

LaP 2023 Programme

Sunday, April 2

19:00-20:00 **Welcome reception and registration at Äkäshotelli (Yläbaari)**

Monday, April 3

13:30-14:00 **Registration at Äkäshotelli (Auditorium)**

14:00-14:10 **Opening words**

Matti Laine & Minna Lehtonen

14:10-15:10 **Keynote Lecture**

Matt Lambon Ralph: The cognitive and neural bases of aphasia, its partial recovery and treatment

15:10-15:40 *Coffee break 30 min*

15:40-17:50 **Symposium 1 – Aphasia research in 2023 – Translational research, evidence from clinical trials and pandemic challenges**

Organizer: Marcus Meinzer

15:40-16:10 *Antoni Rodriguez-Fornells & Claudia Peñaloza:* The potential benefits of new word learning in the recovery of language functions after stroke

16:10-16:40 *Caterina Breitenstein:* Effectiveness of intensive aphasia interventions after stroke: When, how much and for whom?

16:40-16:50 *Short break*

16:50-17:20 *Agnes Flöel:* Non-invasive brain stimulation for rehabilitation of language functions after stroke

17:20-17:50 *Nina Unger:* DC_TRAIN_APHASIA – Implementation of a large multicentric aphasia study in Germany under pandemic conditions

17:50-19:20 **Poster session 1 (Äkäskabinetti)**

Tijana Simic, Elizabeth Rochon, Laura Laird, Rudra Patel, & Carol Leonard: Quantifying naming improvements after

phonological treatment for anomia using computational modelling of speech error data

Tammar Truzman, Michal Biran, Eugene Soikher, Nachum Soroker, Tamar Levy, Swathi Kiran, & Tali Bitan:

Morphology-based treatment for Hebrew speaking individuals with aphasia

Maria Peltonen, Kati Renvall, Pietari Nurmi, Heidi Ala-Salomäki, Mia Liljeström, Riitta Salmelin, & Hanna Renvall:

Auditory cortical responses to natural sounds in chronic post-stroke aphasia

Ida Luotonen, Tanja Makkonen, Kati Renvall, & Pirjo

Korpilahti: Are semantic tasks needed in the assessment of stroke aphasia?

Laura Ordonez Magro, Joël Fagot, Jonathan Grainger, & Arnaud Rey: The Hebb Repetition Effect in baboons

Steffen Riemann, Jil van Lück, Antoni Rodriguez Fornells, Agnes Flöel, & Marcus Meinzer: Electrical brain stimulation during learning novel words from contextual information: brain regional specificity and timing effects

Tuesday, April 4

13:00-14:30

Symposium 2 – Plasticity in the recovery from aphasia
Organizer: Tali Bitan

13:00-13:30

Tijana Simic & Elizabeth Rochon: Factors that promote recovery and learning in treatment for aphasia

13:30-14:00

Jenny Crinion: Language recovery: brain networks and aphasia rehabilitation in the chronic stage post stroke

14:00-14:30

Tali Bitan: What functional connectivity can teach us about brain plasticity in aphasia recovery

14:30-16:00

Poster Session 2 (Äkäskabinetti) and coffee

Noelia Martínez-Molina, Sini-Tuuli Siponkoski, Anni Pitkäniemi, Nella Moisseinen, Linda Kuusela, Johanna Pekkola, Emmi Pentikäinen, Sari Laitinen, Essi-Reetta Särkämö, Boris Kleber, Gottfried Schlaug, Aleksi J Sihvonen, & Teppo Särkämö: Learning of novel song lyrics in chronic

post-stroke aphasia: Behavioral and functional neuroimaging evidence

Lotta Ahveninen, Ilja Salakka, Anni Pitkäniemi, Aleksi Sihvonen, & Teppo Särkämö: Optimizing music interventions in dementia care: Research plan for a PhD thesis

Ilja Salakka, Anni Pitkäniemi, Emmi Pentikäinen, Pasi Saari, Petri Toivainen, & Teppo Särkämö: Emotional, musical and memory factors predict the subjective autobiographical saliency of music

Matti Laine, Jussi Jylkkä, Liisa Ritakallio, Tilda Eräste, Suvi Kangas, Alexandra Hering, Sascha Zuber, Matthias Kliegel, Daniel Fellman, & Juha Salmi: Spontaneous memory strategies in a videogame simulating everyday prospective memory tasks

Emmi Pentikäinen, Anni Pitkäniemi, Lilli Kimppa, Tommi Makkonen, Ilja Salakka, Petri Paavilainen, Mari Tervaniemi, & Teppo Särkämö: The effects of choir-singing on cortical auditory processing, cognition and well-being in healthy older adults

Viivi Kanerva & Henry Railo: Experimental paradigm for measuring metacognitive awareness of self-produced speech

Liya Merzon, Tilda Eräste, Erik Seesjärvi, Jussi Jylkkä, Hanna Huhdanpää, Eeva Aronen, Minna Mannerkoski, Liisa Ritakallio, Matti Laine, & Juha Salmi: Spontaneous fluctuations of attention during naturalistic goal-directed behavior in ADHD

16:00-18:10

Symposium 3 – Going beyond the classic left-hemispheric language functions: Music, singing and bilaterality in aphasia rehabilitation

Organizer: Teppo Särkämö

16:00-16:30

Sonia Brownsett: Recovery of language after stroke - moving beyond Broca and Wernicke

16:30-17:00

Alexi J. Sihvonen: Music listening as a cognitive, verbal and neural rehabilitation tool for stroke and aphasia

17:00-17:10

Short break

17:10-17:40

Anni Pitkäniemi: Neural correlates of spoken language and singing production in aphasia

17:40-18:10	<i>Teppo Särkämö</i> : Singing as a verbal, socioemotional and neural rehabilitation tool in aphasia
19:00-	Social Program

Wednesday, April 5

9:15-11:00	Symposium 4 – Children’s speech and language development in Finnish cohort studies <i>Organizer: Elina Mainela-Arnold</i>
9:15-9:20	<i>Elina Mainela-Arnold</i> : Introduction
9:20-9:30	<i>Essi Vastamäki & FinnBrain Team</i> : Developmental language profiles from 14 months to 5 years of age in the FinnBrain Birth Cohort Study
9:30-9:40	<i>Denise Ollas-Skogster & FinnBrain Team</i> : Mother’s emotional availability predicts toddler language emergence at 14 months in the FinnBrain Cohort study
9:40-9:50	<i>Kiia Kurila, Pihla Saaristo & FinnBrain Team</i> : Cortical and subcortical grey matter volumes as predictors of mean length of utterance at 5 years of age in the FinnBrain Birth Cohort study
9:50-10:00	<i>Anna Kautto, Henry Railo & Elina Mainela-Arnold</i> : Better language abilities are associated with stronger ERP amplitudes to sine wave stimuli in school age children
10:00-10:10	<i>Aura Yli-Savola & FinnBrain Team</i> : Do early temperament traits predict speech fluency at age 5 yrs in the FinnBrain Birth Cohort study?
10:10-10:20	Short break
10:20-10:50	<i>Ariane Tretow, Paavo Leppänen, & JLD Team</i> : Early brain responses and environmental effects on the readers’ mind and eye from childhood to adulthood
10:50-11:00	Wrap-up and discussion
11:00-12:30	<i>Lunch break (on your own)</i>
12:30-14:00	Poster session 3 (Äkäskabinetti) and coffee <i>Sari Ylinen, Emma Suppanen, Istvan Winkler, & Teija Kujala</i> : Newborn infants show predictive inference of syllables in word-like items

Luke Wilsdon, Maria Uther, Darren Chadwick, & Anastasia Giannakopoulou: Smart reading: Developing reading skills using a game-based app in children

Cathy Hauspie, Wouter Duyck, Mark Janse, & Arnaud Szmalec: The transfer effects of the study of Latin on language competence and cognition: a study in Flemish secondary education

Raymond Bertram, Rosa Salmela, Tiina Manninen, & Minna Lehtonen: Assessment of vocabulary knowledge in Finnish

Chloé Parmentier, Morgane Simonis, Luk Van Mensel, Philippe Hiligsmann, Benoît Galand, Nathalie Lefèvre, Laura Ordonez Magro, & Arnaud Szmalec: Language proficiency and study achievement of dyslexic children enrolled in immersion education

14:00-15:30

Symposium 5 – Bilingualism and acquired disorders: language recovery, treatment, and control

Organizer: Minna Lehtonen

14:00-14:30

Claudia Peñaloza: Lexical access in bilingual aphasia: A computational modeling approach to impairment and treatment-induced recovery

14:30-15:00

Arnaud Szmalec: Lexical processing and cognitive control in patients with parallel and differential bilingual aphasia

15:00-15:30

Marco Calabria: Language control in bilinguals with neurodegenerative diseases

15:30-15:40

Closing the meeting