, Woletz M, Tik M, Ritter M, Schmidt-Erfurth U, Windischberger C. "Combining stimulus types for improved coverage in population receptive field mapping." *NeuroImage* (IF=5.90). 2021.

Bukowski H, Tik M, Silani G, Ruff CC, Windischberger C, Lamm C. *"When differences matter: rTMS/fMRI reveals how differences in dispositional empathy translate to distinct neural underpinnings of self-other distinction in empathy"*. Cortex. 2020 Jul 1.

Schuler A, Tik M, Sladky R, Luft CDB, Hoffmann A, Woletz M, Zioga I, Bhattacharya J, Windischberger C. *"Modulations in resting state networks of subcortical structures linked to creativity."* Neuroimage (IF=6.45). 2019 Mar 29.

Rütgen M, Pletti C, Tik M, Kraus C, Pfabigan DM, Sladky R, Klöbl M, Woletz M, Vanicek T, Windischberger C, Lanzenberger R, Lamm C. *"Antidepressant treatment, not depression, leads to reductions in behavioral and neural responses to pain empathy."* Transl Psychiatry (IF=4.69) 2019 Jun 7.

Kraus C, Seiger R, Pfabigan D, Sladky R, Tik M, Paul K, Woletz M, Gryglewski G, Vanicek T, Komorowski A, Kasper S, Lamm C, Windischberger C, Lanzenberger R. *"Hippocampal Subfields in Acute and Remitted Depression - an Ultra-High Field Magnetic Resonance Imaging Study."* Int J Neuropsychopharmacol (IF=4.207). 2019 Jun 6.

Woletz M, Hoffmann A, Tik M, Sladky R, Lanzenberger R, Robinson S, Windischberger C. *"Beware detrending: Optimal preprocessing pipeline for low-frequency fluctuation analysis."* Human Brain Mapping (IF=4.93). 2018 Nov 15.

Kraus C, Klöbl M, Tik M, Auer B, Vanicek T, Geissberger N, Pfabigan DM, Hahn A, Woletz M, Paul K, Komorowski A, Kasper S, Windischberger C, Lamm C, Lanzenberger R. *"The pulvinar nucleus and antidepressant treatment: dynamic modeling of antidepressant response and remission with ultra-high field functional MRI"*. Mol Psychiatry (IF=13.20). 2018 Feb 8. 2018.

Hummer A, Ritter M, Woletz M, Ledolter AA, Tik M, Dumoulin SO, Holder GE, Schmidt-Erfurth U, Windischberger C. *"Artificial scotoma estimation based on population receptive field mapping"*. Neuroimage (IF=6.45). 2018 Apr 1;169:342-351. 2018.

Höflich A, Ganger S, Tik M, Hahn A, Kranz GS, Vanicek T, Spies M, Kraus C, Windischberger C, Kasper S, Winkler D, Lanzenberger R. *"Imaging the neuroplastic effects of ketamine with VBM and the necessity of placebo control"*. Neuroimage (IF=6.45) Feb 15;147:198-203, 2017.

Tik M, Woletz M, Navarro de Lara L, Sladky R, Hoffmann A, Hummer A, Windischberger C. *"Mapping TMS local and remote immediate effects by concurrent TMS/fMRI using a dedicated high-sensitivity coil array."* Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation (IF=6.12). 2017 Mar 1;10(2):489-91.

Spies M, Kraus C, Geissberger N, Auer B, Klöbl M, Tik M, Stürkat IL, Hahn A, Woletz M, Pfabigan DM, Kasper S, Lamm C, Windischberger C, Lanzenberger R. *"Default mode network deactivation during emotion processing predicts early antidepressant response."* Transl Psychiatry (IF= 6.66) Jan 24;7(1):e1008, 2017.

Sladky R, Geissberger N, Pfabigan DM, Kraus C, Tik M, Woletz M, Paul K, Vanicek T, Auer B, Kranz GS, Lamm C, Lanzenberger R, Windischberger C. *"Unsmoothed functional MRI of the human amygdala and bed nucleus of the stria terminalis during processing of emotional faces."* Neuroimage (IF=6.45) Jan 17, 2017.

Sladky R, Stepniczka I, Boland E, **Tik M**, Lamm C, Hoffmann A, Buch, J, Niedermeier D, Field J, Windischberger C. *"Neurobiological differences in mental rotation and instrument interpretation in airline pilots"*. Scientific Reports (IF=4.12) 6, 2016.

Hummer A, Ritter M, **Tik M**, Ledolter AA, Woletz M, Holder GE, Dumoulin SO, Schmidt-Erfurth U, Windischberger C. *"Eyetracker-based gaze correction for robust mapping of population receptive fields."* Neuroimage (IF=6.45) Nov 15;142:211-224, 2016.

CONFERENCE PRESENTATIONS

TALKS

Tik M, Woletz M, Schuler A, Vasileiadi M, Linhardt D, Lamm C, Windischberger C. *"Network Target Engagement in the Prefrontal Brain explained by Concurrent TMS/fMRI"*. 27th Meeting of the Organization for Human Brain Mapping, HBM – Online 2021.

Tik M, Woletz M, Schuler A, Princic M, Hummer A, Windischberger C. *"Advanced methods for concurrent TMS/fMRI explain target engagement in 10Hz rTMS treatment."* Annual Meeting of the International Society for Magnetic Resonance Imaging, ISMRM - Online 2020.

Tik M. *"Imaging Transcranial Magnetic Stimulation."* Invited Talk. Imagers Interest Group, University of Cambridge, 2019

Tik M, Woletz M, Schuler A, Princic M, Pratapa A, Hummer A, Windischberger C. *"Explaining rTMS network modulations by acute TMS/fMRI response."* Brain Stimulation and Imaging Meeting, BrainSTIM - Rome. 2019.

Tik M, Woletz M, Princic M, Geissberger N, Schuler A, Hummer A, Windischberger A. *"Individualizing Brainstimulation through concurrent TMS/fMRI."* Brain Stimulation and Imaging Meeting, BrainSTIM - Singapore. 2018.

Tik M, Woletz M, Kranz G, Pfabigan D, Geissberger N, Sladky R, Kraus C, Auer B, Vanicek T, Paul K, Lamm C, Lanzenberger R, Windischberger C. *"Connectomic insights into depression and TMS as a treatment option."* 23rd Meeting of the Organization for Human Brain Mapping, HBM – Vancouver, 2017.

Tik M, Woletz M, Navarro de Lara L, Sladky R, Hoffmann A, Hummer A, Windischberger C. *"Mapping TMS local and remote immediate effects by concurrent TMS/fMRI using a dedicated high-sensitivity coil array."* The triple M approach: Mapping, Modeling and Modulation in brain stimulation research, 2nd International Brain Stimulation Conference - Barcelona, 2017.

Tik M, Sladky R, Di Bernardi Luft C, Hoffmann A, Hummer A, Banassy M, Bhattacharya J, Windischberger C. *"Aha! I got it. Engagement of dopaminergic pathways during insight."* MIC Conference: From creative brains to creative societies - Bologna, 2016.

Tik M, Woletz M, Navarro de Lara L, Sladky R, Hoffmann A, Hummer A, Windischberger C. *"Multimodal assessment of TMS-induced acute effects."* 6th International Conference on Transcranial Brain Stimulation - Göttingen, 2016.

Tik M, Woletz M, Navarro de Lara L, Sladky R, Hoffmann A, Hummer A, Windischberger C. *"Multimodal assessment of TMS acute and long-term changes."* Brain Stimulation and Imaging Meeting, BrainSTIM - Geneva, 2016.

POSTERS

Tik M, Princic M, Woletz M, Schuler A, Windischberger C. Concurrent TMS/fMRI demonstrates direct sgACC target engagement. 27th Meeting of the Organization for Human Brain Mapping, HBM - Online 2020.

Tik M, Woletz M, Schuler A, Linhardt D, Hummer A, Windischberger C. Multi-band accelerated TMS/fMRI for continuous EPI during stimulation shows 10Hz acute effects. 27th Meeting of the Organization for Human Brain Mapping, HBM - Online 2020.

Tik M, Woletz M, Princic M, Schuler A, Geissberger N, Hummer A, Windischberger A. Individualizing Brainstimulation through concurrent TMS/fMRI. 3rd International Brain Stimulation Conference - Vancouver, Canada. 2019.

Tik M, Woletz M, G Kranz, D Pfabigan, N Geissberger, R Sladky, C Kraus, B Auer, T Vanicek, K Paul, R Lanzenberger, C Lamm, Windischberger C. Remission from depression and tms over left DLPFC share the same network connectivity changes. 3rd International Brain Stimulation Conference - Vancouver, Canada. 2019.

Tik M, Woletz M, Princic M, Geissberger N, Schuler A, Hummer A, Windischberger C. Imaging Transcranial Magnetic Stimulation: Reconsidering Placebo Control. 26th Meeting of the Organization for Human Brain Mapping, HBM - Rome. 2019.

Tik M, Woletz M, Schuler A, Princic M, Pratapa A, Hummer A, Windischberger C. Explaining rTMS network effects by acute concurrent TMS/fMRI response. 26th Meeting of the Organization for Human Brain Mapping, HBM - Rome. 2019.

Tik M, Sladky R, Kranz G, Pfabigan D, Kraus G, Paul K, Reed S, Vanicek T, Auer B, Lanzenberger R, Lamm C, Windischberger C. Right SMG during emotion discrimination distinguishes depression from remission: A new TMS target?. 26th Meeting of the Organization for Human Brain Mapping, HBM - Rome. 2019.

Tik M, Woletz M, Princic M, Schuler A, Geissberger N, Hummer A, Windischberger A. Individualizing Brainstimulation through concurrent TMS/fMRI. 3rd International Brain Stimulation Conference - Vancouver, Canada. 2019.

Tik M, Woletz M, G Kranz, D Pfabigan, N Geissberger, R Sladky, C Kraus, B Auer, T Vanicek, K Paul, R Lanzenberger, C Lamm, Windischberger C. Remission from depression and tms over left DLPFC share the same network connectivity changes. 3rd International Brain Stimulation Conference - Vancouver, Canada. 2019.

Woletz M, **Tik M**, N Pratapa, M Prinčič, Schuler A, Windischberger C. Real-time neuronavigation feedback in concurrent TMS-fMRI. 3rd International Brain Stimulation Conference - Vancouver, Canada. 2019.

Woletz M, **Tik M**, M Prinčič, Schuler A, Windischberger C. EPI-based target tracking in concurrent TMS-fMRI. 3rd International Brain Stimulation Conference - Vancouver, Canada. 2019.

Fischer R, Woletz M, **Tik M**, Windischberger C. A novel setup for high-precision neuronavigated TMS pulses. 25th Meeting of the Organization for Human Brain Mapping, HBM - Rome. 2019.

Princic M, **Tik M**, Woletz M, Geissberger N, Windischberger C. Functional localizers for improved DLPFC targeting: A comparison against standard rTMS targets. 3rd International Brain Stimulation Conference - Vancouver, Canada. 2019.

Princic M, **Tik M**, Woletz M, Geissberger N, Windischberger C. Reproducibility of individualized TMS targets for treatment of depression based on functional MRI. 25th Meeting of the Organization for Human Brain Mapping, HBM - Rome. 2019.

Princic M, **Tik M**, Pfabigan D, Kranz G, Paul K, Kraus C, Woletz M, Auer B, Vanicek T, Lamm C, Rupert L, Windischberger C. Emotion task as functional localiser for TMS: a 7 Tesla comparison study of MDD patients and healthy controls. 25th Meeting of the Organization for Human Brain Mapping, HBM - Rome. 2019.

Princic M, **Tik M**, Pfabigan D, Kranz G, Paul K, Kraus C, Woletz M, Auer B, Vanicek T, Lamm C, Rupert L, Windischberger C. Emotion task as functional localiser for TMS: a 7 Tesla comparison study of MDD patients and healthy controls*. Brain Stimulation and Imaging Meeting, BrainSTIM - Rome. 2019.

Geissberger N, **Tik M**, Sladky R, Woletz M, Hoffmann A, Prinčič M, Windischberger C. The Necessity of Individualized TMS Targets: Inter-subject Variability of DLPFC Activation. 24th Meeting of the Organization for Human Brain Mapping, HBM - Singapore. 2018.

Tik M, Bukowski H, Schuler AL, Hummer A, Lamm C, Windischberger C. Theta burst stimulation of TPJ – a new potential target for depression treatment. 24th Meeting of the Organization for Human Brain Mapping, HBM - Singapore. 2018.

Tik M, Woletz M, Prinčič M, Geissberger N, Schuler A, Hummer A, Windischberger C. Individual DLPFC Dose-Response Profiles through concurrent TMS/fMRI. 24th Meeting of the Organization for Human Brain Mapping, HBM - Singapore. 2018.

Tik M, Sladky R, Luft C, Willinger D, Hoffmann A, Banissy M, Bhattacharya J, Windischberger C. Creative Insight: The role of Nucleus accumbens and the dopaminergic mid-brain. 25th Meeting of the Organization for Human Brain Mapping, HBM - Singapore. 2018.

Woletz M, **Tik M**, Prinčič M, Schuler A, Windischberger C. TMS targets tracking in TMS-fMRI experiments. 24th Meeting of the Organization for Human Brain Mapping, HBM - Singapore. 2018.

Hummer A, Ritter M, Woletz M, Ledolter A A, **Tik M**, Holder G E, Schmidt-Erfurth U, Windischberger C. Multi-band accelerated high resolution population receptive field mapping on 7T*. 24th Meeting of the Organization for Human Brain Mapping, HBM – Singapore. 2018.

Hummer A, Ritter M, Woletz M, Ledolter A A, **Tik M**, Holder G E, Schmidt-Erfurth U, Windischberger C. Population receptive field coverage provided by different retinotopic stimuli in healthy subjects. 24th Meeting of the Organization for Human Brain Mapping, HBM – Singapore. 2018.

Geissberger N, Sladky R, **Tik M**, Hoffmann A, Woletz M, Willinger D, Robinson S, Windischberger C. Explicit versus Implicit Emotion Processing: a 7 Tesla fMRI study. 23rd Meeting of the Organization for Human Brain Mapping, 2017.

Tik M, Woletz M, Navarro de Lara L, Sladky R, Hoffmann A, Schuler AL, Willinger D, Geissberger N, Hummer A, Windischberger C. Mapping TMS immediate effects by concurrent TMS/fMRI using a dedicated high-sensitivity coil array. 23rd Meeting of the Organization for Human Brain Mapping, HBM – Vancouver, 2017.

Tik M, Woletz M, Navarro de Lara L, Sladky R, Hoffmann A, Hummer A, Windischberger C. Insights into depression and TMS as a treatment option. Brain Stimulation and Imaging Meeting, BrainSTIM - Vancouver, 2017.

Tik M, Woletz M, Navarro de Lara L, Sladky R, Hoffmann A, Hummer A, Geissberger N, Windischberger C. Mapping TMS immediate effects by concurrent TMS/fMRI using a dedicated high-sensitivity coil array. 25th Annual Meeting of the International Society for Magnetic Resonance Imaging, ISMRM - Honolulu, Hawaii, 2017.

Tik M, Woletz M, Hummer A, Geissberger N, Windischberger C. Individualized Thresholds: Calibrating brain stimulation through concurrent TMS/fMRI. 2nd European Conference on Brain Stimulation in Psychiatry, ECBSP - Munich, 2017.

Geissberger N, Sladky R, **Tik M**, Woletz M, Hoffmann A, Willinger D, Windischberger C. High BOLD stability of emotional faces processing network in ultra-high field fMRI data. Restingstate and Brain Connectivity, 2016.

Geissberger N, **Tik M**, Sladky R, Woletz M, Hoffmann A, Willinger D, Windischberger C. Reliability of Amygdala fMRI at Ultra-High Field. Organization for Human Brain Mapping Alpine Chapter, 2016.

Tik M, Sladky R, Luft CDB, Hoffmann A, Willinger D, Banissy M, Bhattacharya J, Windischberger C. Aha! Moments Inside: Self-arising creative solutions specified. 22nd Meeting of the Organization for Human Brain Mapping, HBM – Geneva, 2016.

Tik M, Hoffmann A, Sladky R, Tomova L, Hummer A, Navarro de Lara L, Biswal B, Bukowski H, Pripfl J, Lamm C, Windischberger C. Assessing effectiveness and specificity of DLPFC rTMS using an unbiased resting-state approach. 6th International Conference on Transcranial Brain Stimulation - Göttingen, 2016.

Hummer A, Ritter M, **Tik M**, Ledolter A, Schmidt-Erfurth U, Windischberger C. ICA-based denoising of population receptive field maps. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Hummer A, Ritter M, **Tik M**, Ledolter A, Schmidt-Erfurth U, Windischberger C. Eyetracker-based gaze correction for robust mapping of population receptive fields. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Navarro di Lara L, **Tik M**, Woletz M, Bukowski H, Stürkat IL, Lamm C, Moser E, Windischberger C. Boosting the sensitivity of concurrent TMS/fMRI in motor cortex using a dedicated MR coil array. 1th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Sladky R, Hahn A, Stürkat IL, Hoffmann A, Kranz G, **Tik M**, Seiger R, Pfabigan D, Lanzenberger R, Lamm C, Windischberger C. Modeling effective connectivity in the extended emotion processing network using DCM at 7T. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Sladky R, Kraus C, Stürkat IL, Hoffmann A, Lamplmair D, **Tik M**, Spies M, Pfabigan D, Lamm C, Lanzenberger R, Windischberger C. Effective connectivity of amygdala sub regions and OFC in acute and remitted MDD patients at 7T. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Sladky R, Stepniczka I, **Tik M**, Hoffmann A, Buch JP, Lamm C, Niedermeier D, Field J, Windischberger C. Manual control vs. automation monitoring: Inflight decision making in airline pilots. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Sladky R, Stepniczka I, **Tik M**, Lamm C, Hoffmann A, Niedermeier D, Field J, Windischberger C. Neurobiological differences in mental rotation and instrument interpretation in pilots. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Stepniczka I, Sladky R, **Tik M**, Lamm C, Hoffmann A, Niedermeier D, Field J, Windischberger C. Brain Mapping in Aircraft Pilots in-flight: Monitoring and Anticipation in challenging Situations. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Tik M, Sladky R, Di Bernardi Luft C, Hoffmann A, Hummer A, Banassy M, Bhattacharya J, Windischberger C. Ultra-high field fMRI insights on insight: Neural correlates of the “Aha!”-moment. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Tik M, Hoffmann A, Sladky R, Tomova L, Hummer A, Navarro di Lara L, Biswal B, Pripfl J, Lamm C, Windischberger C. 10Hz rTMS over the left DLPFC specifically modulates ACC connectivity within IC network 17. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.

Tik M, Woletz M, Lucia Navarro de Lara, Sladky R, Hoffmann A, Hummer A, Windischberger C. Multimodal Assessment of Local and Remote TMS-induced Effects. 21th Meeting of the Organization for Human Brain Mapping, HBM – Honolulu, 2015.