Preliminary Scientific Programme, SIG22 Neuroscience and Education

Poster Session C – Saturday June 25th 10.15-11.30

(NOTE: only presenters are listed here. The program book will list all co-authors.)

1. **The Ability to Concatenate Quantities: The Missing Link between Number Line Judgment and Math Problem Solving Abilities?**
   Robert Reeve, University of Melbourne, Australia

2. **Memory Consolidation and Neurofeedback: Self-Regulation of Brain Oscillations Enhances Speed and Relative Accuracy of Performance**
   Miriam Reiner, Technion, Israel Inst. of Tech, Israel

3. **A Potential Framework for Educational Neuroscience Research: Example of the Underpinning Mechanism of Learning in 2D vs Stereoscopic 3D Virtual Worlds**
   Miriam Reiner, Technion, Israel Inst. of Tech, Israel

4. **Does Non-symbolic Comparison Reflect Numerical Processing or Inhibition? Results from a Training Study with tDCS**
   Delphine Sasanguie, Brain & Cognition, KU Leuven, Belgium

5. **Text-picture Integration During Learning - EEG Frequency Band Power Correlates of Congruency Effects**
   Christian Scharinger, Leibniz-Institut für Wissensmedien, Tübingen, Germany

6. **Brain Response to Arithmetic Errors is Modulated by Individual Differences in Mathematical Competence in the Inferior Frontal Gyrus (IFG)**
   Frieder Schillinger, University of Graz, Austria

7. **Caught in a Web of Expectations and Concerns: The Complexity of Issues that Arise from the Availability and Education-Related Use of TES-Based Cognitive Enhancers**
   Jantien Schuijer, Vrije Universiteit van Amsterdam, The Netherlands

8. **Lexical and Multiplication Decisions: Effect of General Giftedness**
   Shelley Shaul, University of Haifa, Israel

9. **Developmental changes in the Neural Correlates of Symbolic Number Processing: A Functional Neuroimaging Meta-Analysis**
   Moriah Sokolowski, University of Western Ontario, Canada

10. **Children Learn Arithmetic Differently Than Adults: Evidence from Simultaneous fNIRS-EEG Study**
    Mojtaba Soltanlou, IMPRS for Cognitive and Systems Neuroscience, Tuebingen, Germany

11. **Reliability and Validity of Numerical and Non-numerical Ordinality Processing, and its Relationship to Arithmetic Fluency**
    Melanie *Spindler, Institute of Psychology, University of Graz, Austria*

12. **Relations Between Teacher's Perception of Nature-Nurture Question, Neuromyths, and Metaphorical Conception of Teaching Students with Learning Disorders**
    Simona Tancig, University of Ljubljana, Faculty of Education, Slovenia

13. **Translation of Research Knowledge in Neuroscience into Improvement of Teaching and Learning: A Case Study on Teaching a Course in Neuropedagogy**
    Ariela *Teichman-Weinberg, Achva Academic College, Israel*

14. **Characterising Mathematics Anxiety Experienced Solving Algebra Problems**
    Kelly *Trezise, University of Melbourne, Australia*

15. **The Influence of Reading Problems on Basic Numerical Processing in Children with and without Math Difficulties**
    Anniek *Vaessen, Regional Institute for Dyslexia & Maastricht University, The Netherlands*

16. **Incorporating Children's Everyday Context in the Reading the Mind in the Eyes test**
    Anna van der Meulen, Vrije Universiteit Amsterdam FGB Educational Neuroscience, The Netherlands

17. **Electrophysiological Correlates of Symbolic and Non-symbolic Numerosity Processing in Adults and Children**
    Anne van Hoogmoed, Utrecht University, The Netherlands

18. **Dynamic Scaffolding: How Child-Directed Actions Influence Children's Learning**
    Johanna van Schaik, Donders Institute, Radboud University Nijmegen, The Netherlands

19. **Symbolic Magnitude Processing is as Important to Arithmetic Development as Phonological Awareness is to Reading**
    Kiran Vanbinst, KU Leuven, Belgium

20. **Special Education Neuroscience Literacy Amongst Prospective Teachers**
    Filippos Vlachos, University of Thessaly, Dept. of Special Education, Greece

21. **The Neural Representation of Symbolic Numbers: Investigations with fMRI Adaptation**
    Stephan Vogel, Educational Neuroscience, Institute of Psychology, University of Graz, Austria

22. **Numerical magnitude processing, working memory and mathematical skills in children with Developmental Coordination Disorder**
    Chiel Volman, Utrecht University, The Netherlands

23. **Predicting Arithmetic with the Processing of Order Sequences of Digits, Letters and Months**
    Helene Vos, KU Leuven, Belgium

24. **Does the Development of Digital Skills Influence the Development of Basic Numerical Skills in Children from Three to Four Years Old ?**
    Line Vossius, University of Liège, Belgium

25. **Brain Activation Differences in Oddball Tasks: An ERP Study**
    Ilana Waisman, University of Haifa, Israel

26. **Differential Dynamics of Episodic and Semantic Memory Consolidation During Sleep in Children and Adults**
    Jing-Yi Wang, Institute of Medical Psychology, Tuebingen, Germany

27. **Altered Patterns of Directed Electrophysiological Connectivity Within the Reading Network of Dyslexic Children and their Relation to Reading Dysfluency**
    Gojko Zaric, Maastricht University, The Netherlands