

9th CROATIAN NEUROSCIENCE CONGRESS

17th to 19th November 2023

POSTER PRESENTATION SCHEDULE, Sunday, November 19th 2023

9.00 POSTER PRESENTATIONS I (3-min oral presentations)

9.00-10.30 Poster presentations according to schedule

Chairs: Svjetlana Kalanj Bognar, Kristina Mlinac Jerković, Senka Blažetić

PP1. MOLECULAR BACKGROUND OF SOMATOSENSORY ALTERATIONS IN ADOLESCENT RATS AFTER MILD PERINATAL HYPOXIA

Ana Spajić, Barbara Nikolić, Sara Trnski, Matea Drlje, Mihaela Bobić-Rasonja, Ivan Banovac, Dubravka Hranilović, Zdravko Petanjek, Nenad Šestan, Miloš Judaš, Nataša Jovanov-Milošević

PP2. DENERVATION-INDUCED CHANGES OF SYNAPTOPODIN, ARC AND GEPHYRIN IN DENTATE GRANULE CELLS FOLLOWING TRANSECTION OF THE PERFORANT PATHWAY

Fran Božić, Dinko Smilović, Mario Zelić, Thomas Deller, Mario Vukšić

PP3. EXPLORING THE DEVELOPMENT OF HUMAN SUBTHALAMIC NUCLEUS: AN ANALYSIS OF MOLECULAR MARKERS

Emma Bokulić, Tila Medenica, Mihaela Bobić-Rasonja, Marija Milković Periša, Nataša Jovanov Milošević, Goran Sedmak

PP4. CAN HUMAN ORAL MUCOSA STEM CELLS IMPROVE SURVIVAL OF NEURONS AFFECTED BY IN VITRO ANOXIA ?

Paula Stančin, Min Suk Song, Jasmina Isaković, Ivan Alajbeg, Dinko Mitrečić

PP5. PRESENCE OF GUANYLATE CYCLASE C IN THE HUMAN BRAIN

Martina Ratko, **Vladiana Crljen,** Martina Tkalčić, Anton Mažuranić, Pero Bubalo, Petar Škavić, Ivan Banovac, Aleksandra Dugandžić

PP6. MOLECULAR MARKERS DELINEATE REGIONAL DIFFERENCES IN THE HUMAN FRONTAL AND OCCIPITAL CORTEX DURING THE SUBPLATE FORMATION PERIOD

Alisa Junaković Munjas, Janja Kopic, Leonarda Grandverger, Ivica Kostović, Željka Krsnik

PP7. CONDURITOL B EPOXIDE ALTERS INSULIN SIGNALING NETWORK THROUGH INSULIN LIKE GROWTH FACTOR RECEPTOR 1

Milorad Zjalić, Senka Blažetić, Barbara Viljetić, Lovro Mihajlović, Monika Berecki, Marija Heffer

PP8. SEX-SPECIFIC RESPONSE TO KETOGENIC DIET IN C57BL/6N MICE

Lovro Mihajlović, Barbara Viljetić, Darija Balonek-Nikolić, Marija Heffer, Vedrana Ivić

PP9. PHOSPHORYLATED TAU PROTEIN EXPRESSION FOLLOWING INOCULATION OF HUMAN TAU OLIGOMERS AND SYNTHETIC TAU FIBRILS INTO THE RAT MEDIAL ENTORHINAL CORTEX

Lea Langer Horvat, Goran Šimić

PP10. EFFECT OF FETAL BOVINE SERUM OR BASIC FIBROBLAST GROWTH FACTOR ON TUBB3 AND SOX2 PROTEIN EXPRESSION IN NEURAL STEM CELLS: THE INFLUENCE OF HOMOCYSTEINE TREATMENT

Dražen Juraj Petrović, Dinko Mitrečić

PP11. GLUCOSE-DEPRIVED CELLS RETAIN THE ABILITY TO MEDIATE PROTEIN QUALITY CONTROL VIA SELECTIVE DEGRADATION OF MISFOLDED PROTEINS

Mihaela Pravica, Dina Franić, Klara Zubčić, Antonio Bedalov, Mirta Boban

PP12. NEUROTOXIC EFFECT OF MYRICITRIN IN COPPER-INDUCED OXIDATIVE STRESS

Antonio Krstajić-Galić, Ignacija Vlašić, Maja Jazvinščak Jembrek

PP13. THE POSSIBLE ROLE OF BRADYKININ RECEPTOR TYPE 2 IN CEREBRAL GLUCOSE METABOLISM

Marta Pongrac, Marina Dobrivojević Radmilović

PP14. TEMPORAL IMPACT OF MPTP-INDUCED DOPAMINERGIC DYSFUNCTION ON LOCOMOTION AND DOPAMINE LEVELS IN A MOUSE MODEL OF PARKINSON'S DISEASE

Gemma Deegan, Katarina Ilić, Diana Cash, Ivana Rosenzweig

PP15. THE EFFECT OF TAU PROTEIN EXPRESSION ON NEUROLIGIN-1-MEDIATED SYNAPTIC PLASTICITY IN A CELL MODEL OF ALZHEIMER'S DISEASE

Kamelija Horvatović, Satabdee Mohapatra, Lisa Diez, Susanne Wegmann

PP16. STEREOSPECIFIC EFFECT OF P4 INHIBITORS: DISRUPTION IN GANGLIOSIDES SYNTHESIS SHIFTS GM1 GANGLIOSIDES AND IGF1 RECEPTOR FROM LIPID RAFTS IN HUMAN NEUROBLASTOMA CELLS SH-SY5Y

Milorad Zjalić, Marianna Pap, Senka Blažetić, Monika Berecki, Marija Heffer

PP17. TISSUE CLEARING PROCEDURES FOR PREPARING TRANSPARENT BRAIN SECTIONS AND VISUALIZATION OF FLUORESCENT STRUCTURES WITH VARIOUS TECHNIQUES INCLUDING LIGHT SHEET AND CONFOCAL MICROSCOPY

Dominik Hamer, Daniela Petrinc, Srećko Gajović

PP18. THE EFFECTS OF METHYLPHENIDATE ON COGNITION AND HOME-CAGE LOCOMOTOR ACTIVITY IN A RAT MODEL OF SPORADIC ALZHEIMER'S DISEASE

Davor Virag, Jan Homolak, Ana Babić Perhoč, Ana Knezović, Jelena Osmanović Barilar, Melita Šalković-Petrišić

PP19. LIGHT SHEET FLUORESCENCE MICROSCOPY REVEALS THE SPATIAL ARRANGEMENTS OF THE NEURONS AND BLOOD VESSELS IN THE MOUSE BRAIN

Daniela Petrinc, Dominik Hamer, Srećko Gajović

PP20. GLYCANS AND NEURODEGENERATION

Mario Špoljarić, Ante Vuksan, Zdravka Krivdić Dupan, Darija Šnajder Mujkić, Silva Guljaš, Ana Poturak, Marija Heffer, Julija Jurić, Gordan Lauc, Zara Miočić, Petra Galić, Svetlana Tomić

10.30-10.45 Coffee and refreshments

10.45 POSTER PRESENTATIONS II (3-min oral presentations)

10.45-13.00 Poster presentations according to schedule

Chairs: Svjetlana Kalanj Bognar, Kristina Mlinac Jerković, Senka Blažetić

PP21. RARE CASE OF GORDON HOLMES SYNDROME: A CASE REPORT

Mario Špoljarić, Zdravka Krivdić Dupan, Ružica Palić Kramarić, Silva Guljaš, Zara Miočić, Petra Galić, Svetlana Tomić

PP22. CASE REPORT: OPTIC NEUROPATHY IN PATIENT WITH DEPRESSION TREATED WITH ANTIDEPRESSANTS

Lucija Vojvodić, Marija Bošković

PP23. CONSERVATIVE MANAGEMENT OF SIGNIFICANT SUPRATENTORIAL EPIDURAL HEMATOMA IN A CHILD: A CASE REPORT

Ines Trninić, Lucija Vojvodić

PP24. NEW POSSIBILITIES IN TREATING POSTPARTUM DEPRESSION

Ana Papić, Nives Kerner, Ivana Todorić Laidlaw, Miroslav Herceg

PP25. HIGH LEVELS OF ANXIETY, DEPRESSION AND STRESS SYMPTOMS AMONG STUDENTS AFTER THE COVID-19 PANDEMIC

Stipe Vidović, Petar Šušnjara, Mihael Kolar, Vedrana Ivić, Irena Labak, Ines Drenjančević, Marija Heffer

PP26. EXOPHYTIC CAVERNOMA OF THE PONS – A CASE REPORT

Zara Miočić, Petra Galić, Mario Špoljarić, Marko Kovačević

PP27. WHICH DISRUPTS SEXUAL FUNCTION MORE - DISEASE OR MEDICINES?

Adela Klemenčić, Kristina Brozić, Marija Štracak, Ivana Todorić Laidlaw

PP28. ADULT-ONSET ADHD

Kristina Brozić, Ivana Todorić Laidlaw

PP29. PREVALENCE OF LIPIDOMIC CHANGES AMONG PATIENTS TREATED AT THE PSYCHIATRY CLINIC IN OSIJEK

Andrijana Šantić, Ivana Jelinčić, Marta Balog, Željka Korade, Karoly Mirnics, Marija Heffer, Dunja Degmečić

PP30. cBIOPORTAL IN SILICO ANALYSIS REVEALED MARKERS OF EPITHELIAL-TO-MESENCHYMAL TRANSITION IN GLIOMAS

Željko Škripek, Anja Kafka, Anja Bukovac, Tatjana Cicvara-Pećina, **Nives Pećina-Šlaus**

PP31. WHAT ARE WE MISSING WITH GLIOBLASTOMA – A METABOLIC PERSPECTIVE

Alen Rončević, Nenad Koruga

PP32. CORRELATION OF SPHINGOID BASES CONTENT IN GLIOMAS WITH DIFFERENT PROLIFERATIVE INDEX

Mia Jurilj Sajko, Ivana Karmelić, Hasan Muharemović, Tomislav Sajko, Luka Bočkor, Krešimir Rotim, Dragana Fabris

PP33. COLLABORATIVE EFFECT OF NOTCH1, NOTCH2 AND BETA-CATENIN IN MENINGIOMA PROGRESSION

Anja Bukovac, Božana Blažević, Matea Katić, Anja Kafka, Fran Dumančić, Danko Müller, Marina Raguž, Antonia Jakovčević, Niko Njirić, Nives Pećina-Šlaus

PP34. EXPRESSION OF AGGREGAN IN THE ADULT HUMAN PREFRONTAL CORTEX

Matija Vid Prkačin, Maura Zanze Beader, Mislav Čavka, Mihaela Bobić-Rasonja, Zdravko Petanjek, Ivan Banovac, Nataša Jovanov Milošević

PP35. MORPHOMETRIC ANALYSIS OF GABAERGIC INTERNEURON POPULATIONS IN THE HUMAN PREFRONTAL CORTEX

Ivan Banovac, Dora Sedmak, Ana Hladnik, Zdravko Petanjek

PP36. REORGANIZATION OF THE CORTICAL STRUCTURE IN THE RAT BRAIN AFTER MILD PERINATAL HYPOXIA: HISTOLOGICAL AND *IN VIVO* MRI MULTIMODAL STUDY

Matea Drlje, Sara Trnski, Andrija Štajduhar, Mihaela Bobić-Rasonja, Davide di Censo, Eugene Kim, Eilidh MacNicol, Katarina Ilić, Diana Cash, Siniša Škokić, Nataša Jovanov Milošević

PP37. INVESTIGATING EEG PATTERNS AND BRAIN DYNAMICS DURING PHYSICS PROBLEM SOLVING

Sandro Radan, Giovanni Vecchiato, Krešimir Friganović, Fabio Babiloni, Mario Cifrek, Ana Sušac

PP38. MEASURING OXYTOCIN IN A SPORT CONTEXT - SYSTEMATIC LITERATURE REVIEW

Péter Szabó, Sara Bonet, Roland Hetényi, Dániel Hanna, Szimonetta Lohner, Zsófia Kovács, Gyöngyvér Prisztóka, József Szentpéteri

PP39. STUDY OF CENTRAL NERVOUS SYSTEM DEVELOPMENT IN PRESCHOOL-AGED CHILDREN WITH OR WITHOUT SNI OR BTM STATUS USING JUDO SPORT

Zuzana Križalkovičová, Alexandra Makai, József L. Szentpéteri

PP40. THE RELATIONSHIP BETWEEN DIGITAL MEDIA USAGE AND BURNOUT SYNDROME IN MEDICAL STUDENTS

Samantha Franić, Ivana Pavlinac Dodig, Linda Lušić Kalcina, Renata Pecotić, Maja Valić, Zoran Đogaš

PP41. SCREENING TESTS FOR OBSTRUCTIVE SLEEP APNEA

Marta Mikecin, Ivana Pavlinac Dodig, Linda Lušić Kalcina, Renata Pecotić, Natalija Ivković, Maja Valić, Zoran Đogaš

PP42. THE ASSOCIATION BETWEEN SOCIAL MEDIA USE AND SLEEP QUALITY IN MEDICAL STUDENTS

Dora Lojpur, Ivana Pavlinac Dodig, Linda Lušić Kalcina, Renata Pecotić, Maja Valić, Zoran Đogaš

PP43. DREAMS OF BLIND PEOPLE: A GRAPH THEORY APPROACH STUDY

Olga Ivanenko, Kausar Raheel, Nazanin Biabani, Veronika Munday, Ivana Rosenzweig

PP44. ESTIMATION OF SLEEP QUALITY AND SLEEP ARCHITECTURE IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA

Lara Veldić, Linda Lušić Kalcina, Ivana Pavlinac Dodig, Renata Pecotić, Maja Valić, Zoran Đogaš

PP45. THE ASSOCIATION OF THE METABOLIC SYNDROME WITH THE WHOLE-NIGHT POLYSOMNOGRAPHY/POLYGRAPHY FINDINGS IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA

Barbara Bojčić, Ivana Pavlinac Dodig, Linda Lušić Kalcina, Renata Pecotić, Maja Valić, Zoran Đogaš

PP46. HOMOIŌMA IN DREAMS OF CONGENITALLY BLIND

Jungwoo Kang, Rita Bertani, **Kausar Raheel**, Matthew Soteriou, Jan Rosenzweig, Antonio Valentin, Peter J. Goadsby, Masoud Tahmasian, Rosalyn Moran, Katarina Ilić, Adam Ockelford, Ivana Rosenzweig

PP47. MEDICATION USE IN OBSTRUCTIVE SLEEP APNEA PATIENTS

Marija Roso, Ivana Pavlinac Dodig, Linda Lušić Kalcina, Renata Pecotić, Natalija Ivković, Maja Valić, Zoran Đogaš

PP48. FINDINGS OF FULL-NIGHT POLYSOMNOGRAPHY/POLYGRAPHY IN OVERLAP AND ALTERNATIVE OVERLAP SYNDROME

Ana Car, Ivana Pavlinac Dodig, Linda Lušić Kalcina, Renata Pecotić, Maja Valić, Zoran Đogaš

PP49. ADHERENCE TO THERAPY WITH POSITIVE AIRWAY PRESSURE IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA

Karla Milinović, Ivana Pavlinac Dodig, Natalija Ivković, Linda Lušić Kalcina, Renata Pecotić, Maja Valić, Zoran Đogaš

PP50. PROFILE OF SLEEP MACROSTRUCTURE PARAMETERS IN PATIENTS WITH PTSD AND OSA VS PATIENTS WITH OSA WITHOUT PTSD

Ana Marija Šantić, Petrana Brečić, Ivana Rosenzweig