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experiences. This is especially true for schizophrenic patients: through loose associations during the reception, their suppressed emotions and unprocessed traumas from the past may come to the surface. Our aim was to examine the effect of an artwork created by a schizophrenic poet on schizophrenic patients and compare it to that of university students.

Methods. We interviewed schizophrenic patients (n=11) and university students (n=11) after reading the poem Peace and Silence by Georg Trakl. We examined the process of reception using Norman N. Holland's transactional psychoanalysis model and observed the readers go through the four stages of artwork interpretation – expectations, defense, fantasy, transformation – which the acronym DEFT (employed by Holland) stands for.

Results. Our examination demonstrated the key role of transactional psychoanalysis in regard to artwork interpretation. During the process of reception we observed a dominant effect of personality in the group of university students and that of symptomatology and past adverse life events in psychiatric patients.

Conclusions. We can conclude that the identifications, defenses and fantasies of the reader provide valuable information regarding processes of the psyche that would otherwise remain unrevealed. Our examination justifies the clinical importance of art therapy and its efficiency in exploring the often inaccessible mind of schizophrenic patients.

Keywords: schizophrenia, transactional psychoanalysis, art therapy, Georg Trakl, DEFT

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INVESTIGATION OF PITUITARY ADENYLATE-CYCLASE ACTIVATING POLYPEPTIDE IN PARKINSONIAN PATIENTS

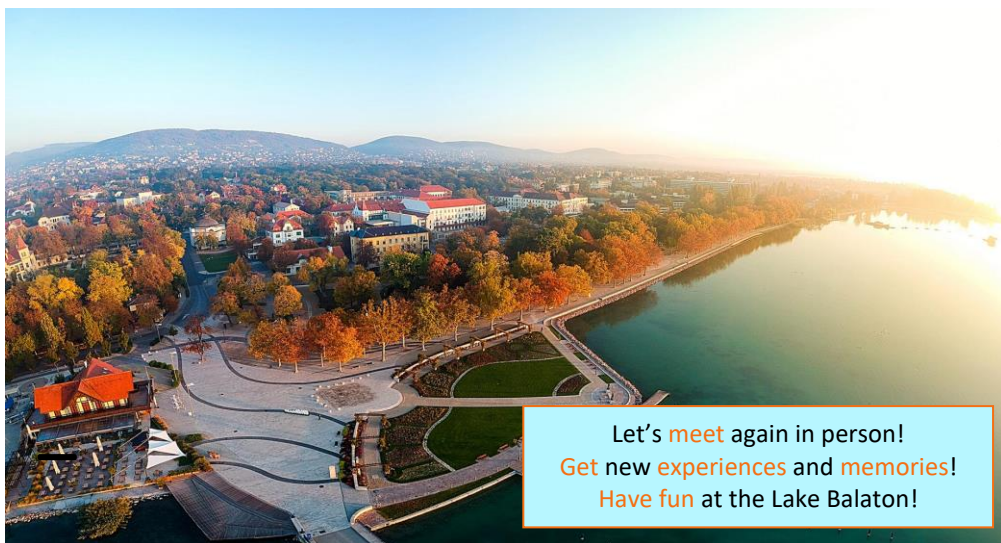
The neurotrophic, neuroprotective and general cytoprotective effects of pituitary adenylate cyclase-activating polypeptide(PACAP) are shown in numerous experiments. Our research team has proven the neuroprotective effects of PACAP in several in vitro and in vivo experiments supporting the theory that PACAP could have an important role in the pathomechanism of Parkinson's disease(PD). Earlier studies found significantly elevated PACAP levels after acute neurological events e.g. traumatic brain injury. In chronic diseases e.g. Alzheimer's disease or multiple sclerosis, reduced PACAP levels were found. The aim of our research group was to examine PACAP in plasma samples of patients with PD.

Plasma PACAP-38 levels were measured with sandwich-type ELISA (PD n=107, control n=39) and correlated with clinical parameters e.g. gender, age, PD stage and subtype, specified scores and treatment for PD.

Our results showed significantly decreased PACAP-38 levels in PD patients without deep brain stimulation (DBS) therapy, in the Hoehn and Yahr scale stage 3 and 4, older than 50 years, and in the akinetic-rigid subtype. Elevated levels were found among patients with DBS compared to the untreated patient group. Our results did not show significant correlations between plasma PACAP-38 levels and the MDS-UPDRS, type of pharmacological treatment or the applied sleepiness and depression scales.

In this study we proved that PACAP levels may alter in PD. Based on these results, we suggest that PACAP might be a potential biomarker of this neurodegenerative disease offering an opportunity for early diagnosis, predicting the prognosis and help to plan clinical therapy.

Keywords: Parkinson's disease, PACAP, DBS, HYS



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In-person congress

**State Hospital of Cardiology in Balatonfüred,
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2021. augusztus 28 SZOMBAT / 28 August 2021 SATURDAY

	Eszterházy Hall /Terem	Cinema Hall / Moziterem	CIBA Hall / Terem	Young Scientist's Lounge	Poster Area / Poszter rész
08:30 – 16:00	Regisztráció / Registration				
09:30 – 11:00	SS Anesthesiology- Intensive Care- Emergency care - Neurology session 	SS Physiology- Pathophysiology- Immunology-Cell Biology session 			PS Cardiology- Internal Medicine-Family Medicine Pulmonology 
11:00 – 11:15	Break / szünet				
11:15 – 12:25	SS Orthopedics- Otorhinolaryngology- Surgery-Traumatology- Neurosurgery session 		WS 5. Statistika: minden, amit tudni érdemes		PS Radiology- Pathology- Oncology 
12:25 – 12:35	Break / szünet				
12:35 – 12:45					Csoportfénykép / Group photo 
12:45 – 14:15	13:30-14:15 Highlighted session: Cannabis	Lunch Area of the Hospital / Ebédlő Ebéd / Lunch CULINARY ACTIVITY I. turnus (1st turn): 12:45-13:30, II. turnus (2nd turn): 13:30-14:15 			
14:15 – 15:00	Highlighted session: Traumatic Brain Injury: cerebral autoregulation and neuromonitoring		WS 6. Microbiota és egészség		
15:00 – 15:20					Frissítő fánk party/Refreshing donut party CULINARY ACTIVITY 
15:20 – 16:30	Highlighted session: MTT session				
16:30 – 16:40	Break / szünet				
16:40 – 17:15	CEREMONY SESSION: AWARDS				

Signs/Jelölések:

SS – Scientific session

Oral/szóbeli



PS – Poster session

Poster



WS – Workshop

Culinary activity



Social event



2021. augusztus 28. szombat / 28 August 2021 Saturday

	ESZTERHÁZY HALL	CINEMA HALL
9:30-11:00	SS Anesthesiology-Intensive Care-Emergency care - Neurology session 	SS Physiology-Pathophysiology-Immunology-Cell Biology session 
	Moderátor/Moderator: <i>Ivan Harangozo, MD, PhD, Laszlo L. Mechtler, MD</i> Zsűritagok/Jury members: <i>Ivan Harangozo, MD, PhD, Laszlo L. Mechtler, MD, Dr. Kanizsai Péter PhD, Dr. Csépanyi Tünde</i>	Moderátor/Moderator: <i>Prof. Dr. Mátyus László, Prof. Dr. Erdődi Ferenc</i> Zsűritagok/Jury members: <i>Prof. Dr. Mátyus László, Prof. Dr. Erdődi Ferenc, Dr. Szadai Leticia, Dr. Antal Dóra</i>
	09:30-09:40 EN INTRAOPERATIVE BLOOD PRESSURE CHANGES DURING KIDNEY TRANSPLANTATION AND THEIR EFFECT ON THE OCCURRENCE OF DELAYED GRAFT FUNCTION (DGF) <u>Alexandra Mune Assani</u> medical student, 5th year1, Anikó Smudla senior lecturer, supervisor2 1Semmelweis University, Budapest, Hungary. 2Department of Transplantation and Surgery, Semmelweis University, Budapest, Hungary	09:30-09:40 EN SINGLE-CELL TRANSCRIPTOMICS REVEALS CENTRAL ROLE OF SENCENCE ENDOTHELIAL AND MICROGLIA CELLS IN THE DEVELOPMENT OF VASCULAR COGNITIVE IMPAIRMENT <u>Tamas Kiss MD.</u>, PhD.1, Priya Balasubramanian PhD.2, Stefano Tarantini PhD.2, Chetan Ahire BSc.2, Jordan DeFavero BSc.2, Eszter Farkas PhD.3, Andriy Yabluchanskiy MD., PhD.2, Tamás Csipo MD.4, Graham Wiley PhD.5, Lori Garman PhD.5, Anna Csiszár MD., PhD.2, Zoltán Ungvári MD., PhD.4,2 1Department of Pediatrics, University of Szeged, Szeged, Hungary. 2Department of Biochemistry & Molecular Biology, University of Oklahoma Health Sciences Center, Oklahoma City, USA. 3Department of Medical Physics and Informatics, Szeged, Hungary. 4Department of Public Health, Semmelweis University, Budapest, Hungary. 5Oklahoma Medical Research Foundation, Oklahoma City, USA
	09:40-09:50 EN ADMINISTRATION OF VITAMINS AND LOW DOSE HYDROCORTISONE IN THE SUPPORTIVE CARE OF SEPTIC PATIENTS <u>Natalia Tóth</u>, Diana Mühl MD, PhD Department of Anaesthesia and Intensive Therapy, University of Pécs, Hungary	09:40-09:50 EN MICROCIRCULATORY - MITOCHONDRIAL RESUSCITATION BY MODULATION OF ENDOTHELIN RECEPTORS IN A RODENT MODEL OF SEPSIS <u>Roland Fejes</u>, Attila Rutai, Szabolcs Péter Tallósy PhD, Marietta Zita Poles PhD, László Juhász PhD, András Mészáros MD, PhD, Mihály Boros MD, DSc, József Kaszaki PhD Institute of Surgical Research, Szeged, Hungary
	09:50-10:00 EN DEVELOPMENT OF A NOVEL VENTILATION STRATEGY: APPLICATION OF MIXED FREQUENCIES IN AN ANIMAL MODEL <u>Bence Ballók</u>, Richárd Máté Kulcsár, Álmos István Schranc MD, Gergely H. Fodor MD PhD, Ferenc Peták PhD DSc University of Szeged, Department of Medical Physics and Informatics, Szeged, Hungary	
	10:00-10:10 EN SLEEP MACROSTRUCTURE, COGNITIVE SYMPTOMS AND BRAIN STRUCTURAL DIFFERENCES IN ALZHEIMER'S DISEASE:	

	POSSIBLE CONNECTIONS? <u>Anna Kegyes-Brassai</u>¹, András Horváth MD. PhD², Anita Kamondi MD PhD, DSc² ¹Faculty of Medicine, Semmelweis University, Budapest, Hungary. ²National Institute of Clinical Neurosciences, Budapest, Hungary 10:10-10:20 EN GEORG TRAKL – EXAMINATIONS OF THE PSYCHOLOGY OF CREATION AND RECEPTION <u>Borbála Pethő</u>, Tamás Tényi M.D. Ph.D. D.Sc. University of Pécs Clinical Centre Department of Psychiatry and Psychotherapy, Pécs, Hungary 10:20-10:30 EN INVESTIGATION OF PITUITARY ADENYLATE-CYCLASE ACTIVATING POLYPEPTIDE IN PARKINSONIAN PATIENTS <u>Tünde Tóth</u>¹, Dániel Pham Dr.¹, Beáta Polgár Dr.², Adél Jüngling Dr.¹, Norbert Kovács Prof. Dr.³, István Balás Dr.⁴, Endre Pál Dr.³, Dóra Szabó Dr.⁵, Balázs Dániel Fülöp Dr.¹, Róbert Herczeg Dr.⁶, Attila Gyenesei Dr.⁶, Zsolt Szántó Dr.⁷, Dóra Reglődi Prof. Dr.¹, Andrea Tamás Dr.¹ ¹Department of Anatomy, MTA-PTE PACAP Research Team, Centre for Neuroscience, University of Pécs, Medical School, Pécs, Hungary. ²Department of Medical Microbiology and Immunology, University of Pécs, Medical School, Pécs, Hungary. ³Department of Neurology, University of Pécs, Medical School, Pécs, Hungary. ⁴Department of Neurosurgery, University of Pécs, Medical School, Pécs, Hungary. ⁵Heart Institute, University of Pécs, Medical School, Pécs, Hungary. ⁶Szentagóthai Research Center, University of Pécs, Medical School, Pécs, Hungary. ⁷Department of Surgery, University of Pécs, Medical School, Pécs, Hungary 10:30-10:40 Panel discussion	09:50-10:00 EN THE EFFECT OF INTRAAMYGDALOID OXYTOCIN TREATMENT ON SOCIAL INTERACTION IN AUTISM ANIMAL MODEL <u>Orsolya Kiss</u>, Kristóf László MD, PhD habil. Department of Physiology, University of Pécs Medical School, Pécs, Hungary 10:00-10:10 EN INVESTIGATION OF POSITIVE INOTROPIC AGENTS ON THE CONTRACTILITY AND CA²⁺ TRANSIENTS OF ISOLATED CANINE LEFT VENTRICULAR CARDIOMYOCYTES <u>Zsófia Réka Mészáros</u> medical student, Arnold Péter Ráduly MD, PhD student, Attila Tóth professor University of Debrecen, Debrecen, Hungary 10:10-10:20 EN EXAMINATION OF THE EGR2 TRANSCRIPTION FACTOR'S GENE EXPRESSION AND REGULATORY ROLE IN COPD-DERIVED ALVEOLAR MACROPHAGES <u>Gréta Kemenes</u>, Zsuzsanna Kolostyák MD, László Nagy MD, PhD, MHAS Department of Biochemistry and Molecular Biology, Debrecen, Hungary 10:20-10:30 EN THE PRESENCE AND ROLE OF BETA THYMOSINS IN MAMMALIAN INNER EAR DEVELOPMENT <u>Bálint Lippai M.D.</u>^{1,2}, Ildikó Bock-Marquette M.D., PhD^{3,2}, Péter Bakó M.D., PhD^{1,2} ¹Department of Otorhinolaryngology, Head and Neck Surgery, University of Pécs, Medical School, Pécs, Hungary. ²Regenerative Science, Sport and Medicine Research Group, University of Pécs, Szentagóthai Research Centre, Pécs, Hungary. ³Department of Biochemistry and Medical Chemistry, University of Pécs, Medical School, Pécs, Hungary 10:30-10:40 Panel discussion
11:00-11:15	Break/Szünet	