

Center for Applied Neuroscience



University of Cyprus
Center for Applied
Neuroscience

CAN

7th Annual Scientific Conference

ADVANCES IN APPLIED NEUROSCIENCE: FROM CHILDHOOD THROUGH ADULTHOOD

October 12, 2017
University of Cyprus



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Τμήμα Ψυχολογίας



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ΛΟΓΟΠΑΘΟΛΩΝ



Σύνδεσμος Ψυχολόγων
Κύπρου

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ADVANCES IN APPLIED NEUROSCIENCE: FROM CHILDHOOD THROUGH ADULTHOOD

Workshop and Conference Program

Workshop Venue: Building 03, Room 105

9:00-10:00	Workshop: Biological and neurocognitive risk factors for developmental dyslexia (<i>Dr. Paavo H.T. Leppänen</i>)
10:00-10:30	Coffee Break (Foyer, Building 07)
10:30-12:30	Workshop: Μαθησιακές δυσκολίες και διαφορική διάγνωση (<i>Δρ. Τιμόθεος Γ. Παπαδόπουλος, Δρ. Γεώργιος Σπανούδης</i>)
12:30-13:00	Discussion and Wrap-up
13:00-14:00	Lunch break (Foyer, Building 07)

Conference Venue: Building 07, Room 010

14:00-14:20	Welcome
14:20-15:20	Scientific Lecture: Pre-cursors, reading problems, and reading development at 2-8 grades: the Jyväskylä Longitudinal Study of Dyslexia (<i>Prof. Paavo H.T. Leppänen</i>)
15:20-16:10	Scientific Lecture: Linguistic Profiling And Linguistic Interphases In Typically Developing And Late Talking Children (<i>Dr. Kakia Petinou</i>)
16:10-16:40	Coffee Break (Foyer, Building 07)
16:40-17:30	Scientific Lecture: Evidence Based Pharmacological Interventions in Epilepsy and ADHD: Implications for learning from pediatrics through adulthood (<i>Prof. Savvas Papacostas</i>)
17:30-18:15	Datablitz of accepted posters
18:15-18:30	Discussion and Wrap-up
18:30-19:00	Scientific Poster session



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Workshop (October 12, 2017)

Venue: University of Cyprus, Building 03, Room 105

Τίτλος 1: Biological and neurocognitive risk factors for developmental dyslexia (9:00-10:00)

Συντονιστής: Dr. Paavo H.T. Leppänen

Τίτλος 2: Μαθησιακές δυσκολίες και διαφορική διάγνωση (10:30-12:30)

Συντονιστές: Δρ. Τιμόθεος Γ. Παπαδόπουλος, Δρ. Γεώργιος Σπανούδης

Περίληψη εργαστηρίου: Με τον όρο μαθησιακές δυσκολίες αναφερόμαστε σε μια σειρά δυσκολιών που αφορούν στην ανάγνωση, τα μαθηματικά, τη γραφή, την προφορική γλώσσα και την προσοχή. Το παρόν εργαστήριο εστιάζεται στις αναγνωστικές δυσκολίες, την ειδική γλωσσική διαταραχή και τη διαταραχή ελλειμματικής προσοχής και υπερκινητικότητας. Οι τρεις αυτές μαθησιακές δυσκολίες παρουσιάζουν αυξημένη συχνότητα εμφάνισης στον παιδικό πληθυσμό και πιθανή συνοσηρότητα, δημιουργώντας συχνά σοβαρές δυσκολίες στη διαγνωστική διαδικασία. Το εργαστήριο αρχίζει με την κριτική εξέταση της διάγνωσης των τριών αυτών διαταραχών βασισμένης σε μαρτυρίες, συνεχίζει με τον ορισμό τους και με μια σύντομη επισκόπηση της σχετικής έρευνας και πρακτικής και κλείνει με την εξέταση της σχέσης γνωστικών και γλωσσικών παραγόντων και της πιθανής συνοσηρότητας μεταξύ αυτών των τριών κοινών μαθησιακών διαταραχών. Η πρακτική εξέταση και η συζήτηση επικεντρώνεται στη σημασία των γνωστικών και γλωσσικών προτύπων επεξεργασίας που μπορούν να βοηθήσουν στη διάκριση των διαφορετικών τύπων μαθησιακής δυσκολίας και διερευνά τρόπους ανίχνευσης, διάγνωσης και παρέμβασης που βασίζεται σε μαρτυρίες.

Μαθησιακοί στόχοι εργαστηρίου:

Με την ολοκλήρωση του εργαστηρίου αναμένεται ότι οι συμμετέχοντες :

1. Θα έχουν κατανοήσει τις γενικές αρχές αξιολόγησης των αναπτυξιακών διαταραχών στη βάση γλωσσικών και γνωστικών μετρήσεων
2. Θα έχουν κατανοήσει τα γνωστικά και γλωσσικά πρότυπα δυσκολιών που εμφανίζουν τα παιδιά με δυσλεξία συγκριτικά προς τα παιδιά με ειδική γλωσσική διαταραχή ή ΔΕΠΥ.
3. Θα μπορούν να αξιολογήσουν διαφοροδιαγνωστικά τις τρεις αναπτυξιακές διαταραχές.
4. Θα έχουν κατανοήσει τις γενικές αρχές των παρεμβατικών προγραμμάτων βασισμένων σε μαρτυρίες
5. Θα είναι σε θέση να διαμορφώσουν ένα παρεμβατικό πρόγραμμα βασισμένο σε μαρτυρίες για καθεμιά από τις τρεις διαταραχές.

Σημείωση: Η παρουσίαση του Dr. Paavo H.T. Leppänen θα γίνει στην Αγγλική γλώσσα



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Detailed Conference Program (October 12, 2017)

Venue: University of Cyprus, Building 07, Room 010

14:00-14:20	Prof. Athanasios Gagatsis (Vice-Rector for Academic Affairs, University of Cyprus) Prof. Savvas Katsikides (Dean of Faculty of Social Sciences and Education) Prof. Fofi Constantinidou (Professor, Department of Psychology, University of Cyprus, Director, Center for Applied Neuroscience)	Welcome
14:20-15:20	Prof. Paavo H.T. Leppänen (Professor, Vice Head of the Department of Psychology, University of Jyväskylä)	Pre-cursors, reading problems, and reading development at 2-8 grades: the Jyväskylä Longitudinal Study of Dyslexia
15:20-16:10	Dr. Kakia Petinou (Associate Professor, School of Health Sciences, Department of Rehabilitation Sciences)	Linguistic Profiling And Linguistic Interphases In Typically Developing And Late Talking Children
16:10-16:40	Coffee Break	
16:40-17:30	Prof. Savvas Papacostas (Neurologist and Professor of Neuroscience at the Cyprus School of Molecular Medicine of the Cyprus Institute of Neurology & Genetics)	Evidence Based Pharmacological Interventions in Epilepsy and ADHD: Implications for learning from pediatrics through adulthood



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Prof. Paavo H.T. Leppänen

Title:

Pre-cursors, reading problems, and reading development at 2-8 grades: the Jyväskylä Longitudinal Study of Dyslexia

Abstract:

Dyslexia is an inherent neurological disorder unexpectedly impairing learning to read. In Jyväskylä Longitudinal Study of Dyslexia (JLD) we have followed about 200 children at risk for familial dyslexia. Here I present an overview of the key findings on cognitive risk factors/ pre-cursors for dyslexia and reading development from Grade 2 to Grade 8. Our results show, that while well-known cognitive skills at pre-school age associated with reading development, including phonological processing, rapid automatic naming and verbal short term memory, predict later reading, there are individually different pathways leading to poor reading accuracy and reading fluency. Our findings also show, in line with several studies, that slow reading is the major obstacle in reading development in transparent orthographies like Greek or Finnish. Dyslexic readers are not capable to utilize the benefit of familiarity of learned words. At the 8 grade they lag behind considerably in reading speed remaining at the 3 grade level. The findings are discussed from the viewpoint of multiple risk factors contributing to developmental dyslexia.

Professor Paavo H.T. Leppänen, PhD, is Professor of psychology and dyslexia research at the Department of Psychology at University of Jyväskylä (JYU), the head of the EEG and behavioral cognitive psychology laboratories of Department of Psychology (JYU), and the chair of the executive team of Research Forum of Learning Difficulties (ForLearning, JYU). His research focuses on developmental cognitive neuroscience and his research themes include e- and online reading (with web-based, behavioral, eye-tracking and brain response measures), dyslexia, language difficulties, and problems in foreign/ second language learning, their risk factors and neurocognitive processes of reading.



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Dr. Kakia Petinou

Title:

Linguistic Profiling And Linguistic Interphases In Typically Developing And Late Talking Children

Abstract:

Identifying early language delay is seminal because late talking toddlers are usually at risk for chronic language impairment and academic challenges. In the current presentation the authors discuss findings from a longitudinal cohort investigation related to linguistic profiling of late talking (LT) subjects and their typically developing (TD) peers. Language measures focused on semantic profiling, linguistic predictors and linguistic interphases as these emerged from a series of analyses including: (a) group mean comparisons as a function of age level between LTs and TDs, (b) regression analyses in identifying predictive factors across age levels in LTs and (c) concurrent and diachronic correlations between lexical, phonological and grammatical parameters. Overall, the two groups differed significantly on all linguistic parameters favoring the TD subjects. LT subjects remained significantly delayed on all language skills with a robust profile in the form of persistent phonological delay. The presentation will conclude with preliminary data on phonological representations of LT using Event Related Potentials (ERPs) through a passive oddball EEG experiment paradigm including two- and three-syllable pseudo-words demonstrating the electrophysiological underpinnings of phonological representations in LT.

Dr. Kakia Petinou is an Associate Professor and Head of the Department of Rehabilitation Sciences at the Technological University Cyprus. She holds a PhD from City University of New York Graduate Center, NY, USA in the field of Speech and Hearing Sciences. She has published her research in various scientific journals and has participated in international congresses. Her research focuses on typical and atypical language development of toddlers with a focus on late talking outcomes, early speech correlates of developmental apraxia of speech, phonological and semantic interface, and clinical practices in ASD across the world.



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Prof. Savvas Papacostas

Title:

Evidence Based Pharmacological Interventions in Epilepsy and ADHD: Implications for learning from pediatrics through adulthood

Abstract:

Cognitive problems in persons with epilepsy manifest over a lifetime likely as a result of comorbid brain substrate, the epilepsy itself or its underlying etiology, medications, or a combination of these and other factors. There is a need for improved therapies to control seizures and reduce the incidence of adverse events, especially those involving the central nervous system that compromise attention, intelligence, language skills, verbal and nonverbal memory, executive function, and psychomotor speeds. This approach must ensure control of seizures and preservation of as much function as possible throughout their lives. Similarly, ADHD is associated with significant impairment across the lifespan. Stimulant medications are important in its management along with non-medical therapies. Medications have a high response rate and improve the core symptoms of the disorder, but they are associated with side effects. Therefore treatment decisions should be based upon informed patient preferences and treatment responses observed during the titration period, along with nonmedical interventions to ensure as normal development as possible.

Professor Savvas Papacostas is a Neurologist and Professor of Neuroscience at the Cyprus School of Molecular Medicine of the Cyprus Institute of Neurology & Genetics, specializing in Epilepsy and Behavioral Neurology. He directs the Clinical Neurophysiology and Neurobiology Laboratories providing diagnostic services for the function of central and peripheral nervous system and basic research on animal models of Alzheimer's disease and genetics of epilepsy. His main research interests include epilepsy, aging, dementia, electroencephalography, and neurophysiology of the central nervous system. He obtained a medical degree from Ohio University, specialized in Neurology at the University of Rochester, New York, and worked as a post-doctoral fellow at the Columbia Presbyterian Medical Center, Columbia University, New York. He has publications in the area of his interests and is actively involved in teaching and research.



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Scientific Posters

#	Authors	Title
1	Constantinidou, F., Chadjikyprianou, A., & Mathaiou, H.	The long term effects of sensory loss on cognitive performance in adulthood: Preliminary findings from the NEUROAGE project
2	Demetriou, A.C., Fanti, A.K., Andershed, H., & Colins, F.O.	The construct of psychopathic personality in early childhood: The Child Problematic Traits Inventory
3	Eleftheriou, A., & Constantinidou, F.	Comparison between teenagers and young adults about memory ability
4	Gabriel, C., Pantelides, S., & Avraamides, M.	Integrating spatial memories encoded through haptics and language.
5	Gerou, S., Pantelides, N.S., & Avraamides N.M.	Integrating spatial information encoded from external viewpoints
6	Kokkinou, M., Constantinidou, F., Kyprianou, T., & Kyriakides, E.	Epidemiology of Moderate to Severe TBI in Cyprus
7	Kouloumou, T., Metaxas, G., & Christodoulou, S.	Ψυχομετρικές Ιδιότητες του Εργαλείου Αξιολόγησης Αναγκών Φροντίδας
8*	Lombardo, M. V., et al.	Sex-specific fetal programming impact of testosterone on later developing intrinsic functional connectivity between social brain default mode subsystems
9*	Michaelides, S.C., & Avraamides N.M.	Developmental changes in the mental transformation of spatial arrays
10*	Mikellidou, K., Arrighi, R., Aghakhanyan, G., Tinelli, F., Frijia, F., Crespi, S., De Masi, F., Montanaro, D., & Concetta Morrone, M.	Plasticity of the human visual brain after early cortical lesion

* *Datablitz Presentation*



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#	Authors	Title
11	Pagkratidou, M., Hatzipanayioti, A., & Avraamides N.M.	Spatial representations for familiar and unfamiliar environments
12*	Pettemeridou, E., & Constantinidou, F.	Volumetric differences in Executive Functioning and Self-awareness in chronic moderate-to-severe
13	Photiou, Ph. M., Ferraco, T., & Avraamides N.M.	Spatial Updating During Abrupt Passive Movement
14*	Plastira, N.M., & Avraamides N.M.	How the speed of speech influences time perception
15*	Prokopiou, J., Michaelides, M., & Constantinidou, F.	Leisure Activities, Occupation and Coping on Cognitive Reserve and Cognitive Performance across the lifespan within a sample of Greek-Cypriot older adults.
16*	Shoshilou, P. , Neocleous, A. , Spanoudis, G., & Costantinidou, F.	Humor discrimination electrophysiological counterparts in young and older adults
17	Souroulla Kay F., & Stavriniades, P.	Integrating Theories of Sexual Violence: Incorporating the Clinical Symptoms of the Pathway Model into the Confluence Model. A Preliminary Study
18	Yiallouri, L., & Papadopoulos, T. C.	Cognitive and Linguistic Factors as Predictors of Reading Comprehension in Young Adults
19*	Zarouna, C.	Investigating developmental changes and the influence of trait anxiety in facial emotion perception of threat related stimuli in adolescents and young adults

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