

Doctoral College Metabolic & Cardiovascular Disease



THE ROLE OF SEROTONIN IN METABOLIC AND NEUROPSYCHIATRIC DISORDERS: INSIGHTS FROM HUMAN AND ANIMAL STUDIES

GUEST LECTURE by



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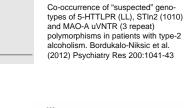
Laboratory of Neurochemistry & Molecular Neurobiology, Division of Molecular Biology, Rudjer Boskovic Institute, Zagreb, Croatia

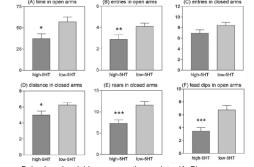
> Monday, 13.06.2016 13:00

SR 26.K3, Department of Pathophysiology & Immunology, MUG (Heinrichstrasse 31a, basement)

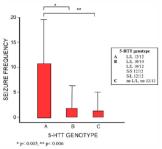
	L/L 12/12, n=7	L/L 10/10, L/L 10/12, S/S 12/12, S/L 12/12, n=56	No L/L, no 12/12, n=34
Age (years)	32 ± 14	33±14	32 ± 13
Gender (M/F in %)	42.9/57.1	23.2 ± 76.8	38.9 ± 61.1
Age of onset (years)	19 ± 13	22 ± 15	20 ± 12
Seizure Frequency/6 Mo	11.0 ± 8.5	2.0 ± 5.1	1.6 ± 3.5
Seizure duration (years)	15 ± 12	11 ± 10	13 ± 11
Current number of AEDs	1.8 ± 0.9	1.5 ± 0.8	1.5 ± 0.8
History of secondarily generalized seizures or status epilepticus	71%	36%	44%
Presence of mesial temporal sclerosis (%)	25	31	19
Education (years, %)			
8	28.6	3.6	5.6
12	42.9	67.9	63.9
16	28.6	63.9	25.0
Employed (Y, %)	57.1	71.4	77.8
Married (Y, %)	28.6	37.5	50

Demographic and clinical variables of 101 TLE patients, based on the 5-HTT polymorphism. Hecimovic et al. (2010) Epilepsy Res 91:35-8

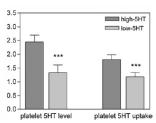




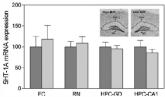
Behavioural variables representing anxiety- (A, B), locomotion- (C, D) and exploratory-related (E, F) behaviours measured in animals from high-5HT and low-5HT sublines in the elevated-plus maze test. Bordukalo-Niksic et al. (2010) Behav Brain Res 213(2):238-45



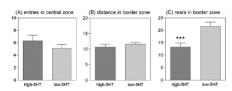
Seizure frequency was significantly higher in L/L and 12/12 5-HTT genotypes than in L/L 10/10, L/L 10/12, S/S 12/12 and S/L 12/12 genotypes. Hecimovic et al. (2010) Epilepsy Res 91:35-8



Platelet serotonin and velocity of platelet serotonin uptake in animals from high-5HT and low-5HT sublines. Bordukalo-Niksic et al. (2010) Behav Brain Res 213(2):238-45



5HT-1A mRNA expression in different brain regions of animals from high-5HT (dark gray) and low-5HT (light gray) sublines of the Wistar-Zagreb 5HT rats. Bordukalo-Niksic et al. (2010) Behav Brain Res 213(2):238-45



Behaviour in open field: variables representing anxiety-(A), locomotion- (B) and exploratory-related C) behaviours measured in animals from high-5HT and low-5HT sublines under mild anxiety conditions. Bordukalo-Niksic et al. (2010) Behav Brain Res 213(2):238-45