

Science of Aphasia XX, Rome, September 23-26, 2019

The temporal lobe revisited: Neural and Functional updates

PROGRAM

Monday 23 September

9.00 – 12.00 Invited talks: **Anatomical and functional overview**

Marco Catani (NatBrainLab, King's College, London, UK)

David Poeppel (Max-Planck-Institut für empirische Aesthetik, Frankfurt, Germany)

12.00 – 13.00 Lunch

13.00 – 15.00 Oral presentations 1

1. **Joanna Sierpowska**, Katherine L. Bryant, Manon Römkens, Margot Mangnus, Nikki Janssen, Roy Kessels, Ardi Roelofs, Rogier Mars & Vitoria Piai - The functional neuroanatomy of the left temporal lobe white matter – an interdisciplinary approach based on intraoperative and comparative studies
2. **Jun Soo Noh**, Sekwang Lee, Yoonhye Na, Minjae Cho, Yu Mi Hwang, Woo-Suk Tae & Sung-Bom Pyun - The Role of Arcuate Fasciculus on Severity of Language Impairments in Subcortical Stroke Patients
3. **Ileana Camerino**, Joanna Sierpowska, Nathalie Meyer, Anil Tuladhar, Roy Kessels, Frank-Erik de Leeuw & Vitória Piai - White-matter bottleneck in small vessel disease: A lesion-symptom mapping study of executive-language functions
4. **Nikki Janssen**, Margot Mangnus, Ardi Roelofs, Joanna Sierpowska, Roy Kessels, Vitória Piai - The role of the uncinata fasciculus and inferior longitudinal fasciculus in healthy and disordered language production
5. **Elissa Asp**, Antoine Tremblay, Graham Flick & Aaron Newman - CForests in the trees: Using conditional inference random forests on MEG data to explore 'what fires together' in a picture naming task
6. **Wei Ping Sze**, Jane Warren, Solène Hameau & Wendy Best - What are the active ingredients in anomia therapy? A random forest analysis of anomia research from 2009-2018
7. **Edith Durand**, Pierre Berroir & Ana Inés Ansaldo - Neural substrates associated with the recovery of verb anomia: the role of sensorimotor strategies in the improvement of naming abilities in aphasia
8. **Sonia Montemurro**, Gonia Jarema & Sara Mondini - Lexical Frequency, Lexical Semantics in interaction with Cognitive Reserve in healthy older adults

15.00 – 15.30 Coffee

15.30 – 16.15 Flash presentations poster session 1

16:15 – 17.00 Poster session 1

1. **M. De Martino**, A. Mancuso, A. G. Russo, A. Elia, F. Di Salle, R. Saponiero, S. Vietri, F. Esposito & A. Laudanna- Inflecting regular and irregular verbs: neuroimaging and behavioural data from the three Italian conjugations
2. **Johémie Boucher**, Karine Marcotte, Amélie Brisebois, Marianne Désilets-Barnabé, Alberto Osa García, Elizabeth Rochon, Carol Leonard, Alex Desautels, Simona Brambati - Confrontation-naming and connected speech production in early post-stroke aphasia
3. **Martina Garzon** , Federica Biddau, Giorgio Arcara, Francesca Meneghello, Daniela D’Imperio, Giulia Bencini - Investigating the potential of structural priming as a form of constraint-induced language therapy in post-stroke aphasia
4. **Nour Ezzeddine** & Barbara Köpke - Adaptation of the Bilingual Aphasia Test to Lebanese Arabic
5. **Hüsnür Aslantürk**, Nurten Tiryaki & Bülent Toğram- The Experiences of Aphasia Caregivers In Turkey
6. **Bülent Toğram** - Public Awareness of Aphasia in Turkey
7. **Svetlana Malyutina**, Yulia Akinina & Valeriya Zelenkova - The subject-object-verb word order as a self-cueing strategy in aphasia: An exploratory study
8. **Giulia Krethlow**, Grégoire Python & Marina Laganaro - Differences in semantic priming during lifespan and in aphasia
9. Brisotto, C., Biddau, F. & **Nordio, S.** - Speech and language therapy for acquired dysgraphia in neurological patients: a systematic review
10. **Sabrina Beber**, Rita Capasso & Gabriele Miceli - Neurofunctional correlates of auditory and visual sentence comprehension: Evidence from aphasia
11. **Lucy Dipper**, Madeline Cruice, Jane Marshall, Nicola Botting, Mary Boyle, Deborah Hersh & Madeleine Pritchard - Characterising the Nature of Discourse Treatment in Aphasia Rehabilitation Research
12. **Ingrid Aichert**, Katharina Lehner, Simone Falk, Mona Späth, Mona Franke & Wolfram Ziegler - In Time with the Beat: Entrainment in Patients with Phonological Impairment, Apraxia of speech and Parkinson`s disease
13. **Svetlana Kuptsova**, Anastasia Ulicheva, Olga Dragoy & Maria Ivanova- Impairment of switching attention in patients with fluent aphasia and temporal lobe damage
14. **Elissa-Marie Cocquyt**, Patrick Santens, Pieter van Mierlo, Wouter Duyck, Arnaud Szmalec & Miet De Letter - Age-related differences in auditory semantic priming: the development of normative electrophysiological data in the Dutch population

Tuesday 24 September

9.00 – 12.00 Invited talks: ***Auditory and music perception***

Isabelle Peretz (University of Montréal, Canada)

Gabriele Miceli (CIMEC, University of Trento, and Centro Interdisciplinare Linceo, Rome)

12.00 – 13.00 Lunch

13.00 – 14.15 Oral presentations 2

1. **Olga Dragoy**, Ekaterina Stupina, Andrey Zyryanov, Marina Chernova, Elizaveta Gordeyeva, Natalya Gronskaya, Galina Gunenko, Sergey Chernov, Dmitry Kopachev, Igor Medyanik, Nikita Pedyash, Igor Pronin, Andrey Sitnikov, Konstantin Yashin, Andrey Zuev - ‘A moderate global aphasia’: the pattern of language deficits in acute post-surgical tumor patients

2. **Karine Marcotte**, Alberto Osa, Johémie Boucher, Bérengère Houzé, Christophe Bedetti, Amélie Brisebois, Alex Desautels & Simona Maria Brambati - Right-hemisphere density reduction in acute post-stroke aphasia
3. **Olga Buivolova**, Oxana Vinter, Roelien Bastiaanse & Olga Dragoy - Validation of the Aphasia Rapid Test in the Russian-speaking post-stroke population
4. **Yulia Akinina**, Olga Buivolova, Olga Soloukhina & Roelien Bastiaanse- Psychometric Properties of the Token Test App
5. **C. Jacquemot**, C. Schramm, L. Lemoine, K. Youssof & AC. Bachoud-Lévi - Coupling language and executive functions for premanifest and early Huntington's Disease follow up

14:15 – 14:45 Coffee

14:45 – 15:30 Flash presentations poster session 2

15:30 – 16:30 Poster session 2

1. **Svetlana Averina**, Olga Dragoy & Roelien Bastiaanse - The role of the white matter pathways in spontaneous speech in aphasia
2. **Brianne Chiappetta**, Matthew Walenski, Elena Barbieri, Aniruddh Patel & Cynthia Thompson - Musical and linguistic syntactic processing in agrammatic aphasia: An ERP study
3. **Cristina Rosazza**, Maria Gazzotti, Paolo Urso, Valentina Impagnatiello, Cinzia Crivellaro & Valeria Isella- Brain metabolic correlates of errors on picture naming in Alzheimer's Disease
4. **Ikram Methqal** & Yves Joannette- When Trade-Offs in NeuroCognitive Resources Determine Word Production Efficiency in Aging
5. **Liyana Low**, Susan Rickard Liow, Melvin Yap, Tng Siok Keng & Rebecca Heywood- Written Language in Mandarin-dominant Older Adults with Hearing Loss
6. **Roelant Ossewaarde**, Roel Jonkers & Roelien Bastiaanse - Determining the ideal length of spontaneous speech fragments for predictive analysis
7. **Xabi Ansorena**, Mireia Hernández, Manuel Carreiras, José Ignacio Quemada & Simona Mancini - Short Term Memory and sentence processing in deep dysphasia
8. **Soultana Georgiadou**, Stavroula Stavrakaki & Vasileios Kimiskidis - Language abilities in Aicardi Syndrome: A case study
9. **Cyrielle Demierre**, Grégoire Python, Bertrand Glize, Marina Laganaro - Which word planning processes require attention? Evidence from dual-task interference in aphasia
10. **Marion Bourqui**, Michaela Pernon, Cécile Fougeron, & Marina Laganaro - Contribution of acoustic analysis in the differential diagnosis of apraxia of speech
11. **Mile Vuković** & Irena Vuković - The investigation of paraphasias in speakers with fluent and non-fluent aphasia
12. **Mateusz Choiński**, Elżbieta Szelağ, Anna Bombińska & Aneta Szymaszek - Positive effects of a treatment based on temporal information processing on language and non-language cognitive functions in individuals with aphasia: a pilot study
13. **Faith Chiu** & Typhanie Prince - The production of French consonant sequences in typically developing children and in people with aphasia
14. **Antje Lorenz**, Danièle Pino, Jörg D. Jescheniak, Frank Regenbrecht, & Hellmuth Obrig - Grammatical-gender effects in noun-noun compound production: Evidence from aphasia
15. Ekaterina Delikishkina, Angelika Lingnau & **Gabriele Miceli**- Investigating the Neural Correlates of Argument Structure Processing

18.00 – 20.00 Tour

20.30 – 23.00 Dinner (Palazzo Corsini)

Wednesday 25 September

9.00 – 12.00 Invited talks: **Semantics**

Alex Martin (Section on Cognitive Neuropsychology, Laboratory of Brain and Cognition, National Institutes of Mental Health, Bethesda, MD, USA)

Costanza Papagno (CIMeC, University of Trento, and University of Milan La Bicocca, Italy)

12.00 – 13.00 Lunch

13.00 – 15.00 Oral presentations 3

1. **Valantis Fyndanis**, Lambros Messinis, Grigorios Nasios, Efthimios Dardiotis, Maria Martzoukou, Maria Pitopoulou, Katerina Ntoskou, Sonia Malefaki- Impaired verb-related morphosyntactic production in Multiple Sclerosis: Evidence from Greek
2. Cristina Romani, **Raffaele Nappo**, Ivana Bureca, & Gaspare Galati - Semantic hyper-interference and hyper-facilitation in aphasia: Evidence for activation-based models
3. **Jessica Obermeyer** & Nadine Martin - The influence of verbal short-term memory capacity on microlinguistic measures of word and utterance level content in discourse
4. **Katharina Hogrefe**, Wolfram Ziegler, Ralf Glindemann, Madleen Klonowski, Edith Wagner-Sonntag, Gudrun Klingenberg, Janine Diehl-Schmid, Carola Roßmeier, Adrian Danek, Johannes Levin, Catharina Prix, Sandra Loosli, Elisabeth Wlasich, & Georg Goldenberg - Application of the Nonverbal Semantics Test (NVST) to persons with aphasia after stroke and persons with dementia
5. **Kati Renvall** & Lyndsey Nickels - Treatment of adjectives in aphasia: Two case-studies
6. **Lyndsey Nickels**, Sharon Savage, Leonie Lampe, Olivier Piguet & John Hodges - Investigating over-generalisation following word-retrieval treatment in Semantic Dementia
7. Ashleigh Beales, **Anne Whitworth**, Jade Cartwright, Peter Panegyres & Robert Kane- Strategy, cognition, and communication partners: Maximizing treatment impact in progressive aphasia and Alzheimer's disease
8. **Jasmina Vuksanović**, Tanja Milovanović, Ljubica Konstantinović & Saša R. Filipović- Effect of Type of Language Therapy on Language Improvement in Patients with Post-Stroke Aphasia

15.00 – 15.30 Coffee

15.30 – 16.15 Flash presentations poster session 3

16:15 – 17.00 Poster session 3

1. **Özlem Oğuz** - Communicating and fixing communication breakdowns with people with aphasia: Speech-language therapists' (SLTs) and caregivers' perspectives
2. **Carlos Hernández-Sacristán** & Vicent Rosell-Clari - Cross-linguistic adaptation of MetAphAs (Metalanguage in Aphasia Assessment test). English and Italian versions of the Spanish original test
3. Šešok, S., Bolle, N. & **Kobal, J.** - Verbal and nonverbal fluency in presymptomatic carriers of the Huntington's disease gene
4. **Typhanie Prince**- Exploring Phonological Deficits in French speakers with Acute stroke Aphasia: A Preliminary Study
5. **Jill Kries**, Marlies Gillis, Jonas Vanthornhout, Tom Francart & Maaïke Vandermosten - Neural tracking of semantics in natural speech
6. Anastasios Georgiou & **Maria Kambanaros** - Neuronavigated 1 Hz repetitive Transcranial Magnetic Stimulation (rTMS) in Chronic post-Stroke Aphasia

7. **Arushi Garg**, Vitória Piai, Atsuko Takashima, James M. McQueen & Ardi Roelofs - Linking production and comprehension – Investigating the lexical interface
8. **Dilek Eroğlu Uzun**, Serkan Şener & Barış Metin - The Effect of tDCS on Syntactic Processing in Aphasia
9. **Dörte de Kok**, Sarah Hanekamp & Roelien Bastiaanse - Linguistic parameters in an app-based assessment of German verbs and nouns in aphasia
10. Maaïke Vandermosten, **Klara Schevenels**, Inge Zink & Bert De Smedt - Understanding language recovery in stroke patients by including neuroanatomical and behavioural measures of learning potential
11. **Elena Salillas**, Domenico D’Avella, Giorgio Arcara, Francesco Piccione, Sara Zago, Silvia di Tomasso & Carlo Semenza - Assessing verb selection using MEG. A precise methodology for language presurgical mapping
12. **Georgia Roumpea**, Maja Blesić, Dejan Georgiev & Christina Manouilidou - Investigating regular and irregular morphology in Parkinson’s and Alzheimer’s disease: evidence from Slovenian
13. **Ida Luotonen**, Kati Renvall & Pirjo Korpilahti - Semantic memory tasks for neurogenic disorders: Data on healthy elderly adults, Alzheimer’s disease and stroke aphasia
14. **Nomiki Karpathiou** & Maria Kambanaros - Frontotemporal dementia: a comparative case study of Greek-speaking individuals with the non-fluent and semantic variants of primary progressive aphasia
15. **Cornelia van Scherpenberg**, Rasha Abdel Rahman & Hellmuth Obrig - A novel multi-word paradigm to assess semantic context effects in uncompromised and impaired language production

Thursday 26 September

9.00 – 12.00 Invited talks: ***Language in the temporal lobe: Evolution, loss & recovery***

Laurent Cohen (ICM, Pitié Salpêtrière hospital and University of Paris, France)

Cynthia K Thompson (Department of Communication Sciences and Disorders, Northwestern University, Chicago, IL, USA)

12.00 – 13.00 Lunch

13.00 – 13.45 Flash presentations poster session 4

13.45 – 14:30 Poster session 4

1. **Saša Filipović**, Jasmina Vuksanović, Tanja Milovanović & Ljubica Konstantinović - Effect of Type of Language Therapy on Fluency in Patients with Post-Stroke Aphasia
2. **Tanja Milovanović**, Jasmina Vuksanović, Ljubica Konstantinović & Saša R. Filipović - Effects of language therapies on receptive language recovery in post-stroke aphasia patients
3. Mizoon Ali, **Marian Brady** et al. - RELEASE-ing the potential of a large, international, systematic review-based Individual Participant Data (IPD) aphasia after stroke database for meta- and network meta-analysis
4. Pauliina Sorvisto, Paul Mullins & **Marie-Josèphe Tainturier** - Effects of orthographic depth on functional connectivity within reading pathways in proficient bilinguals
5. **Vânia de Aguiar**, Adrià Rofes, Bronte Ficek, Kimberly Webster, Haley Wendt & Kyrana Tsapkini - Treating lexical retrieval using letter fluency in primary progressive aphasia – a single case study
6. **Lorenzo Vercesi**, Prerana Sabnis, Chiara Finocchiaro, Luigi Cattaneo, Elena Tonolli & Gabriele Miceli - Who does what to whom: the role of the I-IPS in the comprehension of reversible and irreversible sentences

7. **Rosell-Clari, V.**, Hernández-Sacristán, C., & Lorenzo-Cordero, A.- Comparison of metalinguistic profiles of early-stage Alzheimer's patients and healthy older adults
8. **Bruns, C.**, Zimmerer, V., Bruce, C., Varley, R. & Beeke, S. - Using multi-word utterances more flexibly in non-fluent aphasia: Findings from a case series investigation
9. **Maja Blesić**, Dejan Georgiev & Christina Manouilidou - Prosody perception by Slovene speaking individuals diagnosed with Parkinson's Disease
10. **Julie Schlesinger**, Jessica Obermeyer & Nadine Martin - Repeated item exposure effects in a verbal short-term memory treatment
11. **Matthias Sandmann**, Sabine Weiss & Horst Müller - Do you prefer playing "with fire" or "with the flame"? Idiom comprehension in individuals with mild aphasic symptoms
12. **Shinri Ohta**, Yohei Oseki & Alec Marantz - Morpheme processing in the ventral temporal lobe: An MEG study of Japanese verbs
13. **Ann-Katrin Ohlerth**, Roelien Bastiaanse, Chiara Negwer, Nico Sollmann, Severin Schramm, Axel Schröder & Sandro M. Krieg - Cortical and subcortical involvement during Object and Action Naming in healthy participants under nTMS
14. Carolina Méndez-Orellana, Caitlin Holme, Karina Sandoval-León, Bárbara Cortés-Rivera, Paula Méndez-Orellana, **Silvia Martínez-Ferreiro** - Spontaneous Speech Analysis in Spanish-Speaking Adults: Normative data in healthy adults, elderly adults and patients with brain lesions

14.30 End of meeting