

Positions:

- **Tenure Track Professor (Ap. Prof.),** Department of Psychiatry and Psychotherapy, Medical University of Vienna
- **Guest Researcher (Special Volunteer)**
National Institute of Mental Health, Experimental Therapeutics and Pathophysiology Branch, National Institute of Health
- **Director of OCD and Tourette Clinic,**
Department of Psychiatry and Psychotherapy, Medical University of Vienna
- **Head of the Clinical Trials Unit,**
Department of Psychiatry and Psychotherapy, Medical University of Vienna

Education:

2002 – 2009 Undergraduate and graduate school: Medical University of Vienna

Postgraduate Education:

2009 – present Research Scientist at the Neuroimaging Lab, Department of Psychiatry and Psychotherapy, Medical University of Vienna.

2012 – 2015 Ph.D. in Clinical Neurosciences. Title: Serotonin and Neuroplasticity – Investigated in vivo by Positron Emission Tomography and structural Magnetic Resonance Imaging. Supervisor: Prof. Rupert Lanzenberger

1.9.2011 – 01.3.2018 Clinical Training, MUV, Department of Psychiatry and Psychotherapy

1.10.2012 – 1.10.2013 Clinical Training, with emphasis on treatment of forensic psychiatric patients in the federal prison “Justizanstalt Josefstadt”

1.3.2014 – 30.9.2014 Psychiatric Consultant Service at the Vienna General Hospital (AKH, ~1770 beds)

1.10.2014 – 1.4.2015 Training in Neurology, Department of Neurology, MUV

1.4.2017 – 31.9.2017 Training in Medicine including work in the ER – State Hospital Eisenstadt

2013 – 2019 Training in Cognitive Behavioral Therapy

1.6.2018 – onwards Tenure track qualification for Assistant Professorship at the MUV

25.6.2018 – 15.7.2019 Postdoctoral Research Fellowship at the National Institutes of Health (around EUR 71.000,- annually), Mentor: Prof. Carlos Zarate, Chief of the Section on the Neurobiology and Treatment of Mood Disorders and Chief of Experimental Therapeutics and Pathophysiology Branch (ETPB) at the NIMH

3.02.2021 Venia docendi (Privat Dozent) at the Medical University of Vienna

25.6.2021 Assistant Professorship (Apl. Prof.) at the MUV

Further Education and Courses:

2009 Psychotherapeutic propaedeutics – H.O.P.P. Vienna

2012 Statistical Parametric Mapping Course

2012 ECNP Workshop on Neuropsychopharmacology for Young Scientists in Europe

2015 ECNP Clinical Trials Workshop (Prof. Eduard Vieta)

2015 Targeted Network Meeting, ECNP, Amsterdam

2016 ECNP Brain Price Master Class (Prof. Trevor Robbins)

2019 AFNI Bootcamp
Practical knowledge of R, Linux, AFNI, SPM, PMOD, Matlab.

Scientific Collaborations:

2009 – now staff member in the „NEUROIMAGING LABS (NIL)“, Department of Psychiatry and Psychotherapy, MUW. Collaboration and coinvestigator in clinical projects focused on neuroimaging. PI Rupert Lanzenberger

2018 – now **Guest Researcher** at the National Institute of Mental Health, Experimental Therapeutics and Pathophysiology Branch, National Institute of Health. PI: Carlos A. Zarate, Jr.

Grants

- 2020-2024 NARSAD Young Investigator Grant: Glucose Consumption During Deep Brain Stimulation with Functional [¹⁸F]FDG-Brain-PET in Obsessive Compulsive Disorder. (EUR 62.765)
- 2023-present A Global Prospective, Multi-center, Observational post-market Study to assess short, mid and long-term effectiveness and efficiency of VNS Therapy® as adjunctive therapy in real-world patients with difficult to treat Depression (RESTORE-LIFE), Sponsor: LivaNova
- 2024-present Rapid Efficacy of Ketamine in Obsessive-Compulsive Disorder and Effects on Stress in a Randomized, Controlled, Crossover Open-Label (KET-OCD), KLIF-FWF (EUR 364.977)

Follow Up Trial

University Teaching:

- Thesis: Five supervised undergraduate thesis supervisions, five pending. One PhD thesis pending
- 2013 – present Lecturer in clinical psychiatry and psychopharmacology at the Medical University of Vienna (~130 lectures).
- 2014 – 2018 Nurse training in clinical psychiatry at the School of Nursing of the Vienna Hospital Association

Other Professional Activities:

- 2012 – 2017 Representative of resident psychiatrists at the Department of Psychiatry and Psychotherapy
- 2016 - 2017 Teaching Coordinator at the Department of Psychiatry and Psychology, Medical University of Vienna
- 2023-2026 ECNP Abstract and Poster Committee

Memberships in Professional Societies:

European College of Neuropsychopharmacology (ECNP), The International College of Neuropsychopharmacology (CINP), Austrian Psychiatric and Psychotherapeutic Association (ÖGPP), Austrian Pharmacological Society (APHAR), Austrian Society for fMRI & Organization for Human Brain Mapping, Alpine Chapter, Austrian Medical Chamber

Reviewer for Manuscripts:

Ad hoc reviewer for Biological Psychiatry, Molecular Psychiatry, Journal of Psychiatry and Neuroscience, British Journal of Psychiatry, Psychological Medicine, Cerebral Cortex, Neuropsychopharmacology, Pharmaceuticals, World Journal of Biological Psychiatry, NeuroImage, Human Brain Mapping, International Journal of Neuropsychopharmacology, Journal of Affective Disorders, Psychiatry Research, Neuroscience and Biobehavioral Reviews, Molecular Neurobiology, Social Psychiatry and Psychiatric Epidemiology, Child Abuse and Neglect and many others

Editorial Work:

Journal of Chronic Stress – Editor including deputy chief editorial work
BMC Psychiatry – Associate Editor, Mood Disorders
Guest Editorial: Frontiers in Neuroscience

Awards

- 2011 Best Poster Award, 7th PhD Symposium MUW
- 2012 Best Poster Award, 8th PhD Symposium MUW, Stipendiate for international Mobility by the Österreichische Forschungsgesellschaft (ÖFG)
- 2012 BSM – ÖGN – Mallinckrodt Förderungspreis for nuclear medicine
- 2014 Rafaelsen Young Investigator's award by the International College of Neuropsychopharmacology (CINP), Stipendiate for international Mobility by the Österreichische Forschungsgesellschaft (ÖFG)
- 2015 WFSBP Educational Grant

- 2015 ECNP Travel Award, Austrian Society for Neuropsychopharmacology and Biological Psychiatry – Prize for Clinical Psychiatry
- 2016 Rudolf Höfer Price for nuclear medicine
- 2020 SOBP International Travel Fellowship Award
- 2021 American Society of Clinical Psychopharmacology – New Investigator Award
- 2023 Austrian Society for Neuropsychopharmacology and Biological Psychiatry – Depression Prize

Chairs at International Meetings:

- Co-Chair, Serotonin and Neuroplasticity at the WFSBP Conference 2015
- Young Programme Sub-committee for the CINP Seoul Congress 2016
- Brainstorming Session, ECNP-Congress Vienna 2016
- Translating ketamine's rapid neuroplastic effects from animals to humans, Symposium Chair and Talk, SOBP 2021 San Diego
- Symposium ECNP 2021 Lisbon

Publications in peer-reviewed journals:

ORCID: [0000-0002-7144-2282](https://orcid.org/0000-0002-7144-2282)
[PubMed](https://pubmed.ncbi.nlm.nih.gov/)

Most important Publications (first authorships):

1. **Kraus C**, Evans J, Kadriu B, Park L, Nugent A, Zarate C. Evaluation of Reduced Global Brain Connectivity in Resistant Depressive Patients, *Neuropsychopharmacology*, 2020 Jan 29 [Online ahead of print], <https://doi.org/10.1038/s41386-020-0624-0>
2. Mkrtchian A, Evans JW, **Kraus C**, Yuan P, Kadriu B, Nugent AC, Roiser JP, Zarate CA Jr. Ketamine modulates fronto-striatal circuitry in depressed and healthy individuals. *Mol Psychiatry*. 2020 Sep 14. <https://doi.org/10.1038/s41380-020-00878-1>
3. **Kraus C**, Klöbl M, Tik M, Auer B, Vanicek T, Geissberger N, Pfabigan DM, Hahn A, Woletz M, Komorowski A, Kasper S, Windischberger C, Lamm C, Lanzenberger. Antidepressant treatment reduces pulvinar hyperactivity – Dynamic modeling of response and remission with ultra-high field functional MRI, *Molecular Psychiatry*, <https://doi.org/10.1038/s41380-017-0009-x>
4. **Kraus C**, Ganger S, Losak J, Hahn A, Savli M, Kranz GS, Baldinger P, Windischberger C, Kasper S, Lanzenberger R, Gray matter and intrinsic network changes in the posterior cingulate cortex after selective serotonin reuptake inhibitor intake. *NeuroImage* 2014; 84:236-244. <https://doi.org/10.1016/j.neuroimage.2013.08.036>
5. **Kraus C**, Hahn A, Savli M, Kranz GS, Baldinger P, Höflich A, Spindelegger C, Ungersböck J, Häusler D, Mitterhauser M, Windischberger C, Wadsak W, Kasper S, Lanzenberger R. Serotonin-1A receptor binding is positively associated gray matter volume – A multimodal neuroimaging study combining PET and structural MRI. *NeuroImage* 2012 Nov 15;63(3):1091-1098. <https://doi.org/10.1016/j.neuroimage.2012.07.035>

Scientific Contribution and Significant Milestones:

1. Doctoral thesis on structural functional and molecular connections between serotonin and neuroplasticity. Studies confirmed close connections *in vivo* in humans with multimodal neuroimaging. Neuroimaging Lab, Medical University of Vienna
2. Postdoctoral research fellowship on ketamine treatment in major depressive disorder including research on imaging marker of treatment response. Replication of previous resting-state fMRI-based imaging marker on rapid antidepressant response to ketamine. National Institute of Mental Health (NIMH), Bethesda, USA.
3. Establishment of deep brain stimulation in psychiatric patients at the Department of Psychiatry and Psychotherapy including a clinical trial in obsessive compulsive disorder.