



## SEMMELWEIS UNIVERSITY

Faculty of Medicine Department of Psychiatry and Psychotherapy

Professor and Chair

**DR. RÉTHELYI JÁNOS, PH.D**

**Diploma topics  
of the Department of Psychiatry and Psychotherapy  
for the academic year of 2026/2027**

1. Psychiatric genetics
2. Pharmacotherapy of Schizophrenia
3. Pharmacotherapy of Attention-Deficit/Hyperactivity Disorder
4. Induced pluripotent stem cell based in vitro disease modeling in psychiatric disorders

**Tutor: Prof. János Réthelyi**

1. Fast acting antidepressants
2. Pharmacological treatment of negative symptoms of schizophrenia
3. Placebo effect in psychiatric disorders

**Tutor: Prof. István Bitter**

1. Treatment and biosocial models of personality disorders
2. Early maladaptive schema's role in affect-regulation, interpersonal behaviour, and mental disorders
3. Management and possible treatments of tic disorder in tourette's syndrome
4. Investigating executive functions in social context in affective, anxiety, trauma related and personality disorders

**Tutor: Dr. Zsolt Unoka**

1. Blood-based biomarkers in Alzheimer's disease

**Tutor: Dr. Zoltán Hidasi**

1. Identification of biomarkers for psychiatric illnesses using electrophysiological methods
2. Electrophysiological investigation of motion in particular biological motion processing in psychiatric diseases

**Tutor: Dr. Pál Czobor/ Dr. Brigitta Kakuszi**

1. Current concepts of the mechanism of actions of electroconvulsive therapy
2. Cognitive side effects of electroconvulsive therapy
3. Cataton symptoms in affective disorders
4. Biomarkers of catatonia

**Tutor: Dr. Gábor Gazdag**

1. Forensic Psychiatry: An overview of the Hungarian practice

**Tutor: Dr. Szabó Ferenc Ádám**

1. Cognitive functions in autism spectrum disorder

**Tutor: Dr. Farkas Kinga**

1. Contemporary approaches and complex treatment of bipolar disorder
2. LSD and psilocybin in the treatment of psychiatric disorders: mechanism of action, long-term effects, and clinical promises
3. The impact of ADHD on emotional regulation and its association with vulnerability to anxiety and/or trauma-related disorders
4. The staging approach of schizophrenia
5. Psychological and psychotherapeutic treatment options for ADHD
6. Environmental factors and gene-environment interactions in the development of psychiatric disorders
7. Immunometabolic depression: theoretical background and practical implications
8. The role of inflammatory and immunological processes and markers in depression

**Tutor: Dr. Xénia Gonda**

1. Use of Artificial Intelligence Tools by psychiatric patients: support for insight or risk for transformation

**Tutor: Dr. Tamás Treuer**