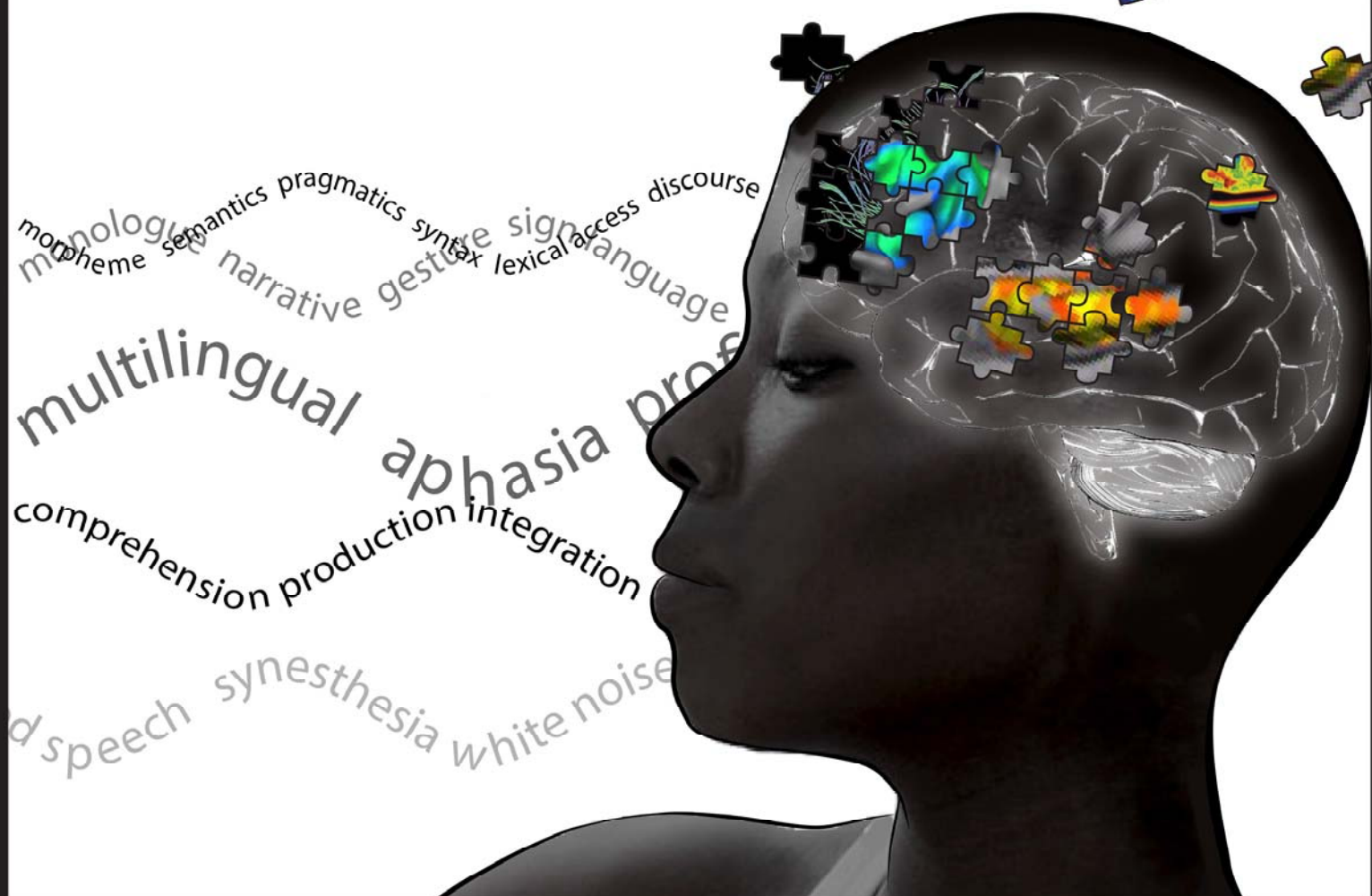


SOCIETY FOR THE NEUROBIOLOGY OF LANGUAGE



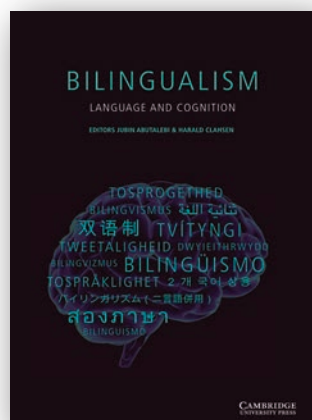
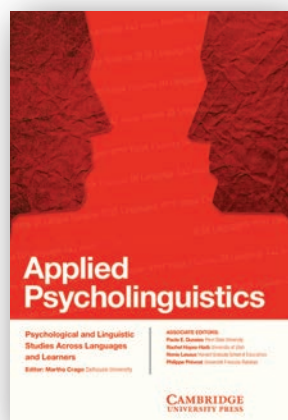
Amsterdam 2014
Conference Proceedings

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Welcome to SNL 2014, Amsterdam, the Netherlands

Welcome to the Sixth Annual Meeting of the Society for the Neurobiology of Language. A meeting like this finds its *raison d'être* in the conviction that science is not only about having ideas, but also about communicating them. Our Society is an important vehicle for the communication of ideas, insights, and findings related to the neurobiological infrastructure for human language. One of the great challenges for science in the 21st century is to understand how the microcosm of the human brain enables the key cognitive capacities that we command. Understanding how the brain gives rise to language is central in this endeavour. Our annual meeting brings together researchers that share this common goal, and it is encouraging that every year more researchers are joining this important endeavour. Our Society continues to grow. This year there were more submissions than ever before.

The increasing number of members of our Society and the ever larger numbers of participants at our annual meeting has influenced the organization of our Society and our annual meeting. The website (www.neurolang.org) and the monthly newsletter have proven to be a major asset for making our Society more professional. I would like to express special thanks to our meeting planner, Shaune Wilson and her colleague Shawna Lampkin, and to Carolin Lorenz for organizing this year's meeting in Amsterdam. I would like to thank the PhD students and postdocs in my own research group, who were tremendously helpful in organizing this year's meeting, including designing the cover of the program booklet, the T-shirt, etcetera. Without their contributions this meeting simply would not have taken place. In addition, I would like to express my sincere thanks to our sponsors, whose substantial financial contributions have made it possible to hold this meeting while keeping registration fees affordable.

The program of this year's meeting has a line-up of excellent keynote speakers, a debate on the foundations of the neurobiology of language, and for the first time, a symposium. At the core of our meeting, however, are your contributions: posters, oral slide sessions, and active participation at the different sessions. You are the sole reason for the existence of this Society, and its continued success depends on you. Therefore we will continue to need your active contributions and feedback.

On behalf of the SNL Board and the local organizers, welcome to Amsterdam, historically a central hub in worldwide communication and the exchange of goods, science and arts. In line with this history, I hope that this year's meeting will encourage you to build your own connections with colleagues and students from around the world.

Peter Hagoort

Chair, Society for the Neurobiology of Language

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SNL Founders

- Steven L. Small, Ph.D., M.D.,
University of California, Irvine, US
- Pascale Tremblay, Ph.D.,
Université Laval, Quebec, Canada



Schedule of Events

All events are held at the Beurs van Berlage.

Wednesday, August 27

11:00 am – 5:30 pm	Pre-Registration Check-in and Onsite Registration <i>Beursfoyer</i>
1:00 – 1:30 pm	Opening Remarks - Peter Hagoort, SNL Chair <i>Effectenbeurszaal</i>
1:30 – 2:30 pm	Keynote Lecture - Willem J.M. Levelt Localism versus holism. The historical origins of studying language in the brain. <i>Effectenbeurszaal</i>
2:30 – 3:00 pm	Coffee Break <i>Grote Zaal</i>
2:30 – 4:30 pm	Poster Session A <i>Grote Zaal</i>
4:30 - 5:50 pm	Slide Session A – Speech Processing <i>Effectenbeurszaal</i>
7:00 - 8:00 pm & 8:15 - 9:15 pm	Canal Boat Tour (Sign up for your preferred time at the Registration Desk)

Thursday, August 28th

7:30 am – 7:00 pm	Pre-Registration Check-In and Onsite Registration <i>Beursfoyer</i>
8:00 - 8:30 am	Coffee Break <i>Grote Zaal</i>
8:30 - 9:50 am	Slide Session B – Language Evolution and Brain Structure <i>Effectenbeurszaal</i>
10:00 - 10:30 am	Coffee Break <i>Grote Zaal</i>
10:00 am – 12:00 pm	Poster Session B <i>Grote Zaal</i>
12:00 – 1:00 pm	Lunch Served <i>Grote Zaal</i>
1:00 – 2:00 pm	Keynote Lecture - Constance Scharff Singing in the (b)rain <i>Effectenbeurszaal</i>
2:15 – 3:45 pm	Symposium – A neurobiology of naturalistic language use? <i>Effectenbeurszaal</i>
3:45 - 4:15 pm	Coffee Break <i>Grote Zaal</i>

3:45 - 5:45 pm	Poster Session C <i>Grote Zaal</i>
5:45 – 6:15 pm	Business Meeting <i>Effectenbeurszaal</i>
6:15 – 7:15 pm	Keynote - Pascal Fries Brain rhythms for bottom-up and top-down signaling <i>Effectenbeurszaal</i>
7:15 – 8:15 pm	Social Hour <i>Beurs van Berlage Café</i>

Friday, August 29th

7:30 am – 7:00 pm	Pre-Registration Check-In and Onsite Registration <i>Beursfoyer</i>
8:00 - 8:30 am	Coffee Break <i>Grote Zaal</i>
8:30 - 9:50 am	Slide Session C – Combinatorial Processing: Syntax, Semantics, Pragmatics <i>Effectenbeurszaal</i>
10:00 - 10:30 am	Coffee Break <i>Grote Zaal</i>
10:00 am – 12:00 pm	Poster Session D <i>Grote Zaal</i>
12:00 – 1:00 pm	Lunch Served <i>Grote Zaal</i>
1:00 – 2:20 pm	Slide Session D - Lexical Processing and Cognitive Control <i>Effectenbeurszaal</i>
2:30 – 4:00 pm	Panel Discussion What counts as neurobiology of language – a debate <i>Effectenbeurszaal</i>
4:00 – 4:30 pm	Coffee Break <i>Grote Zaal</i>
4:00 - 6:00 pm	Poster Session E <i>Grote Zaal</i>
6:00 – 7:00 pm	Keynote Lecture - Mike Tomasello Communication without Conventions <i>Effectenbeurszaal</i>
7:00 – 7:15 pm	Closing Remarks - Nina Dronkers, SNL Chair-Elect <i>Effectenbeurszaal</i>
7:15 – 8:15 pm	Social Hour <i>Beurs van Berlage Café</i>

Abstract Merit Awards

The Society for the Neurobiology of Language Abstract Merit Awards are given to the students and postdocs who submitted the highest ranked abstracts.

Graduate Student Merit Award Winners

Mirjam de Jonge, University of Amsterdam, Netherlands

Sara Pillay, Medical College of Wisconsin, USA

Post Doctoral Merit Award Winners

Tristan Davenport, University of California, San Diego, USA

Benjamin Wilson, Newcastle University, UK

Travel Awards

This year, the Society for the Neurobiology of Language granted twelve Travel Awards. The awards, funded by the National Institutes of Health (NIH), help to cover travel and registration costs for the 2014 Society for the Neurobiology of Language Meeting in Amsterdam.

Through the travel awards, SNL aims to encourage and foster the participation of junior scientists who are members of underrepresented groups.

The 2014 Travel Awards were given to:

Mariana Aparicio Betancourt, University of Illinois at Urbana-Champaign, USA

Alexandra Basilakos, University of South Carolina, USA

Gangyi Feng, South China Normal University, China

Andrea Gajardo Vidal, University College London, UK

Amanda Garcia, University of Florida, USA

Carolina Gattei, Universidad de Buenos Aires, Argentina

Ece Kocagoncu, University of Cambridge, UK

Diego Lorca Puls, University College London, UK

Paul Metzner, Universität Potsdam, Germany

Anna Simmonds, Imperial College London, UK

Susann Ullrich, Humboldt University, Germany

Brianna L. Yamasaki, University of Washington, USA

Canal Boat Tour

All attendees are invited to enjoy a FREE one hour tour through Amsterdam's historic and enchanting canals on Wednesday, August 27, at the close of the first day of SNL 2014. A tour of Amsterdam's stunning canals is one of the best ways to experience Amsterdam and see some of its famous sites.

The 165 canals were created over the centuries to stimulate trade and transport and reclaim land to expand the city. They continue define the city's landscape and in 2010 Amsterdam's canal ring was recognized as a UNESCO world heritage site.

Two embarkation times are available: 7:00 pm and 8:15 pm. Sign up at the Registration desk for your preferred time. You MUST arrive at the mooring location no less than 10 minutes prior to departure.

Mooring location: Krasnapolsky hotel, Oudezijds Voorburgwal – located in front of the back entrance of the Krasnapolsky hotel on the Oudezijds Voorburgwal 228.

Keynote Lectures

LOCALISM VERSUS HOLISM. THE HISTORICAL ORIGINS OF STUDYING LANGUAGE IN THE BRAIN.

Wednesday, August 27, 1:30 – 2:30 pm, Effectenbeurszaal

Chair: Peter Hagoort, Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands



Willem Levelt

Director Emeritus of the Max Planck Institute for Psycholinguistics in Nijmegen

“Show me the forces of the soul, and I will find the organ and the seat thereof”, Franz Joseph Gall wrote in 1818. Ever since, the issue of localism versus holism would remain a major controversy in the study of brain and language. I will discuss how this controversy developed from Gall’s beginnings through the first half of the 20th century. For the sake of exposition I will distinguish three phases in this theoretical history. During the first phase, from Gall to Broca, localizing the faculty of articulate speech became the litmus test for Gall’s general localistic theory. During the second phase of “diagram making”, since Wernicke and Lichtheim, networks of language functions were related to neural networks in the brain. During the third phase, since Marie’s “revolt against localism” of 1906/7, various attempts were made to “de-modularize” language and to relate this “intellectual function” to holistic brain action. However, their proponents (such as Head and Goldstein) did not manage to resolve the controversies.

SINGING IN THE (B)RAIN

Thursday, August 28, 1:00 – 2:00 pm, Effectenbeurszaal

Chair: Simon Fisher, Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands



Constance Scharff

Professor of Animal Behavior at the Freie Universität Berlin

Spoken language and birdsong share a number of striking parallels. Comparing the biologically tractable cognitive abilities necessary for language and for birdsong is a fruitful endeavor to identify, which properties are shared and which are unique to each. I will review evidence for the relevance of the FoxP2 gene and its associated molecular network for speech and its role in modulating variability in the songbird basal ganglia circuit relevant for the acquisition and production of birdsong. However, I will argue that the similarities between human language and songbirds are not limited to sensorimotor processes – but may extend to other structural and functional properties. Many questions regarding the similarities between spoken language and birdsong remain unanswered, but increasing evidence suggests that human and non-human communication systems may rely on conserved molecular toolkits that act as genetic modules. These may specify the neural circuits subserving these particular behaviors, and

organize their function. Elucidating these genetic modules in different animal models may inform the evolution of language and other complex traits.

BRAIN RHYTHMS FOR BOTTOM-UP AND TOP-DOWN SIGNALING

Thursday, August 28, 6:15 – 7:15 pm, Effectenbeurszaal

Chair: Kate Watkins, Department of Experimental Psychology & FMRIB Centre, University of Oxford, UK



Pascal Fries

Director of the Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck Society

Our brain generates rhythms continuously, and I will show in this lecture how some of these rhythms serve the communication between brain areas. One of the most intriguing rhythms is the gamma-band rhythm, which is strongly enhanced when a brain region is activated. When the gamma in one brain region entrains a gamma rhythm in another brain region, then signals can be sent over. If this entrainment or synchronization does not happen, then also no signal will flow, as I will demonstrate for the case of selective attention studied with high-resolution electrocorticography in monkeys. Thus, the selective gamma-band synchronization serves as a selective communication protocol. In these experiments, we found that gamma, together with theta, generally serves the bottom-up signaling of sensory information. By contrast, top-down signaling was served by beta-band synchronization. The pattern of inter-areal influences in the theta, beta

and gamma bands was closely related to the hierarchical relationship between areas, as determined by laminar anatomical connection patterns. In fact, a hierarchy of visual areas derived purely from directed inter-areal influences was almost identical to the anatomical hierarchy. I will demonstrate that this holds for visual areas in human subjects studied with magnetoencephalography. It might hold also for other human brain areas, including language areas. Finally, I will show that bottom-up signaling in the gamma band is structured by a theta rhythm. The theta cycle implements one cycle of visual attentional sampling, as can be seen from human psychophysics and magnetoencephalography.

COMMUNICATION WITHOUT CONVENTIONS

Friday, August 29, 6:00 – 7:00 pm, Effectenbeurszaal

Chair: Nina Dronkers, VA Northern California Health Care System and University of California, Davis



Mike Tomasello

Co-Director of the Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

For obvious and very good reasons the study of human communication is dominated by the study of language. But from a psychological point of view, the basic structure of human communication – how it works pragmatically in terms of the intentions and inferences involved – is totally independent of language. The most important data here are acts of human communication that do not employ conventions. In situations in which language is for some reason not an option, people often produce spontaneous, non-conventionalized gestures, including most prominently pointing (deictic gestures) and pantomiming (iconic gestures). These gestures are universal among humans and unique to the species, and in human evolution they almost certainly preceded conventional communication, either signed or vocal. For prelinguistic infants to communicate effectively via pointing and pantomiming, they must already possess species-unique and very powerful

skills and motivations for shared intentionality as pragmatic infrastructure. Conventional communication is then built on top of this infrastructure – or so I will argue.

Panel Discussion

What counts as neurobiology of language – a debate

Friday, August 29, 2:30 – 4:00 pm, Effectenbeurszaal

Chair: Nina Dronkers, VA Northern California Health Care System and University of California, Davis

Panelists:

Steve Small

University of California, Irvine, USA

Angela Friederici

Director, Department of Neuropsychology, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany



Obviously the study of the neurobiology of language is about the brain and about language. What is less clear, however, is how these two areas intersect. What do we mean when we say that our goal is to understand the neurobiological mechanisms that underlie speaking and understanding language? Does it suffice to know where the processes of comprehension and production happen in the brain (fMRI) or when they happen (ERPs)? How exactly do we envision that the crucial aspects of language, such as sound, meaning, and syntax, will map onto the neural architecture of the human brain? Will the ultimate answer to these questions come from analyzing the firing patterns of individual neurons, measuring the joint contributions of neuronal populations, or perhaps from understanding the organization of large scale brain-wide networks? Do we need cognitive models of language in order to ask the relevant questions about the underlying neurobiology, or will our understanding of the cognitive organization emerge from our understanding of the brain? These and related issues form the core of the debate on what counts as the ‘true’ neurobiology of language.

Symposium

A NEUROBIOLOGY OF NATURALISTIC LANGUAGE USE?

Thursday, August 28, 2:15 – 3:45 pm, Effectenbeurzaal

Chair: Roel Willems, Donders Institute Nijmegen

Speakers:

Roel Willems

Donders Institute for Brain, Cognition and Behavior, Radboud University Nijmegen and Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

Jeremy Skipper

University College London, UK

Giovanna Egidi

Center for Mind/Brain Sciences, University of Trento, Italy

Uri Hasson

Center for Mind/Brain Sciences, University of Trento, Italy

When we think of everyday language use, the first things that come to mind include colloquial conversations, reading and writing emails, sending text messages or reading a book. But can we study the brain basis of language as we use it in our daily lives? As a topic of study, the neurobiology of language is far removed from these language-in-use examples, and most research is at the level of isolated words or sentences. However, recent developments in methodology have made studying the neural underpinnings of naturally occurring language much more feasible. For instance, it is now possible to meaningfully interpret fMRI data that was collected while people listen to complete narratives, or when they are in face-to-face communication with each other. Some view these methodological advances mainly as technical niceties: it is nice that the techniques are available, but this will not change our thinking about the neurobiology of language much. Others argue that ‘going more naturalistic’ will change the way we think about the neurobiological basis of language, and will lead to a revision of current ideas.

In this symposium we propose to explore what the new developments in studying the neural basis of naturalistic language are, and how they inform the neurobiology of language. Four speakers who are at the forefront of this development will share their current views and findings. Roel Willems (Nijmegen) will illustrate recent approaches to naturalistic language comprehension, and show how application of new methods allows for the use of neuroimaging in studying how people comprehend literature. Jeremy Skipper (UCL London) will show how investigation of the neural basis of language comprehension using rich, multimodal stimuli (e.g. recordings of TV shows) leads to a reframing of the role of a basic area involved in language comprehension, namely the auditory cortex. Giovanna Egidi (Trento) will show current insights in an important subprocess of language for which one has use stimuli beyond the sentence level, namely discourse comprehension. Finally, Uri Hasson (Trento) will tie the previous talks together, and will present a new framework for studying the neurobiology of high-level, more naturalistic language use.

Experiments employing more naturalistic language stimuli have been dominated by methodological developments, and the outcomes of such studies have not as yet left their impact of the field. In this symposium there will be apt coverage of methods and techniques, but the main focus will explicitly be on a critical discussion of the implications for understanding the neural basis of language. Whether and how our field should make a move towards studying the neural basis of more naturalistic language, is a topic of considerable debate, with fierce proponents as well as opponents among members of the SNL. This symposium tries to kick start discussion about this issue, with four lively speakers presenting their fresh and discussion-provoking ideas to the SNL crowd. The symposium is informative, timely, and importantly aims at sketching the potentially wide-ranging implications of studying the neurobiology of naturalistic language use for our understanding of language and the brain.

General Information

ATM

Several ATM machines are located within 100 meters of the Beurs van Berlage.

Abstracts

The full text of poster, slide, and symposium abstracts can be found in the PDF version of the SNL 2014 Program, which is downloadable from the www.neurolang.org website.

Audio-Visual

A Windows PC and LCD projector will be provided in Effectenbeurszaal for your presentation. You may present from your own computer if you prefer. If you are presenting from your own computer, you must have a VGA port or adaptor to connect to the projector.

You must bring your presentation (PowerPoint and supporting files) on a flash drive if presenting on the provided PC and as a backup if bringing your own computer.

We recommend that you arrive 30 minutes before the start of your session to set up and test your presentation.

Canal Boat Tour

All attendees are invited to enjoy a FREE one hour tour through Amsterdam's historic and enchanting canals on Wednesday, August 27, at the close of the first day of SNL 2014. See page 5 for more information.

Certificate of Attendance

To receive a Certificate of Attendance, please visit the registration desk. If you require any amendments, we will be happy to email/mail a copy after the meeting (info@neurolang.org).

Contact Us

To contact us onsite, visit the Registration Desk, or send an email to info@neurolang.org. We will respond to your email at our earliest opportunity.

Copying, Printing and Office Supplies

The closest print shop is "Printerette" located at Spuistraat 128. They offer self-service copying in color and black & white, as well as large format and poster printing. Printerette also offers a selection of office supplies.

Dining

The Beurs van Berlage Café is open every day from 10:00 am – 6:00 pm, serving sandwiches, soups, salads and an assortment of finger foods.

Disclaimer

The SNL Program Committee reserves the right to make changes to the meeting program at any time without notice. This program was correct at the time of printing.

Duplication / Recording / Photography

Photography, audiotaping, video recording, digital taping or any other form of duplication is strictly prohibited in the sessions and poster areas.

Food Service

Complimentary food and beverage service is available to all registered attendees at the times shown below. All food and beverages are served in Grote Zaal.

Wednesday

Afternoon Coffee, 2:30 – 3:00 pm

Thursday

Coffee Break, 8:00 – 8:30 am

Coffee Break, 10:00 – 10:30 am

Lunch, 12:00 – 1:00 pm

Afternoon Coffee, 3:45 – 4:15 pm

Friday

Coffee Break, 8:00 – 8:30 am

Coffee Break, 10:00 – 10:30 am

Lunch, 12:00 – 1:00 pm

Afternoon Coffee, 4:00 – 4:30 pm

Future Meetings

SNL 2015 will be held October 14-16, 2015 in Chicago, IL, USA.

Internet

Free wireless Internet is available in all Beurs van Berlage meeting rooms.

Lost & Found

Please check with the SNL Registration Desk for lost and found items.

Meeting Rooms

All general sessions (Keynotes, Symposium, Panel Discussion and Slides) are held in Effectenbeurszaal.

All poster sessions are in Grote Zaal.

Messages

A bulletin board will be available for messages and job postings near the SNL Registration Desk.

Mobile Phones

Attendees are asked to silence their mobile phones when in sessions.

Name Badges

For security purposes, all attendees must wear their name badges to all sessions and social functions. Entrance into sessions is restricted to registered attendees only. If you misplace your name badge, please go to the Registration Desk for a replacement.

Onsite Meeting Registration

The SNL Registration Desk is located in the Beursfoyer. The Registration Desk hours are:

Wednesday, August 27, 11:00 am – 5:30 pm

Thursday, August 28, 7:30 am – 7:00 pm

Friday, August 29, 7:30 am – 7:00 pm

Poster Sessions

Posters are located in Grote Zaal. See page 14 for the poster schedule.

Smoking

Smoking is not permitted in the Beurs van Berlage. A smoking area is provided outside the main entrance.

SNL Social Hour

The Beurs van Berlage Café will be open to SNL attendees only for an SNL Social Hour, 7:15 pm – 8:15 pm immediately following the last session on both Thursday and Friday. A no-host bar will be available so that attendees can relax and interact with colleagues and friends.

Speakers

Please ensure that you are available at least thirty minutes before the start of the session. See Audio-Visual for technical information.

Transportation

Arrival by Plane

Amsterdam Airport Schiphol (AMS), the primary international airport in the Netherlands, is located about 20 kilometres from Amsterdam. You can reach the city from Schiphol in less than half an hour by train, taxi or hotel shuttle.

Taking the train is the fastest and most convenient way to get to the city center. The train station is located directly underneath the airport and trains to Amsterdam Central Station run about every 10 minutes. The platforms can be entered at Schiphol Plaza. You can buy train tickets at the yellow ticket machines near the platforms or at the ticket offices, situated close to the red/white-checked cube at Schiphol Plaza. More information on how to travel by train in the Netherlands can be found here link: <https://www.ns.nl/en/travellers/home>.

Arrival by Train

If you arrive by train, the nearest station to our conference venue and hotels is Amsterdam Central Station. There are frequent train connections from Germany, Belgium, France, UK and Austria.

Local Transportation Tickets

GVB (en.gvb.nl) is the public transport company of Amsterdam providing integrated metro, tram and bus service throughout Amsterdam and its surrounding areas. There are 1 up to 7 days GVB day cards available, which allow for unlimited travel on all trams, buses, metros and night buses of GVB for the duration of the card and provide economical way for visitors to explore the city. Another alternative is the I amsterdam city card for 1 to 3 days unlimited travel with GVB transport and free entry or substantial discount for museums, canal trips etc. The GVB day card and I amsterdam city card can be bought at the GVB ticket machines in the Amsterdam train stations and the Visitors Information Centre at Schiphol Plaza, Arrivals 2 (open daily 7am-10pm) or the GWK Travelex offices at Schiphol airport or in Amsterdam. Note that these cards are not valid for trains.

If you have been in Amsterdam before and used the strippenkaart, we should inform you, that these tickets are no longer valid in the Netherlands.

How to Get Around Amsterdam

Walking: Amsterdam is a wonderfully walkable city with most major sites located in or near the city center.

Biking: Of course biking is the preferred Dutch way to travel. Bicycle rentals are readily available throughout the city. Central Station, Leidseplein and Dam Square are all major rental hubs. Day rates average 8€ with some multi-day rates as low as €4.

Trams: Trams provide the best way to get around in Amsterdam and run regularly until 12:15am.

City Buses: Buses are primarily used to reach outlying suburbs and are also used after the trams have stopped running. Night buses run from midnight until 7am with routes connecting to Central Station, Rembrandtplein and Leidseplein.

Metro: The four metro lines will quickly carry you to the distant suburban areas of the city. Three of the Amsterdam metro lines start their run from the Central Station.

Rental Cars: Although driving in Amsterdam is not recommended, car rental services are readily available at Schiphol Airport. All major agencies are represented including Avis, Budget, Europcar, Hertz, National and Alamo.

Slide Sessions

Slide Session A

Wednesday, August 27, 4:30 - 5:50 pm, Effectenbeurszaal

Speech Processing

Chair: Heather Bortfeld, University of Connecticut, Storrs, CT & Haskins Laboratories, USA

Speakers: Kristen Berry, Mirjam J.I. de Jonge, Julius Fridriksson, Joao Correia

4:30 pm

A1 The When and Where of Multisensory Speech

Processing *Kristen Berry¹, Valerie Nunez¹, Werner Doyle¹, Callah Boomhaur¹, Lucia Melloni^{1,3}, Daniel Friedman¹, Patricia Dugan¹, Orrin Devinsky¹, Eric Halgren⁴, Thomas Thesen^{1,2}; ¹NYU Comprehensive Epilepsy Center, Department of Neurology, School of Medicine, New York University, ²Department of Radiology, School of Medicine, New York University, ³Department of Neurophysiology, Max Planck Institute for Brain Research, Frankfurt am Main, Hessen, Germany, ⁴Multimodal Imaging Lab, University of California, San Diego*

4:50 pm

A2 Featural underspecification, not acoustic peripherality, predicts neural mismatch response: evidence from French

Mirjam J.I. de Jonge¹, Paul Boersma¹; ¹University of Amsterdam, Netherlands

5:10 pm

A3 Speech entrainment reveals a crucial role of efference copy for fluent speech production

Julius Fridriksson¹, Alexandra Basilakos¹, Leonardo Bonilha², Chris Rorden¹; ¹University of South Carolina, Columbia, SC, ²Medical University of South Carolina, Charleston, SC

5:30 pm

A4 Decoding articulatory features from fMRI

responses to speech *Joao Correia¹, Bernadette Jansma¹, Milene Bonte¹; ¹Department of Cognitive Neuroscience, Faculty of Psychology and Neuroscience, Maastricht University, The Netherlands*

Slide Session B

Thursday, August 28, 8:30 - 9:50 am, Effectenbeurszaal

Language Evolution and Brain Structure

Chair: Sonja Kotz, University of Manchester, UK and Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

Speakers: Benjamin Wilson, Frederic Dick, Uri Hasson, Tristan Davenport

8:30 am

B1 Artificial-grammar learning engages evolutionarily conserved regions of frontal cortex in humans and macaques

Benjamin Wilson^{1,2}, Yukiko Kikuchi^{1,2}, Kenny Smith³, William Marslen-Wilson⁴, Christopher Petkov^{1,2}; ¹Institute of Neuroscience, Henry Wellcome Building, Newcastle University, Framlington Place, Newcastle upon Tyne, NE2 4HH, United Kingdom., ²Centre for Behaviour and Evolution, Henry Wellcome Building, Newcastle University, Framlington Place, Newcastle upon Tyne, NE2 4HH, United Kingdom., ³School of Philosophy, Psychology and Language Sciences, University of Edinburgh, Edinburgh, United Kingdom., ⁴Department of Psychology, University of Cambridge, Cambridge, United Kingdom.

8:50 am

B2 The relationship of auditory language regionalization to myeloarchitectonically and tonotopically-defined auditory areas: axes of stability and variability within and between subjects.

Frederic Dick¹, Marty Sereno^{1,2}, Rachel Kelly¹, Mark Kenny-Jones¹, Martina Callaghan²; ¹Birkbeck College, University of London, ²University College London

9:10 am

B3 Caudal-rostral and lateral-medial organization of subregions of the supratemporal plane revealed by cortical-thickness covariation patterns

Uri Hasson¹, Pascale Tremblay², Isabelle Deschamps²; ¹University of Trento, ²Université Laval

9:30 am

B4 Effects of childhood language deprivation on picture processing: Insights from adolescent first-language learners

Tristan Davenport¹, Naja Ferjan Ramirez², Matthew Leonard³, Rachel Mayberry¹, Eric Halgren¹; ¹University of California, San Diego, ²University of Washington, ³University of California, San Francisco

Slide Session C

Friday, August 29, 8:30 - 9:50 am, Effectenbeurszaal

Combinatorial Processing: Syntax, Semantics, Pragmatics

Chair: Jeffrey Binder, Medical College of Wisconsin, USA

Speakers: Connor Lane, Monika Mellem, Annika Hultén, Evelina Fedorenko

8:30 am

C1 Sensitivity to syntactic complexity in visual cortex of blind adults. *Connor Lane¹, Shipra Kanjlia¹, Akira Omaki¹, Marina Bedny¹; ¹Johns Hopkins University*

8:50 am

C2 Activity in left anterior temporal cortex is modulated by constituent structure of sentences, but only with social/emotional content *Monika Mellem¹, Kyle Jasmin¹, Cynthia Peng¹, Alex Martin¹; ¹Lab of Brain and Cognition, NIMH/NIH, Bethesda, MD*

9:10 am

C3 Effects of sentence progression in event-related and rhythmic neural activity measured with MEG *Annika Hultén^{1,2}, Jan-Mathijs Schoffelen^{1,2}, Julia Uddén^{1,2}, Nietzsche Lam^{1,2}, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Donders Centre for Cognitive Neuroimaging, Nijmegen, The Netherlands*

9:30 am

C4 The cognitive and neural basis of pragmatic processing: A case study of jokes *Evelina Fedorenko¹, Jeanne Gallée², Zuzanna Balewski³; ¹MGH, ²Wellesley College, ³MIT*

Slide Session D

Friday, August 29, 1:00 - 2:20 pm, Effectenbeurszaal

Lexical Processing and Cognitive Control

Chair: Fred Dick, Birkbeck/UCL Centre for

NeuroImaging & Centre for Brain and Cognitive Development, Birkbeck College, University of London, UK

Speakers: Sara Pillay, Olaf Dimigen, Alexis Hervais-Adelman, Megan Zirnstein

1:00 pm

D1 Category-related semantic impairment: A “chronometric” voxel-based lesion-symptom mapping study *Sara Pillay^{1,2}, Colin Humphries¹, Diane Book¹, William Gross¹, Jeffrey Binder¹; ¹Medical College of Wisconsin, ²RFUMS*

1:20 pm

D2 The impact of parafoveal preprocessing on natural word recognition: Evidence from fixation-related potentials and RSVP with flankers *Olaf Dimigen¹, Benthe Kornrumpf¹, Florian Niefind¹, Michael Dambacher², Reinhold Kliegl³, Werner Sommer¹; ¹Humboldt University at Berlin, Germany, ²University of Potsdam, Germany, ³University of Konstanz, Germany*

1:40 pm

D3 A longitudinal fMRI investigation of simultaneous interpretation training *Alexis Hervais-Adelman^{1,2}, Barbara Moser-Mercer², Narly Golestani¹; ¹Brain and Language Lab, Department of Clinical Neurosciences, University of Geneva, ²Department of Interpretation, Faculty of Translation and Interpretation, University of Geneva*

2:00 pm

D4 The Dual Roles of Cognitive Control and Verbal Fluency in Prediction Generation and Recovery: Evidence from Monolinguals and Bilinguals *Megan Zirnstein¹, Janet G. van Hell^{1,2}, Judith F. Kroll¹; ¹Pennsylvania State University, ²Radboud University, Nijmegen*

Poster Schedule

Poster sessions are scheduled on Wednesday, August 27 through Friday, August 29. Poster sessions are 2 hours, and presenting authors are expected to be present the entire time. Posters are located in Grote Zaal. You may post your materials on the board assigned to you starting at the scheduled "Set-up Begins" time shown below. Please note that any posters not removed by "Teardown Complete" time will be discarded. Do not leave personal items in the poster room.

Date & Time	Posters	Topics
Poster Session A	A1 - A5	Methods
Wednesday, August 27	A6 - A9	Gesture, Prosody, Social and Emotional Processes
2:30 - 4:30 pm	A10 - A20	Auditory Perception, Speech Perception, Audiovisual Integration
	A21 - A24	Orthographic Processing, Writing, Spelling
	A25 - A28	Phonology, Phonological Working Memory
Setup Begins: 12:30 pm	A29 - A40	Language Development, Plasticity, Multilingualism
Teardown Complete: 6:30 pm	A41 - A53	Lexical Semantics
	A54 - A58	Discourse, Combinatorial Semantics
	A59 - A70	Syntax, Morphology
	A71 - A76	Control, Selection, Working Memory
	A77 - A86	Language Disorders
Poster Session B	B1 - B6	Gesture, Prosody, Social and Emotional Processes
Thursday, August 28	B7 - B17	Auditory Perception, Speech Perception, Audiovisual Integration
10:00 am - 12:00 pm	B18 - B24	Motor Control, Speech Production, Sensorimotor Integration
	B25 - B37	Language Development, Plasticity, Multilingualism
	B38 - B48	Lexical Semantics
Setup Begins: 8:00 am	B49 - B62	Discourse, Combinatorial Semantics
Teardown Complete: 1:00 pm	B63 - B73	Syntax, Morphology
	B74 - B85	Language Disorders
Poster Session C	C1 - C5	Methods
Thursday, August 28	C6 - C14	Auditory Perception, Speech Perception, Audiovisual Integration
3:45 - 5:45 pm	C15 - C20	Motor Control, Speech Production, Sensorimotor Integration
	C21 - C27	Orthographic Processing, Writing, Spelling
	C28 - C32	Phonology, Phonological Working Memory
Setup Begins: 1:00pm	C33 - C35	Signed Language
Teardown Complete: 7:15 pm	C36 - C47	Language Development, Plasticity, Multilingualism
	C48 - C56	Lexical Semantics
	C57 - C62	Discourse, Combinatorial Semantics
	C63 - C72	Syntax, Morphology
	C73 - C78	Control, Selection, Working Memory
	C79 - C86	Language Disorders
Poster Session D	D1 - D6	Gesture, Prosody, Social and Emotional Processes
Friday, August 29	D7 - D18	Auditory Perception, Speech Perception, Audiovisual Integration
10:00 am - 12:00 pm	D19 - D26	Motor Control, Speech Production, Sensorimotor Integration
	D27 - D35	Language Development, Plasticity, Multilingualism
	D36	Orthographic Processing, Writing, Spelling
Setup Begins: 8:00 am	D37 - D44	Language Development, Plasticity, Multilingualism
Teardown Complete: 1:00 pm	D45 - D60	Lexical Semantics
	D61 - D65	Discourse, Combinatorial Semantics
	D66 - D73	Syntax, Morphology
	D74 - D86	Language Disorders
Poster Session E	E1 - E13	Auditory Perception, Speech Perception, Audiovisual Integration
Friday, August 29	E14 - E20	Motor Control, Speech Production, Sensorimotor Integration
4:00 - 6:00 pm	E22 - E27	Orthographic Processing, Writing, Spelling
	E28 - E31	Phonology, Phonological Working Memory
	E32 - E43	Language Development, Plasticity, Multilingualism
Setup Begins: 1:00 pm	E44 - E55	Lexical Semantics
Teardown Complete: 7:00 pm	E56 - E60	Discourse, Combinatorial Semantics
	E61 - E72	Syntax, Morphology
	E73 - E77	Control, Selection, Working Memory
	E78 - E85	Language Disorders

Poster Sessions

Poster Session A

Methods

A1 Testing the validity of wireless EEG for cognitive research with auditory and visual paradigms *Ethan Weed¹, Alexandra R. Kratschmer¹, Michael N. Pedersen¹; ¹Aarhus University*

A2 A data-driven parcellation of structural language networks using probabilistic tractography and automated meta-analysis *Jonathan O'Muircheartaigh¹, Jonathan O'Muircheartaigh¹; ¹Department of Neuroimaging, King's College London*

A3 Word frequency in context shows differential effects on fixation-related potentials and eye fixations *Franziska Kretschmar^{1,2}, Matthias Schlesewsky², Adrian Staub³; ¹Philipps University Marburg, ²Johannes Gutenberg University Mainz, ³University of Massachusetts Amherst*

A4 High-definition transcranial direct current stimulation of single word processing *Svetlana Malyutina¹, Dirk-Bart den Ouden¹; ¹University of South Carolina*

A5 Neural signatures of incremental text processing correlate with word entropy in a natural story context *Phillip Alday¹, Jona Sassenhagen¹, Ina Bornkessel-Schlesewsky^{1,2}; ¹University of Marburg, ²University of South Australia*

Gesture, Prosody, Social and Emotional Processes

A6 Prosody conveys speakers' intentions: Acoustic cues for speech act perception *Nele Hellbernd¹, Daniela Sammler¹; ¹Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany*

A7 Investigating the acoustic and emotional properties of evoked and emitted laughter. *Carolyn McGettigan¹, Nadine Lavan¹, Eamonn Walsh², Zarinah Agnew³, Rosemary Jessop⁴, Sophie Scott⁴; ¹Royal Holloway, University of London, ²King's College, University of London, ³UCSF, ⁴University College London*

A8 Profiles of age-related structural decline and stability in neuroanatomical systems supporting vocal emotion processing *Cesar Lima^{1,2}, Nadine Lavan³, Samuel Evans¹, Zarinah Agnew⁵, Pradheep Shanmugalingam¹, Jane Warren⁴, São Luís Castro², Sophie Scott¹; ¹Institute of Cognitive Neuroscience, University College London, ²Center for Psychology, University of Porto, ³Royal Holloway, University of London, ⁴Faculty of Brain Sciences, University College London, ⁵UCSF School of Medicine*

A9 Perceptual and Physiological Differences Between Genuine and Posed Emotional Vocalizations *Sinead H.Y. Chen¹, Samuel Evans¹, César Lima^{1,2}, Naiara Demnitz¹, Dana Boebinger¹, Sophie Scott¹; ¹University College London, ²University of Porto*

Auditory Perception, Speech Perception, Audiovisual Integration

A10 Cortical oscillations and spiking activity associated with Artificial Grammar Learning in the monkey auditory cortex *Yukiko Kikuchi¹, Adam Attaheri¹, Alice Milne¹, Benjamin Wilson¹, Christopher I. Petkov¹; ¹Institute of Neuroscience, Newcastle University*

A11 Relationship between individual differences in cognitive abilities and tone processing in the context of sound change *Jinghua Ou¹, Roxana Fung², Sam-Po Law¹, Sabrina Ho¹; ¹Division of Speech and Hearing Sciences, University of Hong Kong, Hong Kong SAR, ²Department of Chinese and Bilingual Studies, Hong Kong Polytechnic University, Hong Kong SAR*

A12 Compensatory mechanisms for processing speech in noise in older adults *Samuel Evans¹, Dana Boebinger¹, Cesar Lima^{1,2}, Stuart Rosen¹, Markus Ostarek¹, Angela Richards¹, Carolyn McGettigan¹, Zarinah Agnew^{1,3}, Sophie Scott¹; ¹University College London, ²University of Porto, ³University of California, San Francisco*

A13 Tracking the time course of the processing of reduced infinitives: An ERP study *Kimberley Mulder¹, Linda Drijvers¹, Mirjam Ernestus¹; ¹Radboud University Nijmegen*

A14 Attention to speech sounds within auditory scenes modifies temporal auditory cortical activity *Hanna Renvall¹, Jaeho Seol¹, Riku Tuominen¹, Riitta Salmelin¹; ¹Aalto University, Finland*

A15 Differential Lateralization of Linguistic Prosody in Comparison to Speech and Speaker Processing *Jens Kreitewolf¹, Angela D. Friederici¹, Katharina von Kriegstein^{1,2}; ¹Max Planck Institute for Human Cognition and Brain Sciences, D-04103 Leipzig, Germany, ²Humboldt University of Berlin, D-12489 Berlin, Germany*

A16 Differences in Language and Music Processing: Auditory, Motor and Emotional Networks *John Payne¹, Greg Hickok¹, Corianne Rogalski²; ¹University of California, Irvine, ²Arizona State University*

A17 I thought that I heard you laughing: Contextual facial expressions modulate the perception of authentic laughter and crying *Nadine Lavan¹, Cesar F Lima^{2,3}, Hannah Harvey¹, Sophie K Scott³, Carolyn McGettigan^{1,3}; ¹Department of Psychology, Royal Holloway, University of London, ²Centre for Psychology, University of Porto, ³Institute of Cognitive Neuroscience, University College London*

A18 Temporal locus of interaction of phonetic and talker processing in speech perception: An ERP study *Caicai Zhang^{1,2}, Kenneth R. Pugh^{3,4,5}, W. Einar Mencl^{3,4}, Peter J. Molfese³, Stephen J. Frost³, James S. Magnuson^{3,5}, Gang Peng^{1,2,6}, William S-Y. Wang¹; ¹CUHK-PKU-UST Joint Research Centre for Language and Human Complexity, ²The Chinese University of Hong Kong, ³Haskins Laboratories, ⁴Yale University, ⁵University of Connecticut, ⁶Shenzhen Institutes of Advanced Technology*

A19 The melody of speech: what can event-related potentials tell us about emotional prosody processing? Ana Pinheiro¹; ¹School of Psychology, University of Minho, Braga, Portugal

A20 On the lateralisation of pitch processing: language makes the switch from right to left Tomás Goucha^{1,2}, Jens Kreitewolf¹, Angela D. Friederici^{1,2}; ¹Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, ²Berlin School of Mind and Brain, Berlin

Orthographic Processing, Writing, Spelling

A21 Delineating Picture and Chinese Character Recognition: An ERP Approach I-Fan Su¹, Sam-Po Law¹, Hiu-Lam Helen Lui¹; ¹The University of Hong Kong

A22 Letter position sensitivity in the VWFA: Evidence from multivariate searchlight analyses in MEG-EEG source space Jana Klimova¹, Caroline Whiting^{1,2}, Samarth Varma^{1,3}, William Marslen-Wilson^{1,2}; ¹University of Cambridge, Cambridge, UK, ²MRC Cognition & Brain Sciences Unit, Cambridge, UK, ³Donders Centre for Cognition, Radboud University Nijmegen, The Netherlands

A23 Neural dissociation between letters and digits writing: Evidence from coupled kinematics and fMRI recordings Marieke Longcamp¹, Aurélie Lagarrigue¹, Nazarian Bruno², Roth Muriel², Anton Jean-Luc², Alario François-Xavier³, Velay Jean-Luc¹; ¹LNC, Aix-Marseille University and CNRS, ²fMRI center, INT, Aix-Marseille University and CNRS, ³LPC, Aix-Marseille University and CNRS

A24 The Temporal Dynamics of Visual Word Recognition in Deaf Adults Karen Emmorey¹, Katherine Midgley¹, Jonathan Grainger^{2,3}, Phillip Holcomb^{1,2}; ¹San Diego State University, ²Aix-Marseille Université, ³Tufts University, ⁴CNRS

Phonology, Phonological Working Memory

A25 Contributions of phonetically- and phonologically-driven alternations in speech perception: an ERP study Laurie Lawyer¹, David P. Corina¹; ¹Center for Mind and Brain, University of California, Davis

A26 Sound of emotion in written words Susann Ullrich¹, Sonja A. Kotz², David S. Schmidtke¹, Arash Aryani¹, Arthur M. Jacobs¹, Markus Conrad³; ¹Freie Universität Berlin, Germany, ²University of Manchester, England, U.K., ³Universidad de La Laguna, Tenerife, Spain

A27 Fractional anisotropy of the arcuate/superior longitudinal fasciculus predicts verbal-working-memory span in a large sample Benedict Vassileiou^{1,2}, Lars Meyer¹, Claudia Männel¹, Isabell Wartenburger², Anna Strotseva¹, Angela D. Friederici¹; ¹Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, ²University of Potsdam, Germany

A28 Talking sense: multisensory integration of Japanese ideophones is reflected in the P2. Gwilym Lockwood^{1,2}, Jyrki Tuomainen², Peter Hagoort¹; ¹Max Planck Institute for Psycholinguistics, ²University College London

Language Development, Plasticity, Multilingualism

A29 Brain activation to human vocalisations and environmental sounds in infancy and its association with later language development Evelynne Mercure¹, Sarah Lloyd-Fox², Anna Blasi², Clare E Elwell¹, Mark H Johnson², The BASIS Team³; ¹University College London, ²Birkbeck College, University of London, ³The BASIS Team : Helena Ribeiro, Kim Davies, Helen Maris, Leslie Tucker

A30 Predictive coding mediates word recognition and learning in 12- and 24-month-old children Sari Ylinen¹, Alexis Bosseler¹, Katja Junntila¹, Minna Huottilainen^{1,2,3}; ¹University of Helsinki, ²University of Jyväskylä, ³Finnish Institute of Occupational Health

A31 Fading out a foreign language Jon Andoni Duñabeitia¹, Manuel Carreiras^{1,2,3}, Alejandro Pérez¹; ¹Basque Center on Cognition, Brain and Language (BCBL); Donostia, ²Ikerbasque, Basque Foundation for Science; Bilbao, ³University of the Basque Country; Bilbao

A32 Eye-tracking reveals incremental processing of words in 18-month-olds Angelika Becker¹, Ulrike Schild², Claudia Friedrich²; ¹University of Hamburg, ²University of Tübingen

A33 Out of use, out of mind? First language processing in a Dutch emigrant population in Anglophone North America Bregtje Seton¹, Susanne M. Brouwer², Laurie A. Stowe¹, Monika S. Schmid^{1,3}; ¹University of Groningen, ²Utrecht University, ³University of Essex

A34 Neural reflections of individual differences in artificial grammar learning Anne van der Kant^{1,2}, Niels Schiller¹, Claartje Levelt¹, Eveline Crone¹, Annemie Van der Linden²; ¹Leiden University, ²University of Antwerp

A35 Infants can perceive audiovisual speech asynchrony (if it's asynchronous enough) Heather Bortfeld^{1,2}, Kathleen Shaw¹, Martijn Baart³; ¹University of Connecticut, ²Haskins Laboratories, ³Basque Center on Brain and Language

A36 Adult listeners shift their established phoneme boundaries after 9 minutes of distributional training: evidence from ERP measurements Kateřina Chládková¹, Paola Escudero²; ¹University of Amsterdam, the Netherlands, ²University of Western Sydney, Australia

A37 Auditive training effect in children using a dichotic listening paradigm. A pilot study. Turid Helland^{1,2}, Hanna V. Valderhaug¹, Josef J. Bless¹, Wenche Helland^{1,3,4}, Frøydis Morken¹, Janne v.K Torkildsen⁵; ¹University of Bergen, ²University of Tromsø, ³Helse Fonna, Norway, ⁴Statped, Norway, ⁵University of Oslo

A38 Functional connectomes in monolingual and bilingual infants during resting state Monika Molnar¹, Borja Blanco¹, Manuel Carreiras^{1,2,3}, Cesar Caballero-Gaudes¹; ¹Basque Center on Cognition, Brain, and Language (BCBL), Donostia, Spain, ²IKERBASQUE. Basque Foundation for Science, Bilbao, Spain, ³University of the Basque Country, UPV/EHU, Spain

A39 White matter disruption and language processing in traumatic brain injury Karine Marcotte^{1,2}, Edith Durand^{1,2}, Caroline Arbour^{2,3}, Pierre-Olivier Gaudreault^{2,3}, Nadia Gosselin^{2,3}; ¹École d'orthophonie et d'audiologie, Faculté de Médecine, Université de Montréal, Montréal, Canada, ²Centre de recherche de l'Hôpital

du Sacré-Cœur de Montréal, Montreal, Canada, ³Département de psychologie, Faculté des arts et sciences, Université de Montréal, Montréal, Canada

A40 Depth of encoding through gestures in foreign language word learning Manuela Macedonia^{1,2}, Claudia Repetto³, Anja Ischebeck⁴; ¹Johannes Kepler University Linz (Austria), ²Max Planck Institute for Human Brain Sciences Leipzig (Germany), ³Università Cattolica Milan (Italy), ⁴University of Graz (Austria)

Lexical Semantics

A41 An electrophysiological investigation of the distractor frequency effect in picture-word interference Stephanie K. Ries¹, Greig de Zubicaray², Douglas Fraser², Katie McMahon²; ¹University of California, Berkeley, ²University of Queensland

A42 Investigating the processing of conceptual components in language production Alexandra Redmann^{1,2}, Ian FitzPatrick^{1,2}, Frauke Hellwig^{1,2}, Peter Indefrey^{1,2}; ¹Heinrich Heine University Düsseldorf, ²Radboud University Nijmegen

A43 Classifier Information Affects Speech Production: Electrophysiological Evidence from Overt Speech in Mandarin Chinese Man Wang^{1,2}, Yiya Chen^{1,2}, Niels O. Schiller^{1,2}; ¹Leiden Institute for Brain and Cognition (LIBC), Leiden, The Netherlands, ²Leiden University Centre for Linguistics (LUCL), Leiden, The Netherlands

A44 Visually perceived spatial distance modulates an early neural response to different semantic relations Ernesto Guerra^{1,3}, Melissa Troyer², Ben D. Amsel², Thomas P. Urbach², Katherine A. DeLong², Pia Knoeferle¹, Marta Kutas²; ¹Bielefeld University, Germany, ²University of California San Diego, USA, ³Max Planck Institute for Psycholinguistics, The Netherlands

A45 Interference from related actions in spoken word production: an fMRI study Greig de Zubicaray¹, Douglas Fraser², Kori Johnson¹, Katie McMahon³; ¹School of Psychology, University of Queensland, ²Centre for Clinical Research, University of Queensland, ³Centre for Advanced Imaging, University of Queensland

A46 Neural dynamics of lexical-semantic processes during word production: Action verbs, action nouns and object nouns Raphael Fargier¹, Marina Laganaro¹; ¹FAPSE, University of Geneva, Geneva, Switzerland.

A47 Similarities and differences in the semantic representations of words and objects: evidence from multi-voxel pattern analyses Barry Devereux¹, Alex Clarke¹, Andreas Marouchos¹, Lorraine K. Tyler¹; ¹University of Cambridge

A48 Oscillatory responses to highly predictable words differentiate between expectations based on semantic or associative contextual constraints. Irene Fernandez Monsalve¹, Alejandro Perez¹, Nicola Molinaro^{1,2}; ¹Basque Center on Cognition, Brain and Language (BCBL), ²Ikerbasque, Basque Foundation for Science

A49 Ventral and dorsal reading networks are modulated by task demands and language orthography: Regional and functional connectivity evidence. Myriam Oliver¹, Manuel Carreiras^{1,2,3}, Pedro M. Paz-Alonso¹; ¹Basque Center on Cognition, Brain and Language (BCBL), Donostia-San Sebastián,

Spain, ²IKERBASQUE, Basque Foundation for Science, Bilbao, Spain, ³Departamento de Lengua Vasca y Comunicación, UPV/EHU, Bilbao, Spain

A50 Do semantic representations automatically activate their corresponding phonological and orthographic representations? Orna Peleg¹, Lee Edelist¹, Dafna Bergerbest², Zohar Eviatar³; ¹Tel-Aviv University, ²Academic College of Tel-Aviv Yaffo, ³University of Haifa

A51 Semantic conflict resolution abilities among adults with and without ADHD Dorit Segal¹, Nira Masha^{2,3}, Lilach Shalev^{4,5}; ¹School of Education, the Hebrew University of Jerusalem, Israel, ²School of Education, Bar Ilan University, Ramat-Gan, Israel, ³Gonda Multidisciplinary Brain Research Center, Bar Ilan University, Ramat-Gan, Israel, ⁴School of Education, Tel-Aviv University, Israel, ⁵School of Neuroscience, Tel-Aviv University, Israel

A52 Semantic association and categorical relatedness of semantic processing in youths with autism spectrum disorder Ciao-Han Wong¹, Susan Shur-Fen Gau^{1,2,3,4}, Tai-Li Chou^{1,3,4}; ¹Department of Psychology, National Taiwan University, Taiwan, ²Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taiwan, ³Neurobiology and Cognitive Science Center, National Taiwan University, Taiwan, ⁴Graduate Institute of Brain and Mind Sciences, National Taiwan University, Taiwan

A53 Feature co-occurrence is central to the representation of conceptual knowledge: Evidence from feature verification tasks, using true and false features Billi Randall¹, Lorraine K. Tyler¹, Barry J. Devereux¹; ¹University of Cambridge

Discourse, Combinatorial Semantics

A54 The dynamics of information integration in the brain during story reading Leila Wehbe¹, Ashish Vaswani², Kevin Knight², Tom Mitchell¹; ¹Carnegie Mellon University, ²University of Southern California

A55 How minds meet: Cerebral coherence between communicators marks the emergence of meaning Arjen Stolk¹, Matthijs Noordzij², Lennart Verhagen¹, Inge Volman¹, Jan-Mathijs Schoffelen^{1,3}, Robert Oostenveld¹, Peter Hagoort^{1,3}, Ivan Toni¹; ¹Radboud University Nijmegen, ²University of Twente, ³Max Planck Institute for Psycholinguistics

A56 The Truth Before and After: Temporal Connectives Modulate Online Sensitivity to Truth-value Mante S. Nieuwland¹; ¹University of Edinburgh, UK

A57 Time for prediction? The effect of presentation rate on the implementation of anticipatory language comprehension mechanisms Edward W. Wlotko¹, Kara D. Federmeier²; ¹Tufts University, ²University of Illinois at Urbana-Champaign

A58 Impairments in cognitive control modulate adaptation during comprehension of cartoon-like stories Tamara Swaab¹, Megan Boudewyn¹, Debra Long¹, George Mangun¹, Matthew Traxler¹, Cameron Carter¹; ¹UC Davis

Syntax, Morphology

A59 Music and language syntax interact in Broca's area: an fMRI study

Richard Kunert^{1,2}, Roel Willems^{1,2}, Daniel Casasanto³, Aniruddh Patel⁴, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behavior, Nijmegen, The Netherlands, ³Psychology Department, University of Chicago, Chicago, IL, ⁴Tufts University, Medford, MA

A60 Neurophysiological evidence for whole form retrieval of complex derived words: a mismatch negativity study

Jeff Hanna¹, Friedemann Pulvermüller¹; ¹Brain Language Laboratory, Free University Berlin

A61 Competition and prediction in the auditory processing of morphologically complex words

Tal Linzen¹, Phoebe Gaston¹, Laura Gwilliams², Alec Marantz^{1,2}; ¹New York University, ²NYUAD Institute, New York University, Abu Dhabi

A62 Oscillatory dynamics of syntactic unification

Katrien Segaert^{1,2}, Ali Mazaheri³, Rene Scheeringa², Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, ²Donders Institute for Brain, Cognition and Behavior, ³Academic Medical Centre, University of Amsterdam

A63 'Semantic blocking' solved at last: ERP evidence challenging syntax-first models

Stefanie Nickels^{1,2}, Fayden Sara Bokhari¹, Karsten Steinhauer^{1,2}; ¹McGill University, ²Centre for Research on Brain, Language and Music (CRBLM)

A64 Neurobiological attention mechanisms of syntactic and prosodic focusing in spoken language

Diana Dimitrova^{1,2}, Tineke Snijders^{1,2}, Peter Hagoort^{1,3}; ¹Donders Institute for Brain, Cognition and Behaviour, Centre for Cognitive Neuroimaging, ²Radboud University Nijmegen, Centre for Language Studies, ³Max Planck Institute for Psycholinguistics

A65 Distribution of grammatical functions across bihemispheric and left fronto-temporal networks

Mirjana Bozic^{1,2}, Christina Ye^{1,2}, William Marslen-Wilson^{1,2}; ¹Department of Psychology, University of Cambridge, ²MRC Cognition and Brain Sciences Unit, Cambridge, UK

A66 What happened to the crying bird? – Differential roles of embedding depth and topicalization modulating syntactic complexity in sentence processing.

Carina Krause¹, Bernhard Sehm^{1,2}, Anja Fengler¹, Angela D. Friederici¹, Hellmuth Obrig^{1,2}; ¹Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, ²Clinic for Cognitive Neurology, University Hospital and Faculty of Medicine Leipzig, Germany

A67 Multivariate pattern of inflectional and phrasal computations revealed by combined MEG-EEG

Elisabeth Fonteneau^{1,2}, Mirjana Bozic^{1,2}, William Marslen-Wilson^{1,2}; ¹Department of Psychology, University of Cambridge, ²MRC Cognition and Brain Sciences Unit, Cambridge, UK

A68 Attention modulates explicit knowledge of language structures reflected in encoding differences during learning

Ruth De Diego-Balaguer^{1,2,3}, Diana Lopez-Barroso⁴, David Cucurell⁵, Nuria Sagarrà⁶; ¹ICREA, Catalan Institution of Research and Advanced Studies, Barcelona, Spain, ²Universitat de Barcelona, Dept de Psicologia Bàsica, ³IDIBELL, Bellvitge Biomedical Research Institute, ⁴ICM, Institut du Cerveau

et de la Moelle Épine, Groupe Hospitalier Pitié-Salpêtrière, Paris, France, ⁵Fundació Bosch i Gimpera, Barcelona, Spain, ⁶Rudgers State University, Dept of Spanish and Portuguese, New Brunswick, USA

A69 Reference to the past visualized in the brain

Laura S. Bos^{1,2,3}, Jan Ries², Roelien Bastiaanse³, Isabell Wartenburger²; ¹International Doctorate for Experimental Approaches to Language and Brain (IDEALAB), Universities of Groningen (NL), Newcastle (UK), Potsdam (DE), Trento (IT) & Macquarie University, Sydney (AU), ²University of Potsdam (Potsdam, DE), ³University of Groningen (Groningen, NL)

A70 Time course of noun phrase production by German-French bilinguals

Audrey Bürki^{1,3}, Marina Laganaro¹, Jasmin Sadat², Alario Xavier³; ¹University of Geneva, Switzerland, ²Royal Holloway, University of London, UK, ³CNRS and Aix-Marseille Université, France

Control, Selection, Working Memory

A71 Older Adults Fail to Show Activity Increases for Inhibition on Hayling Task

Bruce Crosson^{1,2,3}, Ilana Levy⁴, Stephen Towler^{1,2}, Michelle Benjamin⁵, Keith McGregor^{1,2}, Jamie Reilly⁶; ¹VA RR&D Center for Visual & Neurocognitive Rehabilitation, ²Emory University, ³Georgia State University, ⁴University of Florida, ⁵University of Alabama, Birmingham, ⁶Temple University

A72 Bilingual Language Control in Aging: Effects of Individual Differences in Executive Functions. An rTMS Study

Aruna Sudarshan^{1,2}, Shari Baum^{1,2}; ¹School of Communication Sciences & Disorders, McGill University, Montreal, Canada, ²Centre for Research on Brain, Language & Music, McGill University, Montreal, Canada

A73 The Neural Correlates of Individual Differences in Bilingual Language Control

Brianna L. Yamasaki¹, Andrea Stocco¹, Chantel S. Prat¹; ¹University of Washington

A74 Shared neural processes support semantic control and action understanding

James Davey¹, Shirley-Ann Rueschemeyer¹, Alison Costigan¹, Nik Murphy¹, Katya Krieger-Redwood¹, Glyn Hallam¹, Elizabeth Jefferies¹; ¹University of York and York Neuroimaging Centre, UK

A75 Broca's region and visual word form area activation during a predictive stroop task

Mikkel Wallentin^{1,2}, Claus H. Gravholt^{3,4}, Anne Skakkebaek³; ¹Center of Functionally Integrative Neuroscience, Aarhus University Hospital, building 10-G-5, Nørrebrogade, 8000 Aarhus C, Denmark, ²Center for Semiotics, Aarhus University, Denmark, ³Department of Endocrinology and Internal Medicine (MEA), Aarhus University Hospital, 8000 Aarhus C, Denmark, ⁴Department of Molecular Medicine, Aarhus University Hospital, 8200 Aarhus N, Denmark

A76 Neural Basis of Sensitivity to Interference during Sentence Comprehension

Julie Van Dyke¹, W. Einar Mencl¹, Hannah R. Jones¹, Stephen J. Frost¹, Clinton L. Johns¹, Morgan Bontrager¹, Dave Kush¹; ¹Haskins Laboratories, ²Yale University, ³University of Connecticut

Language Disorders

A77 Neurophysiological alterations during phoneme and word processing in the acute stage of aphasia Annelies Aerts^{1,2}, Pieter van Mierlo¹, Robert J. Hartsuiker¹, Patrick Santens^{1,2}, Miet De Letter^{1,2}; ¹Ghent University, Ghent, Belgium, ²Ghent University Hospital, Ghent, Belgium

A78 Abnormal cortical processing of speech and corresponding nonspeech sounds in preschoolers with Asperger syndrome Soila Kuuluvainen¹, Teija Kujala¹; ¹University of Helsinki

A79 fMRI reveals atypical processing of letters and speech sounds in beginning readers at family risk for dyslexia Katarzyna Chyl^{1,2}, Anna Banaszkiewicz^{1,2}, Agnieszka Dębska^{1,2}, Magdalena Łuniewska^{1,2}, Agata Żelechowska^{1,2}, Marek Wypych¹, Artur Marchewka¹, Katarzyna Jednoróg¹; ¹Nencki Institute of Experimental Biology, ²University of Warsaw

A80 Self-monitoring after stroke: A case study Sophie Meekings¹, Samuel Evans¹, Fatemeh Geranmayeh², Richard Wise², Sophie Scott¹; ¹University College London, ²Imperial College London

A81 Neural coherence during natural story listening as a biomarker for Autism Jonathan Brennan¹, Neelima Wagley¹, Margaret Ugolini¹, Annette Richard², Ioulia Kovelman¹, Susan Bowyer³, Renee Lajiness-O'Neill²; ¹University of Michigan, ²Eastern Michigan University, ³Henry Ford Hospital

A82 Atypical skill acquisition in children with language impairment Esther Adi-Japha^{1,2}, Mona Julius¹; ¹School of Education, Bar-Ilan University, Israel, ²The Leslie and Susan Gonda (Goldschmied) Multidisciplinary Brain Research Center, Bar-Ilan University, Israel

A83 The role of the right hemisphere in semantic control Hannah Thompson¹, Beth Jefferies¹; ¹University of York

A84 Neurophysiological changes associated with anodal, cathodal and sham tDCS in chronic aphasia Leora R. Cherney^{1,2}, Xue Wang², Lynn M. Rogers^{1,2}, Todd Parrish²; ¹Rehabilitation Institute of Chicago, ²Northwestern University

A85 Structure-behavior Correspondences for Canonical Sentence Comprehension in Broca's Aphasia Michelle Ferrill¹, Matthew Walenski², Tracy Love^{1,2,3}, Peter Pieperhoff⁴, Katrin Amunts⁴, Natalie Sullivan¹, Shannon MacKenzie¹, Lewis P. Shapiro^{1,2}; ¹SDSU/UCSD Joint Doctoral Program in Language and Communicative Disorders, ²School of Speech Language and Hearing Sciences, San Diego State University, ³Center for Research in Language, University of California, San Diego, ⁴Institut für Neurowissenschaften und Medizin (INM-1), Forschungszentrum Jülich GmbH

A86 Graph-theoretic analysis of resting state brain networks in post-stroke aphasia Jason W. Bohland¹, Kushal Kapse¹, Swathi Kiran¹; ¹Boston University, Boston, MA USA

Poster Session B

Gesture, Prosody, Social and Emotional Processes

B1 Altered communicative adjustments following ventromedial prefrontal lesions Ivan Toni¹, Daniela D'Imperio², Giuseppe di Pellegrino², Arjen Stolk¹; ¹Donders Institute

for Brain, Cognition and Behaviour, Radboud University, The Netherlands, ²Dipartimento di Psicologia, Università di Bologna, Italy

B2 Job interview in the fMRI scanner: pragmatic inferences in real addressees Jana Basnakova^{1,2}, Kirsten Weber^{3,6}, Peter Hagoort^{1,3}, Jos van Berkum⁴; ¹Max Planck Institute for Psycholinguistics, Nijmegen, NL, ²Institute for Experimental Psychology, SAS, Slovakia, ³Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, NL, ⁴Department of Languages, Literature and Communication, Faculty of Humanities, Utrecht University, NL, ⁵Massachusetts General Hospital, Boston, USA, ⁶Harvard Medical School, Boston, USA

B3 The Social N400 effect: how the presence of other listeners affects language comprehension Shirley-Ann Rueschemeyer¹, Tom Gardner², Cat Stoner¹; ¹University of York, ²University of Bangor

B4 Social coordination in Amyotrophic lateral sclerosis Elizabeth Gjerstad¹, Nicola Spoto¹, Ashley Boller-Hewitt¹, Lauren Elman², Leo McCluskey², John Woo², Katya Raskovsky¹, Robin Clark³, Corey McMillan¹, Murray Grossman¹; ¹Penn Frontotemporal Degeneration Center, Department of Neurology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA, ²Penn ALS Center, Department of Neurology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA, ³Department of Linguistics, University of Pennsylvania, Philadelphia, PA, USA

B5 Navigating others' minds automatically: Evidence from the temporal-parietal junction Mariana Aparicio Betancourt¹, Charline E. Simon¹, Daniel C. Hyde¹; ¹University of Illinois at Urbana-Champaign

B6 Neural basis of social coordination deficits in bvFTD Meghan Healey¹, Stephanie Golob¹, Nicola Spoto¹, Robin Clark¹, Corey McMillan¹, Murray Grossman¹; ¹University of Pennsylvania

Auditory Perception, Speech Perception, Audiovisual Integration

B7 Top-down modulation of cortical responses to voice and speech: developmental changes from childhood to adulthood Milene Bonte^{1,2}, Anke Ley^{1,2}, Elia Formisano^{1,2}; ¹Maastricht Brain Imaging Center, ²Dept. Cognitive Neuroscience, Faculty of Psychology and Neuroscience, Maastricht University

B8 Eye gaze during perceptual adaptation of audiovisual speech in adverse listening conditions Briony Banks¹, Emma Gowen¹, Kevin Munro¹, Patti Adank^{1,2}; ¹University of Manchester, ²University College London

B9 White matter changes in the visual pathways of late-blind subjects correlate with the ability of ultra-fast speech perception Susanne Dietrich¹, Ingo Hertrich¹, Hermann Ackermann¹; ¹University of Tuebingen

B10 Within-block amplification of the mismatch negativity suggests rapid phonetic learning for non-native categories Kateřina Chládková¹, Paola Escudero²; ¹University of Amsterdam, the Netherlands, ²University of Western Sydney, Australia

B11 Shape-sound matching abilities are limited in young monolingual and bilingual infants Jovana Pejovic¹, Monika Molnar¹, Clara Martin¹, Eiling Yee¹; ¹Basque Center on Cognition, Brain and Language (BCBL)

B12 Corticostriatal contributions to feedback-dependent speech category learning Bharath Chandrasekaran¹, Han Gyo-Yi¹, W. Todd Maddox²; ¹Communication Sciences and Disorders, The University of Texas at Austin, ²Department of Psychology, The University of Texas at Austin

B13 The development of internal representations of sound categories Sung-Joo Lim^{1,2,3}, Andrew J. Lotto⁴, Jonas Obleser³, Lori L. Holt^{1,2}; ¹Carnegie Mellon University, ²Center for the Neural Basis of Cognition, ³Max Planck Institute for Human Cognitive and Brain Sciences, ⁴University of Arizona

B14 Neural processing of speech envelope modulations in normal and dyslexic readers: Source analysis of auditory steady-state responses Astrid De Vos^{1,2}, Robert Luke¹, Jolijn Vanderauwera^{1,2}, Pol Ghesquière², Jan Wouters¹; ¹KU Leuven, Experimental oto-rhino-laryngology, Leuven (Belgium), ²KU Leuven, Parenting and special education research group, Leuven (Belgium)

B15 Electrophysiological differences in 6-month-old infants at risk for Autism Spectrum Disorder: Evidence from the processing of non-native language contrasts Sharon Coffey-Corina^{1,2}, Denise Padden², Cherie Percaccio², Patricia Kuhl²; ¹UC Davis, Center for Mind and Brain, ²University of Washington Institute for Learning and Brain Sciences

B16 TMS to bilateral posterior Superior Temporal Gyrus impairs perception of intelligible speech Dan Kennedy-Higgins¹, Joseph T. Devlin¹, Stuart Rosen¹, Steve Nevard¹, Helen Nuttall¹, Patti Adank¹; ¹University College London

B17 Auditory evoked potentials and chronic aphasia Pricila Sleifer¹, Lenisa Brandão¹, Kamila Grotto¹, Amanda Berticelli Zanatta¹, Audrei Thayse Viegol de Ávila¹; ¹Universidade Federal do Rio Grande do Sul

Motor Control, Speech Production, Sensorimotor Integration

B18 An Executive Approach to Speech Production: Linguistic Hierarchies in the Rostro-Caudal Axis of the (Pre-)frontal Cortex Nicolas Bourguignon^{1,2,3}, Vincent L. Gracco^{3,4}, Douglas M. Shiller^{1,2,3}; ¹Research Center, Sainte-Justine Hospital, Université de Montréal, Montreal, QC, Canada, ²School of Speech Pathology and Audiology, Université de Montréal, Montreal, QC, Canada, ³Centre for Research on Brain, Language and Music, McGill University, Montreal, QC, Canada, ⁴School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada

B19 Tracking the Time Course of Competition During Word Production: Evidence for a Post-Retrieval Mechanism of Conflict Resolution Niels Janssen¹, Juan A. Hernández-Cabrera^{1,2}, Maartje van der Meij¹, Horacio A. Barber^{1,2}; ¹Universidad de La Laguna, Tenerife, Spain, ²Basque Center on Cognition, Brain and Language, Spain

B20 Emotional Context modulates Embodied Metaphor Comprehension Dalya Samur¹, Vicky Tzuyin Lai^{2,3}, Peter Hagoort^{1,2}, Roel Willems^{1,2}; ¹Donders Institute for Brain, Cognition and Behavior, ²Max Planck Institute for Psycholinguistics, ³University of South Carolina

B21 Investigating the brain's grasp areas through the Chinese 'grasp' classifier; a case for the Mirror System Hypothesis Marit Lobben¹, Laura Wortinger Bakke¹; ¹Department of psychology, University of Oslo, ²Department of psychology, University of Oslo

B22 White matter fiber tracking in left Arcuate Fascicle reveals individual differences in aptitude for phonetic speech imitation Susanne Reiterer^{1,2}, Lucia Vaquero³, Antoni Rodriguez-Fornells³; ¹Unit for Language Learning and Teaching Research, Philological Faculty of the University of Vienna, Austria, ²University Clinic Tübingen, former Section of Experimental MR of the CNS, Tübingen, Germany, ³Cognition and Brain Plasticity Group, University of Barcelona & IDIBELL, Barcelona, Spain.

B23 Vocal learning and the importance of noise Anna J Simmonds¹, Richard J S Wise¹, Robert Leech¹; ¹Imperial College London

B24 What you learn is what you get: Why inferior frontal cortex is involved in language understanding Friedemann Pulvermüller¹, Max Garagnani^{1,2}; ¹Freie Universität Berlin, ²University of Plymouth

Language Development, Plasticity, Multilingualism

B25 Losing control: an investigation of lexical processing in adult second language learners Angela Grant¹, Ping Li¹; ¹The Pennsylvania State University

B26 The role of natural cues in language selection: MEG evidence from English-Arabic bilinguals during number naming Estibaliz Blanco Elorrieta¹, Liina Pykkänen^{1,2}; ¹NYUAD Institute, New York University, Abu Dhabi, ²New York University

B27 Thickness Asymmetry in Language-Relevant Cortex: Effects of Bilingualism Christine Chiarello¹, Aurora I. Ramos², David Vazquez¹, Maya Ravid², Adam Daily¹, Adam Felton¹, Arturo E. Hernandez²; ¹University of California, Riverside, ²University of Houston

B28 Functional and Anatomical Changes as a Function of Second Language Learning Jennifer Legault¹, Shin-Yi Fang¹, Shinmin Wang², Yu-Ju Lan², Ping Li¹; ¹Pennsylvania State University, ²National Taiwan Normal University

B29 Domain-general cognitive control vs language-specific inhibitory control in multilingual language switching Wouter De Baene^{1,2}, Wouter Duyck¹, Marcel Brass¹, Manuel Carreiras^{2,3}; ¹Ghent University, Belgium, ²Basque Center on Cognition, Brain and Language (BCBL), Donostia-San Sebastian, Spain, ³IKERBASQUE. Basque foundation for Science, Bilbao, Spain

B30 Distributed neural representations of logical relations in school-age children Romain Mathieu¹, James R. Booth², Jérôme Prado^{1,2}; ¹Laboratoire Langage, Cerveau et Cognition (L2C2), CNRS/Université Lyon 1, Lyon, FRANCE, ²Northwestern University, Evanston, IL, USA

B31 Preserved language comprehension with age and its relationship to cognitive control Karen L Campbell¹, Cam-CAN², Lorraine K Tyler¹; ¹University of Cambridge, ²Cambridge Centre for Ageing and Neuroscience (Cam-CAN), University of Cambridge and MRC Cognition and Brain Sciences Unit

B32 It's good to see you again: Bilinguals rely on visual interlocutor identity for activating appropriate language modes

Clara Martin^{1,2}, Monika Molnar¹, Manuel Carreiras^{1,2,3};
¹Basque Center on Cognition, Brain, and Language (BCBL), Donostia, Spain, ²IKERBASQUE. Basque Foundation for Science, Bilbao, Spain, ³University of the Basque Country, UPV/EHU, Spain

B33 Examining the pillars of Translanguaging

Anna Beres¹, Manon Jones¹, Guillaume Thierry¹; ¹Bangor University, UK

B34 Learning Novel Words through Enactment: A Combined Behavioral and fMRI Study

Manuela Macedonia¹, Alexander Heidekum³, Anja Ischebeck³; ¹University of Linz (Austria), Department of Information Engineering, ²Max Planck Institute for Cognitive and Brain Sciences Leipzig (Germany), Research Group Neural Mechanisms of Human Communication, ³University of Graz, Department of Psychology, Group Cognitive Psychology and Neuroscience

B35 Asymmetry within and around the planum temporale is sexually dimorphic and influenced by genes involved in steroid biology

Tulio Guadalupe¹, Marcel Zwiers², Katharina Wittfeld³, Alexander Teumer⁴, Alejandro Arias Vasquez⁵, Martine Hoogman^{1,5}, Peter Hagoort^{1,2}, Guillen Fernandez^{2,5}, Hans Grabe⁴, Simon Fisher^{1,2}, Clyde Francks^{1,2}, et al...⁶; ¹Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, ²Donders Center for Cognitive Neuroimaging, Nijmegen, the Netherlands, ³German Center for Neurodegenerative Diseases (DZNE), Greifswald, Germany, ⁴University Medicine Greifswald, Greifswald, Germany, ⁵Radboud University Medical Center, Nijmegen, the Netherlands

B36 Language outcome after perinatal arterial territory stroke

Torsten Baldeweg¹, Gemma B Northam¹, Wui K Chong², Sophie Adler¹, Frances M Cowan³; ¹University College London, ²Great Ormond Street Hospital London, ³Imperial College London

B37 Behavioral advantage in confrontation naming performance in brain tumor patients with left-frontal tumors

Ethan Jost^{1,2}, Morten Christiansen¹, Nicole Brennan², Andrei Holodny²; ¹Department of Psychology, Cornell University; Ithaca, NY, ²Department of Radiology, Memorial Sloan Kettering Cancer Center; New York, NY

Lexical Semantics

B38 The sounds of meaning: Investigating the functional interaction between action sounds and semantics

Luigi Grisoni¹, Friedemann Pulvermüller¹; ¹Freie Universität

B39 A meta-analysis of neuroimaging studies on Chinese and Japanese semantic processing

Hengshuang Liu¹, SH Annabel Chen¹; ¹Nanyang Technological University

B40 The automaticity of language-perception interactions

Jolien C. Francken¹, Erik L. Meijs¹, Peter Kok¹, Simon van Gaal^{1,2}, Peter Hagoort^{1,3}, Floris P. de Lange¹; ¹Donders Institute for Brain, Cognition and Behavior, Radboud University Nijmegen, Nijmegen, Netherlands, ²Faculty of Psychology, University of Amsterdam, Amsterdam, The Netherlands, ³Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands

B41 Tracking the emergence of word-meaning in the brain: an fMRI study

Raphael Fargier¹, Pia Aravena², Louise Rague², Anne Cheylus², Yves Paulignan², Carolina Ciumas², Tatjana Nazir²; ¹FAPSE, University of Geneva, Geneva, Switzerland, ²L2C2 CNRS-UMR5304, Institute of Cognitive Science, Bron, France

B42 Early differences in semantic processing during visual naming

F.-Xavier Alario^{1,2}, Dashiell Munding^{1,2}, Anne-Sophie Dubarry^{1,2,3}, Sophie Chen^{1,3}, Jean-Michel Badier^{1,3}, Marieke Longcamp^{1,2}; ¹Aix-Marseille Université, ²CNRS (Centre National de la Recherche Scientifique), ³INSERM (Institut National de la Santé et de la Recherche Médicale)

B43 Penguins can't fly: how concept typicality affects category verification and verbal memory recognition

Mara Alves¹, José Frederico Marques¹, Ana Raposo¹; ¹University of Lisbon

B44 Fronto-temporal network promotes verbal memory retrieval via semantic elaboration

João Ferreira¹, Sofia Frade¹, José Frederico Marques¹, Ana Raposo¹; ¹University of Lisbon

B45 Healthy Aging Modulates Idiom Processing: An Eye Movement Study of Idioms Presented in a Canonical vs. Non-Canonical Form

Katja Häuser^{1,2}, Shari Baum^{1,2}, Debra Titone^{2,3}; ¹School of Communication Sciences and Disorders, McGill University, ²Centre for Research on Brain, Language and Music, McGill University, ³Department of Psychology, McGill University

B46 Italian blues reveal links between language, brain, and behavior

Cora Kim¹, Friedemann Pulvermüller¹; ¹Brain Language Laboratory, Freie Universität Berlin

B47 The role of LIFG in metaphor comprehension

Sarah Solomon¹, Sharon L Thompson-Schill¹; ¹University of Pennsylvania

B48 Spatio-temporal dynamics of the lexical selection network in speech production: Insights from electrocorticography

Stephanie K. Ries¹, Rummit K. Dhillon¹, David King-Stephens², Kenneth D. Laxer², Peter B. Weber^{2,3}, Rachel A. Kuperman⁴, Kurtis I. Auguste^{3,4}, Josef Parvizi⁵, Nina F. Dronkers^{6,7}, Robert T. Knight¹; ¹University of California, Berkeley, CA, USA., ²California Pacific Medical Center, San Francisco, CA, USA., ³University of California San Francisco, CA, USA., ⁴Children's Hospital and Research Center, Oakland, CA, USA., ⁵Stanford School of Medicine, CA, USA., ⁶Veterans Affairs Health Care System, Martinez, CA, USA., ⁷University of California, Davis, USA.

Discourse, Combinatorial Semantics

B49 When a causal assumption is not satisfied by reality: Differential brain responses to concessive and causal relations during sentence comprehension

Xiaodong Xu¹, Xiaolin Zhou²; ¹Nanjing Normal University, ²Peking University

B50 Marking the counterfactual: ERP evidence for pragmatic processing of German subjunctives

Eugenia Kulakova¹, Dominik Freunberger¹, Dietmar Roehm¹; ¹University of Salzburg

B51 Different brain dynamics for the late anterior and posterior positivities in semantic processing

Jian Huang^{1,2}, Suiping Wang¹, Hsuan-Chih Chen²; ¹South China Normal University, ²Chinese University of Hong Kong

B52 Relational vs. attributive interpretation of noun-noun compounds differentially engages angular gyrus Christine Boylan¹, John C. Trueswell¹, Sharon L. Thompson-Schill¹; ¹University of Pennsylvania

B53 ERP indices of word frequency and predictability in left and right hemispheres Yoana Vergilova¹, Heiner Drenhaus¹, Matthew Crocker¹; ¹Saarland University

B54 Before and after, and processing presuppositions in discourse Ming Xiang¹, Emily Hanink¹, Genna Vegh¹; ¹University of Chicago

B55 Human Intracranial Electrophysiology Reveals Common Semantic Processing for Comprehension of Written Sentences and Visual Scenes Peter Ford Dominey^{1,2,3}, Sullivan Hidot^{1,2}, Anne-Lise Jouen^{1,2}, Marcela Perrone-Bertolotti⁴, Carol Madden-Lombardi^{1,2,3}, Jocelyne Ventre-Dominey^{1,2}, Jean-Phillipe Lachaux⁵; ¹INSERM Stem Cell and Brain Research Institute, Bron, France, ²University of Lyon, France, ³CNRS France, ⁴Univ. Grenoble Alpes, LPNC, UMR 5105, Grenoble, France, ⁵Center for Neuroscience, UCBL, Lyon

B56 ERP responses for polarity sensitivity and definiteness restriction violations: Access/retrieval and integration/composition in logical semantic processing John E. Drury¹, James Monette¹, Aydogan Yanilmaz¹, Karsten Steinhauer³; ¹Stony Brook University, ²McGill University

B57 Modulating conceptual combination using focal non-invasive brain stimulation Amy Price¹, Michael Bonner¹, Jonathan Peelle², Murray Grossman¹; ¹University of Pennsylvania, ²Washington University in St. Louis

B58 Density of prototypical features is associated with better category learning in Alzheimer's disease and healthy older adults. Jeffrey Phillips¹, Nam Eun Min¹, Phyllis Koenig, Corey McMillan¹, Murray Grossman¹; ¹University of Pennsylvania

B59 Fearing and loving: verb category matters in processing implicit causality Einat Shetreet^{1,2}, Joshua K. Hartshorne³, Gina R. Kuperberg^{1,2}; ¹Tufts University, ²Massachusetts General Hospital, ³Massachusetts Institute of Technology

B60 Lateralization of Joke Meanings in Normal Adults: A Hemifield Investigation Jyotsna Vaid¹, Rachel Hull¹, Hsin Chin Chen², Sumeyra Tosun¹, Robert Savoy³; ¹Texas A&M University, ²National Chung Cheng University, Taiwan, ³Athinoula A. Martinos Center for Biomedical Imaging

B61 Prediction influences brain areas early in the neural language network Roel Willems^{1,2}, Stefan Frank³, Annabel Nijhof¹, Peter Hagoort^{1,2}, Antal van den Bosch^{1,3}; ¹Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, The Netherlands, ²Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ³Centre for Language studies, Radboud University Nijmegen, The Netherlands

B62 Neurolinguistic processing of figurative expressions: the role of emotion Francesca Citron¹; ¹Cluster of Excellence "Languages of Emotion", Freie Universität Berlin.

Syntax, Morphology

B63 Characterizing the neural computations of sentence comprehension: an activation likelihood estimate (ALE) meta-analysis Alvaro Diaz¹, Gregory Hickok², Corianne Rogalsky¹; ¹Arizona State University, ²University of California, Irvine

B64 Semantic and syntactic interference resolution during Chinese sentence comprehension: Evidence from event-related potentials (ERPs) Yingying Tan¹, Randi Martin¹; ¹Rice University

B65 Dissociation of comprehension and transformation processes for solving algebraic equations: An fMRI study Tomoya Nakai^{1,2}, Hiroyuki Miyashita^{1,3}, Kuniyoshi L. Sakai^{1,3}; ¹the University of Tokyo, ²JSPS Research Fellow, ³CREST, JST

B66 Constituent structure representations revealed with intracranial data Matthew Nelson^{1,2}, Imen El Karoui³, Christophe Pallier^{1,2,4}, Laurent Cohen^{3,5,6}, Lionel Naccache^{3,5,7}, Stanislas Dehaene^{1,2,4,8}; ¹Cognitive Neuroimaging Unit, Institut National de la Santé et de la Recherche Médicale, U992, F-91191 Gif-sur-Yvette, France, ²Neurospin Center, Institute of BioImaging Commissariat à l'Energie Atomique, F-91191, Gif-sur-Yvette, France, ³Institut du Cerveau et de la Moelle Épineuse, Institut National de la Santé et de la Recherche Médicale U1127, Centre National de la Recherche Scientifique UMR7225, Université Pierre et Marie Curie, Paris, France, ⁴Université Paris 11, Orsay, France, ⁵AP-HP Groupe hospitalier Pitié-Salpêtrière, Paris, France, ⁶Université Paris 6, Paris, France, ⁷Cambridge, UK, ⁸Collège de France, F-75005 Paris, France

B67 Putting the load on different cognitive domains: Music, Language and Control Dirk-Bart Den Ouden¹, Emily O. Garnett¹, Svetlana Malyutina¹, Victoria Sharpe¹, Sophie Wohltjen^{1,2}; ¹University of South Carolina, ²University of Virginia

B68 Similarity-based interference during comprehension of noun phrases: Evidence from ERPs Andrea E. Martin¹, Mante S. Nieuwland¹; ¹University of Edinburgh

B69 Retrieval interference during comprehension of grammatical subject-verb agreement: Evidence from ERPs Mante S. Nieuwland¹, Ian Cunnings², Andrea E. Martin¹, Patrick Sturt¹; ¹University of Edinburgh, ²University of Reading

B70 Implicit Structured Sequence Learning: An EEG Study of the Structural Mere-Exposure Effect Karl Magnus Petersson^{1,2}, Susana Silva², Vasiliki Folia¹, Ana-Carolina Sousa², Peter Hagoort¹; ¹Neurobiology of Language Department, Max-Planck Institute for Psycholinguistics, Nijmegen, ²Cognitive Neuroscience Research Group, Universidade do Algarve, Faro, Portugal

B71 The electrophysiology of long-term vs short-term predictions: The strength of prediction is cumulative Elisabeth Rabs¹, Phillip Alday¹, Katerina Kandylaki¹, Matthias Schlesewsky², Dietmar Roehm⁴, Ina Bornkessel-Schlesewsky^{1,3}; ¹University of Marburg, ²Johannes Gutenberg-University Mainz, ³University of South Australia, ⁴University of Salzburg

B72 Inter-subject correlations of cortical activity during natural language processing in language-selective regions but not multiple-demand regions Idan Blank¹, Evelina Fedorenko²; ¹MIT, ²MGH

B73 Predictability of a gap inside a syntactic island is reflected by an N400 effect in high span readers Dan Michel¹, Robert Kluender¹, Seana Coulson¹; ¹University of California, San Diego

Language Disorders

B74 A theory-based study of coherence in discourse production of healthy and anomic aphasic speakers of Chinese Anastasia Linnik¹, Waisa Shum², Anthony Pak Hin Kong³, Sam-Po Law²; ¹International Doctorate for Experimental Approaches to Language and Brain (IDEALAB, University of Potsdam, Potsdam, Germany; University of Groningen, Groningen, The Netherlands, ²Division of Speech and Hearing Sciences, University of Hong Kong, ³Department of Communication Sciences and Disorders, University of Central Florida, FL, USA

B75 Beyond words: Pragmatic inference in the behavioral variant of frontotemporal dementia Nicola Spotorno¹, Corey McMillan¹, Katya Raskovsky¹, Robin Clark², Murray Grossman¹; ¹Penn Frontotemporal Degeneration Center, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA, ²Department of Linguistics, University of Pennsylvania, Philadelphia, PA, USA

B76 Communicative strategies and neuropsychological profiles in expressive aphasia: guidelines for rehabilitation Lenisa Brandão¹, Juliana Feiden¹, Magda Aline Bauer¹, Camila Lenhardt Grigol¹, Francielle da Silva Freitas¹, Ingrid Finger¹; ¹Universidade Federal do Rio Grande do Sul

B77 Examining neurological components of the metaphor interference effect in individuals with and without autism spectrum disorder Brea Chouinard¹, Joanne Volden¹, Ivor Cribben¹, Jacqueline Cummine¹; ¹University of Alberta

B78 Alzheimer's patients comprehend apt but unfamiliar metaphors Carlos Roncero¹, Roberto G. de Almeida²; ¹Lady Davis Institute for Medical Research, S.M.B.D. Jewish General Hospital, McGill University Health Network, ²Concordia University, Montréal, Québec, Canada

B79 Social deficits in ASD are linked with greater task-driven neural synchrony under naturalistic conditions Kyle M. Jasmin^{1,2}, Stephen J. Gotts¹, Yisheng Xu³, Nuria AbdulSabur³, Siyuan Liu³, John Ingeholm¹, Ian W. Eisenberg¹, Bako Orionzi¹, Allen R. Braun³, Alex Martin¹; ¹National Institute of Mental Health, NIH, ²University College London, ³National Institute on Deafness & Other Communication Disorders, NIH

B80 Brain responses to foreign-language words are diminished in dyslexic children Sari Ylinen¹, Katja Junntila¹, Marja Laasonen^{1,2}, Paul Iverson³, Heikki Lyytinen⁴, Teija Kujala¹; ¹University of Helsinki, ²Helsinki University Central Hospital, ³University College London, ⁴University of Jyväskylä

B81 Deficient rapid perceptual learning of novel spoken words in dyslexic children Lilli Kimppa¹, Petra Sweins¹, Teija Kujala¹; ¹University of Helsinki

B82 tDCS to the temporo-parietal cortex produces lasting improvements in nonword reading in adults with developmental dyslexia Isobel McMillan¹, Wael El-Deredy¹, Anna Woollams¹; ¹The University of Manchester

B83 Comparing Language Outcomes After Stroke in Bilingual and Monolingual Adults Thomas M.H. Hope¹, Ôiwi Parker Jones¹, Alice Grogan¹, Jenny T. Crinion¹, Johanna Rae¹, Mohamed L. Seghier¹, David W. Green¹, Cathy J. Price¹; ¹University College London

B84 Multimodal MRI converging evidence underlying the role of the left thalamus in dyslexia Garikoitz Lerma-Usabiaga¹, Ileana Quiñones¹, Cesar Caballero¹, Myriam Oliver¹, Jon A. Duñabeitia¹, Manuel Carreiras^{1,2,3}, Pedro M. Paz-Alonso¹; ¹Basque Center on Cognition, Brain and Language (BCBL), Donostia-San Sebastián, Spain, ²IKERBASQUE, Basque Foundation for Science, Bilbao, Spain, ³UPV/EHU, Bilbao, Spain

B85 Abnormal white matter microstructure in children with specific language impairment Lisa Bruckert^{1,2}, Dorothy V. M. Bishop¹, Kate E. Watkins^{1,2}; ¹University of Oxford, ²Oxford Centre for Functional MRI of the Brain

Poster Session C

Methods

C1 Calibrated multimodal fNIRS study of the neurophysiology of semantic word processing in healthy aging Mahnoush Amiri^{1,3}, Philippe Pouliot^{1,4}, Frederic Lesage^{1,4}, Yves Joannette^{2,3,5}; ¹École Polytechnique de Montréal, ²Faculté de médecine Université de Montréal, ³Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, ⁴Montreal Heart Institute, ⁵CIHR Institute of Aging

C2 Virtual agents as a valid replacement for human partners in sentence processing research Evelien Heyselaar¹, Peter Hagoort¹, Katrien Segaert¹; ¹Max Planck Institute for Psycholinguistics

C3 Different recovery strategies in sentence processing can be disentangled using coregistered eye movements and brain potentials Paul Metzner¹, Titus von der Malsburg², Shravan Vasishth¹, Frank Rösler³; ¹University of Potsdam, ²St John's College, University of Oxford, ³University of Hamburg

C4 Reliable individual-level neural markers of language activity Kyle Mahowald¹, Evelina Fedorenko²; ¹Massachusetts Institute of Technology, ²Massachusetts General Hospital

C5 Between-subject variance in resting-state fMRI connectivity predicts fMRI activation in a language task Lorian Zaanen¹, Julia Uddén^{1,2}, Annika Hultén^{1,2}, Peter Hagoort^{1,2}, Hubert Fonteijn¹; ¹Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Donders Centre for Cognitive Neuroimaging, Nijmegen, The Netherlands, ²Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

Auditory Perception, Speech Perception, Audiovisual Integration

C6 Early robust auditory lexical processing revealed by ERPs Martijn Baart¹, Arthur Samuel^{1,2,3}; ¹Basque Center on Cognition, Brain and Language, Donostia, Spain, ²IKERBASQUE, Basque Foundation for Science, ³Dept. of Psychology, Stony Brook University, Stony Brook, NY, USA

C7 How and when predictability interacts with accentuation in temporally selective attention during speech comprehension Xiaoqing Li¹, Haiyan Zhao¹; ¹Key Laboratory of Behavioral Science, Institute of Psychology, Chinese Academy of Sciences (Beijing, China)

C8 Neural Timecourse of Language-Attention Interactions in Spoken Word Processing Jana Krutwig^{1,4}, Yury Shtyrov^{1,2,3}; ¹Aarhus University, ²Lund University, ³Higher School of Economics, ⁴Radboud University Nijmegen

C9 Limits to cross-modal semantic and object shape priming in sentence context Joost Rommers¹, Falk Huettig^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands

C10 Phonemic and Post-phonemic Processing of Intelligible Speech in the Anterior and Posterior Superior Temporal Sulcus Dale Maddox¹, Daniel Kislyuk¹, Jon Venezia¹, Hickok Greg¹; ¹The University of California-Irvine, Department of Cognitive Sciences, Irvine, CA, USA.

C11 Oscillatory dynamics to time-stretched speech during lexical decision Jonathan Brennan¹, Max Cantor¹, Constantine Lignos², David Embick³, Timothy P. L. Roberts^{2,3}; ¹University of Michigan, ²Children's Hospital of Philadelphia, ³University of Pennsylvania

C12 Timing of the speech-evoked auditory brainstem response is dependent on cochlear spectral processing Helen E Nuttall¹, David R Moore², Johanna G Barry³, Jessica de Boer³; ¹University College London, ²Cincinnati Children's Hospital Medical Center, ³MRC Institute of Hearing Research

C13 ERPs and time-frequency analyses reveal dissociable submechanisms in the establishment of relational dependencies between complex auditory objects Ingmar Brilmayer¹, Jona Sassenhagen², Ina Bornkessel-Schlesewsky², Matthias Schlesewsky¹; ¹Johannes Gutenberg-University Mainz, ²University of Marburg

C14 The functional role of neural oscillations in auditory temporal processing during the first stages of reading development Astrid De Vos^{1,2}, Sophie Vanvooren^{1,2}, Jolijn Vanderauwera^{1,2}, Pol Ghesquière², Jan Wouters¹; ¹KU Leuven, Experimental oto-rhino-laryngology, Leuven (Belgium), ²KU Leuven, Parenting and special education research group, Leuven (Belgium)

Motor Control, Speech Production, Sensorimotor Integration

C15 Apraxia of Speech and Aphasia Result from Distinctly Different Lesion Locations Alexandra Basilakos¹, Dana Moser², Grigori Yourganov¹, Paul Fillmore¹, Chris Rorden¹, Julius Fridriksson¹; ¹University of South Carolina, Columbia, SC, ²University of New Hampshire, Durham, NH

C16 A spreading activation model of lexical retrieval with sensorimotor integration Grant Walker¹, Gregory Hickok¹; ¹University of California, Irvine

C17 Anatomy of motor speech network in frontal temporal dementia Maria Luisa Mandelli¹, Miguel Santos¹, Paolo Vitali², Richard Binney¹, Bruce Miller¹, William Seeley¹, Maria Luisa Gorno-Tempini¹; ¹Memory Aging Center, University of California, San Francisco, ²Neurology Service, Notre-Dame Hospital, University of Montreal

C18 Task-related modulations in large-scale cortical networks underlying language production: a combined fMRI and MEG study Mia Liljeström^{1,2}, Claire Stevenson¹, Jan Kujala¹, Riitta Salmelin¹; ¹Aalto University, ²University of Helsinki, Finland

C19 Neural correlates of response latencies in the picture naming task Niels Janssen¹, Juan A. Hernández-Cabrera^{1,2}, Horacio A. Barber^{1,2}; ¹Universidad de La Laguna, Tenerife, Spain, ²Basque Center on Cognition, Brain and Language

C20 Brain mechanisms of semantic interference in spoken word production: An anodal Transcranial Direct Current Stimulation (atDCS) study Özlem Yetim^{1,2}, Marcus Meinzer², Katie McMahon³, Greig de Zubicaray⁴; ¹Queensland Brain Institute, University of Queensland, Brisbane, Australia, ²Centre for Clinical Research, University of Queensland, Brisbane, Australia, ³Centre for Advanced Imaging, University of Queensland, Brisbane, Australia, ⁴School of Psychology, University of Queensland, Brisbane, Australia

Orthographic Processing, Writing, Spelling

C21 Revealing the cortical dynamics of letter string perception. Laura Gwilliams¹, Gwyneth Lewis², Alec Marantz^{1,2}; ¹NYUAD Institute, New York University, Abu Dhabi, ²New York University

C22 An ERP Investigation of Orthographic Priming with Superset Primes Maria Ktori¹, Katherine Midgley^{2,3}, Phillip J. Holcomb^{2,3}, Jonathan Grainger¹; ¹CNRS and Aix-Marseille University, Marseille, France, ²San Diego State University, San Diego, California, U.S.A., ³Tufts University, Medford, Massachusetts, U.S.A.

C23 Anatomical connectivity of ventral occipitotemporal region involved in reading Tae Twomey¹, Lise Magnollay¹, Joseph Devlin¹; ¹University College London

C24 The lexicality effect in the left ventral occipito-temporal cortex Sarah Schuster¹, Fabio Richlan¹, Stefan Havelka¹, Philipp Ludersdorfer¹, Florian Hutzler¹; ¹Department of Psychology and Centre for Neurocognitive Research, University of Salzburg

C25 An ERP investigation of hemispheric asymmetry: Is visual field asymmetry of the optimal viewing position (OVP) effect for foveal stimuli similar to right visual field advantage for non-foveal stimuli? Wen-Hsuan Chan¹, Thomas P. Urbach¹, Marta Kutas^{1,2}; ¹Cognitive Science, UC San Diego, ²Neurosciences, UC San Diego

C26 Task sensitivity in language-related ERP components is not restricted to the P600 Noura Schmuck¹, Ina Bornkessel-Schlesewsky^{2,5}, Sarah Tune³, Netaya Lotze⁴,

Matthias Schlesewsky¹; ¹Johannes Gutenberg-University, Mainz, ²University of Marburg, ³University of California, Irvine, ⁴University of Hannover, ⁵University of South Australia

C27 Overlapping brain potentials in a simplified reading situation: a fixation-related potentials study. Lorenzo Vignali¹, Fabio Richlan¹, Stefan Havelka¹, Florian Hutzler¹; ¹Department of Psychology and Centre for Neurocognitive Research, University of Salzburg

Phonology, Phonological Working Memory

C28 The interaction between phonology and semantics in late bilinguals: Evidence from ERPs Cheryl Frenck-Mestre¹, Ronan Cardinal², Haydee Carrasco³, Jérémy Sampo²; ¹Centre National de Recherche Scientifique, ²Aix-Marseille Université, ³Universidad Autónoma de Querétaro

C29 Processing of phonotactic regularities in the lesioned language network. A combined lesion-symptom and ERP approach. Hellmuth Obrig^{1,2}, Mentzel Julia¹, Dreyer Maria^{1,2}, Rossi Sonja^{2,3}; ¹Clinic for Cognitive Neurology, University Hospital and Faculty of Medicine Leipzig, Germany, ²Max-Planck-Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, ³Medical Psychology, Medical University Innsbruck, Austria

C30 Direct electrophysiological registration of phonological and semantic perception in the human subthalamic nucleus Miet De Letter¹, Annelies Aerts², Sarah Vanhoutte³, John Van Borsel⁴, Robrecht Raedt⁵, Leen De Taeye⁶, Pieter Van Mierlo⁷, Paul Boon⁸, Dirk Van Roost⁹, Patrick Santens¹⁰; ¹Ghent University, Ghent University Hospital, ²Ghent University, ³Ghent University, ⁴Ghent University, Universidade Veiga de Almeida, Rio de Janeiro, ⁵Ghent University, ⁶Ghent University, ⁷Ghent University, ⁸Ghent University, Ghent University Hospital, ⁹Ghent University, Ghent University Hospital, ¹⁰Ghent University, Ghent University Hospital

C31 Functional subdivisions in the supramarginal gyrus for phonology and semantics Marion Oberhuber¹, Tom M.H. Hope¹, Mohamed L. Seghier¹, Öiwi Parker Jones^{1,2}, Suz Prejawa¹, David W. Green³, Cathy J. Price¹; ¹Wellcome Trust Centre for Neuroimaging, University College London, UK, ²Wolfson College, University of Oxford, UK, ³Experimental Psychology Research Department, Division of Psychology and Language Sciences, University College London, UK

C32 Site-specific modulation of lexicality effects in auditory verbal short-term memory using TMS Nicola Savill¹, Andrew W. Ellis¹, Beth Jefferies¹; ¹University of York, UK

Signed Language

C33 Functional network rewiring from manual gesture to language Lanfang Liu¹, Xin Yan¹, Le Li¹, Lijuan Zou², Guosheng Ding¹; ¹Beijing Normal University, China, ²Shandong Zaozhuang Normal University, China

C34 Brain-based individual difference measures of reading skill in deaf adults Alison Mehravari¹, Lindsay Klarman¹, Karen Emmorey², Lee Osterhout¹; ¹University of Washington, ²San Diego State University

C35 Heschl's gyrus responses to visual language in deaf individuals are driven by auditory deprivation, and not by language modality Velia Cardin^{1,2}, Rebecca Lynnes¹,

Eleni Orfanidou³, Cheryl Capek⁴, Jerker Ronnberg², Bencie Woll¹, Mary Rudner²; ¹University College London, ²Linköping University, ³University of Crete, ⁴Manchester University

Language Development, Plasticity, Multilingualism

C36 Proficiency and age of acquisition predict brain activation and white matter connectivity in Mandarin-English bilinguals Emily S. Nichols¹, Marc F. Joanisse¹; ¹The University of Western Ontario

C37 Neural Oscillations provide insight into developmental differences between children and adults during auditory sentence processing. Julie M. Schneider¹, Mandy J. Maguire¹; ¹The University of Texas at Dallas

C38 Visual ERP repetition effects to novel objects predict word fast-mapping ability in 20-month-olds Kristina Borgstrom¹, Janne von Koss Torkildsen², Magnus Lindgren¹; ¹Lund University, Sweden, ²University of Oslo, Norway

C39 L-dopa modulates frontostriatal signalling during encoding of new unfamiliar picture-pseudoword pairings Alicia Rawlings¹, Katie McMahon², Anna MacDonald¹, Emma Finch³, Peter Silburn¹, Matti Laine⁴, Pradeep Nathan⁵, David Copland^{1,3}; ¹Centre for Clinical Research, University of Queensland, Herston, Australia, ²Centre for Advanced Imaging, University of Queensland, St Lucia, Australia, ³School of Health and Rehabilitation Sciences, University of Queensland, St Lucia, Australia, ⁴Department of Psychology and Logopedics, Åbo Akademi University, Turku, Finland, ⁵Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom

C40 Tracking the neural dynamics of the formation of a novel language schema Ruud Berkers¹, Marieke van der Linden¹, David A. Neville¹, Marlieke van Kesteren^{1,2}, Jaap Murre³, Guillen Fernandez¹; ¹Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behaviour, ²Stanford University, ³University of Amsterdam

C41 Consolidation of newly learned words with or without meanings: fMRI study on young adults Atsuko Takashima¹, Iske Bakker¹, Janet van Hell^{2,1}, Gabriele Janzen¹, James McQueen^{1,3}; ¹Radboud University Nijmegen, ²Pennsylvania State University, ³Max Planck Institute for Psycholinguistics, Nijmegen

C42 Neurophysiological correlates of first-language (L1) attrition and second-language (L2) acquisition: A continuum based on proficiency Kristina Kasparian^{1,2}, Karsten Steinhauer^{1,2}; ¹McGill University, ²Centre for Research on Brain, Language and Music

C43 Motor cortex involvement in neurosemantics of L1 and L2: evidence from rapid mu-rhythm desynchronisation Nikola Vukovic⁴, Yury Shtyrov^{1,2,3}; ¹Aarhus University, ²Lund University, ³Higher School of Economics, ⁴Cambridge University

C44 Context affects L1 but not L2 during bilingual word recognition: an MEG study Minna Lehtonen^{1,2}, Janne Pellikka², Jyrki Mäkelä³, Päivi Helenius⁴; ¹Abo Akademi University, ²University of Helsinki, ³Helsinki University Central Hospital, ⁴Aalto University

C45 Hemispheric Involvement in Native and Non-Native Comprehension of Conventional Metaphors

Katy Borodkin¹, Nira Mashal², Miriam Faust²; ¹Lehman College, CUNY, ²Bar-Ilan University

C46 Game based second-language vocabulary training strategies; implications for learning outcomes and brain function

Kiera O'Neil¹, Max Hauser¹, Vivian Eng¹, Cheryl French-Mestre², Aaron J. Newman¹; ¹Dalhousie, ²Centre National de Recherche Scientifique

C47 Effect of Levodopa on Learning New Words with Semantic Attributes

David Copland^{1,2}, Alana Campbell¹, Alicia Rawlings^{1,2}, Katie McMahon³, Emma Finch⁴, Peter Silburn², Pradeep Nathan⁵; ¹School of Health & Rehabilitation Sciences, The University of Queensland, ²UQ Centre for Clinical Research, The University of Queensland, ³Centre for Advanced Imaging, The University of Queensland, ⁴Princess Alexandra Hospital, Brisbane, ⁵Department of Psychiatry, University of Cambridge

Lexical Semantics

C48 The Processing of Figurative Two-part Allegorical Sayings: An ERP Study

Hui Zhang¹, Jiexin Gu², Yiming Yang³; ¹School of Foreign language and Cultures, Nanjing Normal University, ²School of Linguistic Science, Jiangsu Normal University, ³School of Linguistic Science, Jiangsu Normal University

C49 Dissociating Lexical-semantic Activation and Combinatorial Processing in the Human Language System

Gangyi Feng¹, Suiping Wang¹, Qi Chen¹, Jian Huang¹, Wei Zhang¹; ¹South China Normal University

C50 "What is Concrete and Abstract and Read All Over!": An fMRI Study of Polysemy

Yuan Tao¹, Andrew Anderson¹, Massimo Poesio^{1,2}; ¹Centro interdipartimentale Mente/Cervello (CiMEC), University of Trento, Italy, ²School for Computer Science and Electronic Engineering, University of Essex, UK

C51 Identifying objects at different levels of specificity: Cortical dynamics in hub and spokes

Beth Jefferies¹, Giovanna Mollo¹, Andrew Ellis¹, Piers Cornelissen²; ¹University of York, UK, ²Northumbria University, UK

C52 Context-dependent interpretation of words: MEG evidence for interactive neural processes

Giovanna Mollo¹, Elizabeth Jefferies¹, Piers Cornelissen², Andrew Ellis¹, Silvia Gennari¹; ¹University of York, ²Northumbria University

C53 On the processing of negated meanings: A chronometric-TMS study

Liuba Papeo¹, Jean-Remy Hochmann²; ¹Center for Mind/Brain Science (CIMEC), University of Trento, ²Ecole Normale Supérieure, Paris

C54 No Squirrel Likes Collecting Nuts. An ERP Study on Quantification, Prediction, and Cloze Probability.

Dominik Freunberger¹, Dietmar Roehm¹; ¹University of Salzburg

C55 Oscillatory brain dynamics associated with the automatic emotional processing of words

Lin Wang¹, Marcel Bastiaansen²; ¹Key Laboratory of Behavioral Science, Institute of Psychology, Chinese Academy of Sciences, ²NHTV Breda University of Applied Sciences, Breda, the Netherlands

C56 Marbles and metaphor: Language processing in the brain is sensitive to motion congruency

Megan D. Bardolph¹, Seana Coulson¹; ¹University of California, San Diego

Discourse, Combinatorial Semantics

C57 Simulating fiction: Individual differences in literature comprehension revealed with fMRI

Annabel Nijhof¹, Roel M. Willems^{1,2}; ¹Donders Institute for Brain, Cognition and Behavior, Radboud University Nijmegen, The Netherlands, ²Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

C58 Narrative perspective influences immersion in fiction reading: Evidence from Skin Conductance Response

Franziska Hartung¹, Michael Burke², Peter Hagoort^{1,3}, Roel M. Willems^{1,3}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²University College Roosevelt, Utrecht University, The Netherlands, ³Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, The Netherlands

C59 Imaging dyadic conversation: Measures of interactive alignment and social interaction independently modulate patterns of interbrain coherence

Nuria Abdulsabur¹, Yisheng Xu¹, Briel Kobak², Emma Kelsey², Jacqueline Hazen¹, Taylor Katt⁴, Carla Cabrera¹, Siyuan Liu¹, Ho Ming Chow¹, Mario Belladone¹, Joel Kuipers², Allen Braun¹; ¹Language Section, NIDCD, NIH, Bethesda MD, ²Department of Anthropology, George Washington University, ³Department of Anthropology, New York University, ⁴Nebraska Wesleyan University

C60 Neural Adaptability During Sentence Reading: Higher Language Ability but not Semantic Sentence Complexity Increases Neural Activity

Helene van Ettinger-Veenstra^{1,2}, Anita McAllister^{2,3}, Peter Lundberg^{1,2,4}, Thomas Karlsson^{1,2}, Maria Engström^{1,2}; ¹Center for Medical Image Science and Visualization (CMIV), Linköping, Sweden, ²Linköping University, Linköping, Sweden, ³Karolinska Institutet, Stockholm, Sweden, ⁴County Council of Östergötland, Linköping, Sweden

C61 Patterns of activation and connectivity in fronto-temporal language networks during sentence processing in patients with schizophrenia: A multimodal imaging investigation

Kirsten Weber^{1,2,3}, Ellen Lau⁴, Ben Stillerman^{1,3}, Arim Choi Perrachione³, Nate Delaney-Busch³, Gina Kuperberg^{1,2,3}; ¹Massachusetts General Hospital, ²Harvard Medical School, ³Tufts University, ⁴University of Maryland

C62 Narrative production related to cognitive constructs in Alzheimer's Disease, Mild Cognitive Impairment and major depression: comparative case studies

Lilian Cristine Hubner¹, Gislaïne Machado Jerônimo¹, Bruna Tessaro¹, Irênio Gomes^{1,2}, Caroline Menta^{1,2}, Fernanda Loureiro^{1,2}; ¹Pontifical Catholic University of Rio Grande do Sul (PUCRS) - Brazil, ²Institute of Geriatrics and Gerontology (IGG), São Lucas Hospital at PUCRS - Brazil

Syntax, Morphology

C63 Brain correlates of chunk size in Chinese

HUI-CHUAN CHANG¹, Christophe Pallier^{2,3,5,6}, Stanislas Dehaene^{2,3,4,5}, D. H. Wu⁷, W.-J. Kuo¹; ¹Institute of neuroscience, National Yang-Ming University, Taipei, Taiwan, ²Cognitive Neuroimaging Unit, INSERM, Gif-sur-Yvette, France, ³CEA, DSV, I2BM, NeuroSpin Center, Paris, France, ⁴Collège de France, Paris, France, ⁵University Paris-Sud, Paris, France, ⁶Centre National de la Recherche Scientifique, Paris, France, ⁷Institute of cognitive neuroscience, National Central University, Jhongli, Taiwan

C64 Impairment in Sentence Comprehension in Patients with the Behavioral Variant of Frontotemporal Degeneration (bvFTD) Rebecca Williams¹, Sherry Ash¹, Katya Rascovsky¹, Murray Grossman¹; ¹University of Pennsylvania

C65 Structural size matters: ERP signatures of strategies to recover meaning of elliptical sentences Bobby Ruijgrok^{1,2}, Crit Cremers^{1,2}, Lisa L. Cheng^{1,2}, Niels O. Schiller^{1,2}; ¹Leiden University Centre for Linguistics, ²Leiden Institute for Brain and Cognition

C66 A meta-analysis on syntactic vs. semantic unification Peter Hagoort^{1,2}, Peter Indefrey^{3,2}; ¹Donders Institute for Brain, Cognition and Behaviour; Radboud University Nijmegen, ²Max Planck Institute for Psycholinguistics, ³Heinrich Heine University, Düsseldorf

C67 Subject vs. object asymmetry of 'floating' numeral classifiers in Korean: An ERP study Myung-Kwan Park¹, Euiyon Cho¹, Wonil Chung¹; ¹Dongguk University

C68 ERP effects of the processing of preferentially long-distance bound anaphor caki in Korean Euiyon Cho¹, Myung-Kwan Park¹, Wonil Chung¹; ¹Dongguk University

C69 The middle temporal and inferior parietal cortex contributions to inferior frontal unification across complex sentences Julia Udden^{1,2}, Annika Hulten^{1,2}, Hubert Foneteijn^{1,2}, Karl Magnus Petersson^{1,2}, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Donders Centre for Cognitive Neuroimaging, Nijmegen, The Netherlands

C70 Direct evidence for structural prediction from the processing of auxiliary dependencies: An ERP investigation in French Matt Husband¹, Christelle Gansone¹; ¹University of Oxford

C71 Overlap and segregation in activation for syntax and semantics: a meta-analysis of 13 fMRI studies Hubert Foneteijn^{1,2}, Dan Acheson^{1,2}, Karl-Magnus Petersson^{1,3}, Katrien Segaeert^{1,2}, Tineke Snijders^{2,4}, Julia Udden^{1,2}, Roel Willems^{1,2}, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Donders Centre for Cognitive Neuroimaging, Nijmegen, The Netherlands, ³University of Algarve, Centro de Biomedicina, Molecular e Estrutural, Faro, Portugal, ⁴Radboud University Nijmegen, Centre for Language Studies, Nijmegen, The Netherlands

C72 Event Roles and Temporal Structure: Electrophysiological correlates of grammatical verb aspect processing Carol Madden Lombardi^{1,3,4}, Michel Hoen^{2,3,4}, Léo Varnet^{2,3}, Anne Lise Jouen^{1,3}, Peter Ford Dominey^{1,3,4}; ¹INSERM, U846, Stem Cell and Brain Research Institute, Integrative Neuroscience Department, Bron, France., ²Lyon Neuroscience Research Center, CNRS UMR 5292, Auditory Language Processing (ALP) research group, Lyon, France., ³Université de Lyon, Université Lyon 1, Lyon, France., ⁴CNRS, France

Control, Selection, Working Memory

C73 P3 amplitude indexes the degree of similarity-based interference in memory retrieval during sentence comprehension Pia Schoknecht¹, Svenja Lüll², Lisa Schiffer²,

Noura Schmuck², Phillip Alday¹, Matthias Schlesewsky², Ina Bornkessel-Schlesewsky^{1,3}, Andrea Martin⁴; ¹University of Marburg, ²Johannes Gutenberg-University Mainz, ³University of South Australia, ⁴University of Edinburgh

C74 Evidence for domain general error detection in speech Hanna Gauvin¹, Wouter De Baene¹, Marcel Brass¹, Robert Hartsuiker¹; ¹Ghent University

C75 Locus of Stroop-like effects in color and picture naming: Evidence from electrophysiology Natalia Shitova¹, Ardi Roelofs¹, Herbert Schriefers¹, Marcel Bastiaansen², Jan-Mathijs Schoffelen^{1,3}; ¹Radboud University Nijmegen, ²NHTV Breda University of Applied Sciences, ³Max Planck Institute for Psycholinguistics Nijmegen

C76 Does language production use response conflict monitoring? Jolien ten Velden¹, Dan Acheson^{1,2}, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, ²Donders Institute for Brain, Cognition and Behavior, Nijmegen, the Netherlands

C77 Verbal working memory recruits distinct manipulation and maintenance neural processes Gregory Cogan¹, Asha Iyer², Thomas Thesen³, Daniel Friedman³, Werner Doyle³, Orrin Devinsky³, Bijan Pesaran¹; ¹New York University, ²Mount Sinai Hospital, ³New York University School of Medicine

C78 On the existence of buffers for semantic and phonological short-term memory (STM): insights from functional neuroimaging and lesion analyses Randi C. Martin¹, A. Cris Hamilton¹; ¹Rice University

Language Disorders

C79 Can non-invasive brain stimulation increase fluency in people who stutter? Jennifer Chesters¹, Kate E. Watkins¹, Riikka Möttönen¹; ¹Department of Experimental Psychology, University of Oxford, UK

C80 Altered activity in language-related left fronto-temporo-parietal network in aphasic stroke. Fatemeh Geranmayeh¹, Robert Leech², Richard J.S. Wise³; ¹Computational, Cognitive and Clinical Neuroimaging Laboratory . Imperial College London. UK., ²Computational, Cognitive and Clinical Neuroimaging Laboratory . Imperial College London. UK., ³Computational, Cognitive and Clinical Neuroimaging Laboratory . Imperial College London. UK.

C81 Predicting extent of aphasia recovery using lesion location Helga Thors¹, Paul Fillmore¹, Sigridur Magnúsdóttir², Chris Rorden¹, Julius Fridriksson¹; ¹University of South Carolina, Columbia, SC, USA, ²Landspítali-University Hospital, Reykjavik, Iceland

C82 Right hemisphere lesion sites that result in speech production and comprehension difficulties Andrea Gajardo-Vidal^{1,3}, Mohamed L. Seghier¹, Thomas M. H. Hope¹, Susan Prejawa¹, Alex P. Leff², Cathy J. Price¹; ¹Wellcome Trust Centre for Neuroimaging, University College London, UK, ²Institute of Cognitive Neuroscience, University College London, UK, ³Universidad del Desarrollo, Concepción, Chile

C83 Evaluating a dorsal-pathway account of aphasic language production Ardi Roelofs¹; ¹Donders Institute for Brain, Cognition, and Behaviour, Radboud University Nijmegen, The Netherlands

C84 Abnormal putamen activity is an indicator of dysfluent speech in stuttering Emily L Connally¹, David Ward², Christos Pliatsikas², Kate E Watkins¹; ¹University of Oxford, UK, ²University of Reading, UK

C85 A new strategy to optimize aphasic naming capabilities based on the assumptions of the Mirror Neuron System: a pilot study Juliane Klann¹, Jennifer Kelke¹, Ferdinand Binkofski¹; ¹Section Clinical Cognition Sciences, University Hospital, RWTH Aachen University

C86 Narrative Language Production Impairment in Amyotrophic Lateral Sclerosis Sharon Ash¹, Christopher Olm¹, Corey McMillan¹, Ashley Boller¹, David Irwin¹, Leo McClusky¹, Lauren Elman¹, Murray Grossman¹; ¹Perelman School of Medicine, University of Pennsylvania

Poster Session D

Gesture, Prosody, Social and Emotional Processes

D1 When reality and beliefs differ: oxytocin biases communicative choices towards reality Miriam de Boer¹, Idil Kokal^{1,2}, Mark Blokpoel¹, Arjen Stolk¹, Karin Roelofs^{1,3}, Iris van Rooij¹, Ivan Toni¹; ¹Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands, ²Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ³Radboud University Nijmegen, Behavioural Science Institute, Nijmegen, The Netherlands

D2 Beat gestures modulate the processing focused and non-focused words in context Diana Dimitrova^{1,2}, Mingyan Chu³, Lin Wang⁴, Asli Özyürek^{2,3}, Peter Hagoort^{1,3}; ¹Donders Institute for Brain, Cognition and Behaviour, Centre for Cognitive Neuroimaging, ²Centre for Language Studies, Radboud University Nijmegen, ³Max Planck Institute for Psycholinguistics, ⁴Institute of Psychology, Chinese Academy of Sciences

D3 Taking the listener into account: Computing common ground requires mentalising Flora Vanlangendonck^{1,2}, Roel M. Willems^{1,3}, Peter Hagoort^{1,3}; ¹Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, The Netherlands, ²International Max Planck Research School for Language Sciences, Nijmegen, The Netherlands, ³Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

D4 Behavioral and Neurophysiological Correlates of Communicative Intent in the Production of Pointing Gestures David Peeters^{1,2}, Mingyuan Chu¹, Judith Holler¹, Peter Hagoort^{1,2}, Asli Özyürek^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²Radboud University, Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands

D5 Pointing kinematics: how communicative knowledge influences motor behavior Anke Murillo Oosterwijk^{1,2}, Arjen Stolk¹, Miriam de Boer¹, Frank Hartmann^{1,2}, Ivan Toni¹, Lennart Verhagen^{1,3}; ¹Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, the Netherlands, ²Erasmus University Rotterdam, Erasmus Research Institute of Management, Accounting, the Netherlands, ³University of Oxford, Department of Experimental Psychology, United Kingdom

D6 Bidirectional syntactic priming: How much your conversation partner is primed by you determines how much you are primed by her Lotte Schoot¹, Peter Hagoort^{1,2}, Katrien Segaert^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands

Auditory Perception, Speech Perception, Audiovisual Integration

D7 Inside speech: neural correlates of audio-lingual speech perception Avril Treille¹, Coriandre Vilain¹, Thomas Hueber¹, Jean-Luc Schwartz¹, Laurent Lamalle², Marc Sato¹; ¹GIPSA-lab, Département Parole & Cognition, CNRS & Grenoble Université, Grenoble, France, ²Inserm US 17 / UMS IRMaGE, Université Grenoble-Alpes et CHU de Grenoble / CNRS UMS 3552, Unité IRM 3T Recherche, Grenoble, France

D8 Putting the text in neural context: Short term experiential reorganization of language and the brain Jeremy I Skipper¹, Alexandra Arenson, Charlotte Cosgrove, Jane Hannon; ¹University College London, ²Hamilton College, ³Hamilton College, ⁴Hamilton College

D9 Listening to natural speech: effects of auditory stimulus rhythmicity and content on MEG power spectra Anna Maria Alexandrou^{1,2}, Timo Saarinen^{1,2}, Jan Kujala^{1,2}, Riitta Salmelin^{1,2}; ¹Brain Research Unit, O.V. Lounasmaa Laboratory, Aalto University, Espoo, Finland, ²Aalto NeuroImaging, Aalto University, Espoo, Finland

D10 Chasing Language Through the Brain: Three Successive Parallel Networks Vernon Leo Towle¹, G. Kavya Minama Reddy¹, Zhongtian Dai¹, Weili Zheng¹, David Brang², Scott Hunter¹, Michael H. Kohrman¹, Charles J. Marcuccilli¹, James X. Tao¹, Marvion A. Rossi³, David M. Frim¹, Richard W. Byrne³; ¹The University of Chicago, ²Northwestern University, ³Rush University

D11 Confronting functional and neural models of speech comprehension and production Lou Boves¹, Mirjam Ernestus^{1,2}, Louis ten Bosch¹; ¹Centre for Language Studies, Radboud University Nijmegen, ²Max Planck Institute for Psycholinguistics, Nijmegen

D12 Is there a causal influence of motor cortex on comprehending single spoken words? Evidence from single-pulse TMS Malte R. Schomers^{1,2}, Friedemann Pulvermüller^{1,2}; ¹Brain Language Laboratory, Department of Philosophy and Humanities, Freie Universität Berlin, Berlin, Germany, ²Berlin School of Mind and Brain, Humboldt-Universität zu Berlin, Berlin, Germany

D13 Finger-tracking in spoken language perception reveals phonological competition Anne Bauch¹, Ulrike Schild¹, Claudia K. Friedrich¹; ¹University of Tuebingen

D14 Disrupted Functional Connectivity of Left Pars Opercularis During Viewing of Animated vs. Human Speech E. Susan Duncan¹, Steven L. Small¹; ¹University of California, Irvine

D15 Abstract linguistic rules are detected early in processing Júlia Monte-Ordoño¹, Juan M. Toro^{1,2}; ¹Universitat Pompeu Fabra, ²ICREA

D16 Neural correlates of acoustic and linguistic contributions to listening effort during speech comprehension

Yune-Sang Lee¹, Jonathan Peelle², Chad Rogers³, Nam Eun Min⁴, Arthur Wingfield⁵, Murray Grossman⁶;
¹a. Department of Neurology, University of Pennsylvania, ²b. Department of Otolaryngology, Washington University in St. Louis, ³c. Volen National Center for Complex Systems, Brandeis University, ⁴a. Department of Neurology, University of Pennsylvania, ⁵c. Volen National Center for Complex Systems, Brandeis University, ⁶a. Department of Neurology, University of Pennsylvania

D17 Musical consonance modulates rule learning

Paola Crespo-Bojorque¹, Juan M. Toro^{1,2}; ¹Universitat Pompeu Fabra, ²ICREA

D18 Prosody provides cues to morphosyntactic structure: an EEG-fMRI study of neural networks subserving Swedish word tone processing

Pelle Soderstrom¹, Merle Horne¹, Peter Mannfolk¹, Yury Shtyrov², Mikael Johansson¹, Mikael Roll¹; ¹Lund University, ²Aarhus University

Motor Control, Speech Production, Sensorimotor Integration

D19 Exploring Neural Networks Associated with Silent and Overt Reading: A Graphical Model Approach

Jacqueline Cummine^{1,2}, Ivor Cribben³, Wahab Hanif¹, Reyhaneh Bahktari¹, Carol A. Boliek^{1,2}; ¹1. Department of Communication Sciences and Disorders, Faculty of Rehabilitation Medicine, University of Alberta, Canada, ²2. Centre for Neuroscience, University of Alberta, Canada, ³3. Department of Finance and Statistical Analysis, University of Alberta, Canada

D20 Dynamics of response planning in word typing : Evidence for inhibition

Svetlana Pinet¹, Carlos Hamame¹, Marieke Longcamp¹, Franck Vidal¹, F.-Xavier Alario¹; ¹Aix-Marseille Université, CNRS

D21 Two distinct auditory-motor circuits for monitoring speech production as revealed by content-specific suppression of auditory cortex

Sari Ylinen^{1,2}, Anni Nora^{1,3}, Alina Leminen^{1,6}, Tero Hakala¹, Minna Huottilainen^{1,4,5}, Yury Shtyrov^{6,7,8}, Jyrki P. Mäkelä², Elisabet Service^{1,9}; ¹University of Helsinki, ²Hospital District of Helsinki and Uusimaa, ³Aalto University, ⁴University of Jyväskylä, ⁵Finnish Institute of Occupational Health, ⁶Aarhus University, ⁷University of Lund, ⁸Medical Research Council, ⁹McMaster University

D22 Time course of phonological encoding in Cantonese di-syllabic word production: An ERP study

Andus Wing-Kuen Wong¹, Ning Ning², Hezul Ng³, Jian Huang³, Hsuan-Chih Chen³; ¹Department of Applied Social Sciences, City University of Hong Kong, Hong Kong S. A. R., ²School of Education, Soochow University, Suzhou, China, ³Department of Psychology, Chinese University of Hong Kong, Hong Kong S. A. R.

D23 Mapping the cortical representation of speech sounds during syllable repetition

Christopher J. Johnson¹, Jason W. Bohland¹; ¹Boston University, Boston, MA USA

D24 Sequence Processing In A Covert Speech Repetition Network

Feng Rong¹, Erica Sun¹, A. Lisette Isenberg¹, Gregory Hickok¹; ¹Auditory & Language Neuroscience Lab, Department of Cognitive Sciences, University of California, Irvine

D25 Mapping left hemisphere language networks by navigated TMS: a psycholinguistic parametric modulation approach

Noriko Tanigawa^{1,3}, Sandro M. Krieg², Phiroz E. Tarapore³, John Houde³, Srikantan Nagarajan³; ¹University of Oxford, ²Technical University of Munich, ³University of California, San Francisco

D26 EEG Pattern Classification of Semantic and Syntactic Influences on Subject-Verb Agreement in Production

Dan Acheson^{1,2}, Alma Veenstra¹, Antje Meyer¹, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, ²Donders Institute for Brain, Cognition and Behaviour

Language Development, Plasticity, Multilingualism

D27 Advancing the understanding of neural substrates of language learning success using ERP and DTI data

Olga Kepinska^{1,2}, Ferdi van de Kamp^{2,3}, Johanneke Caspers^{1,2}, Niels O. Schiller^{1,2}; ¹Leiden University Center for Linguistics, ²Leiden Institute for Brain and Cognition, ³Utrecht University

D28 Bilingualism at the core of the brain. Plasticity effects of language experience on subcortical structures

Miguel Burgaleta¹, Ana Sanjuan^{2,3}, Noelia Ventura², Nuria Sebastian-Galles¹, Cesar Avila²; ¹Universitat Pompeu Fabra, ²Jaume I University, ³University College of London

D29 Age effects in L2 grammar processing and how (not) to study them

Nienke Meulman¹, Martijn Wieling^{1,2}, Simone A. Sprenger¹, Laurie A. Stowe¹, Monika S. Schmid^{1,3}; ¹University of Groningen, ²University of Tübingen, ³University of Essex

D30 Assessing language lateralisation in preschoolers using functional transcranial Doppler sonography

Heather Payne^{1,2}, Bencie Woll², Mairead MacSweeney^{1,2}; ¹Institute of Cognitive Neuroscience, University College London, ²Deafness, Cognition & Language Research Centre, University College London

D31 Temporal Dynamics of EEG Topographic Similarity during Successful Language Learning

Zhengan Qi¹, Amy Finn¹, Satrajit Ghosh¹, Jennifer Minas¹, Brian Chan¹, John Gabrieli¹; ¹Massachusetts Institute of Technology

D32 The role of expertise in simultaneous interpreting: an fMRI study

Hyeonjeong Jeong¹, Keiko Tatsumi¹, Motoaki Sugiura¹, Hiroshi Hashizume², Wataru Suzuki³, Ryuta Kawashima¹; ¹Department of Functional Brain Imaging, IDAC, Tohoku University, ²Division of Developmental Cognitive Neuroscience, IDAC, Tohoku University, Sendai, Japan, ³Department of English Education, Miyagi University of Education

D33 Optimizing word learning via sensorimotor information

Lea Hald¹, Marianne van den Hurk¹, Harold Bekkering¹; ¹Radboud University Nijmegen

D34 Inhibitory control mechanisms of bilinguals in language production

Eva Van Assche¹, Wouter Duyck¹, Tamar H. Gollan²; ¹Ghent University, ²University of California, San Diego

D35 Vedic Pandits dedicated to oral memorization/recitation of Sanskrit texts show anatomical reorganization of language, memory and visual systems

James Hartzell¹, Ben Davis¹, David Melcher¹, Gabriele

Miceli¹, Jorge Jovicich¹, Tanmay Nath², Nandini Chatterjee Singh², Uri Hasson¹; ¹University of Trento, Italy, ²National Brain Research Centre, India

Orthographic Processing, Writing, Spelling

D36 Another Sub-lexical Unit of Representation in Reading Chinese? The Logographeme Number Effect

I-Fan Su¹, Hiu-Ching Sar¹, Lok-Lam Chua¹; ¹The University of Hong Kong

Language Development, Plasticity, Multilingualism

D37 Assimilation and accommodation in non-native reading networks: Evidence from Korean-Chinese-English multilinguals

Say Young Kim¹, Fan Cao²; ¹Nanyang Technological University, ²Michigan State University

D38 Reading in the brain of children and adults: a meta-analysis of 40 functional magnetic resonance imaging studies

Fabio Richlan¹, Anna Martin¹, Matthias Schurz¹, Martin Kronbichler^{1,2}; ¹University of Salzburg, ²Paracelsus Medical University

D39 Masked language switch cost effects: now you see them, now you don't

Aina Casaponsa¹, Eneko Antón¹, Manuel Carreiras^{1,2,3}, Jon Andoni Duñabeitia¹; ¹Basque Centre on Cognition, Brain and Language, ²Ikerbasque, Basque Foundation for Science, ³University of the Basque Country EHU/UPV

D40 Neural Systems for Reading Chinese Character: A Multiparametric Approach

Jianfeng Yang¹, Xiaojuan Wang¹, Hua Shu², Jason D. Zevin³; ¹School of Psychology, Shaanxi Normal University, Xi'an, China, ²State Key laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China, ³University of Southern California, Los Angeles, CA, USA

D41 Cross-language difference of the Neural Systems for Reading at word and story level

Xiaojuan Wang¹, Jianfeng Yang¹, Jason D. Zevin², Hua Shu³; ¹School of Psychology, Shaanxi Normal University, Xi'an, China, ²University of Southern California, Los Angeles, CA, USA, ³State Key laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China

D42 Brain activation during novel word encoding predicts lexical integration

Iske Bakker^{1,2}, Atsuko Takashima^{1,2}, Janet Van Hell^{3,2}, Gabriele Janzen^{1,2}, James M. McQueen^{1,2,4}; ¹Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, ²Behavioural Science Institute, Radboud University Nijmegen, ³Pennsylvania State University, ⁴Max Planck Institute for Psycholinguistics, Nijmegen

D43 Neural Correlates of Emerging Readers in L2: A Bi-directional Approach Using Hebrew and English

Daniel Sharoh¹, W. Einar Mencl^{1,2}, Jay Reuckl^{1,3}, Peter J. Molfese¹, Steve Frost¹, Ram Frost⁴, Julie Van Dyke¹, Kenneth R. Pugh^{1,2,3}; ¹Haskins Laboratories, ²Yale University, ³University of Connecticut, ⁴Hebrew University

D44 Intrinsic Connectivity to the Visual Word Form Area and the Putative Visual Number Area

Tanya Evans¹, John Kochalka¹, Vinod Menon¹; ¹Stanford University

Lexical Semantics

D45 Learning the meaning of words: a neurocomputational account of semantic category-specificity and semantic hubs

Max Garagnani^{1,2}, Friedemann Pulvermüller¹; ¹Brain Language Laboratory, Freie Universität Berlin, Berlin (Germany), ²Centre for Robotics and Neural Systems, University of Plymouth, Plymouth (UK)

D47 The Effects of Age of Acquisition and Familiarity on Semantic Memory

Amanda Garcia¹, Jinyi Hung¹, Jamie Reilly^{1,2}; ¹University of Florida, ²Temple University

D48 The contribution of posterior middle temporal gyrus in semantic development: evidence from a longitudinal study

Shu-Hui Lee¹, Tai-Li Chou¹; ¹National Taiwan University

D49 Measures of white matter integrity explain age-related differences in non-verbal fluid intelligence

Michele T. Diaz^{1,2}, Micah A. Johnson¹, Deborah M. Burke³, David J. Madden¹; ¹Duke University School of Medicine, ²Pennsylvania State University, ³Pomona College

D50 Individual variability in a cortical semantic hub

Michael Bonner¹, Jonathan Peelle², Amy Price¹, Murray Grossman¹; ¹University of Pennsylvania, ²Washington University in St. Louis

D51 Theta and beta changes related to learning new words from linguistic context

Mandy Maguire¹, Alyson Abel¹; ¹University of Texas at Dallas

D52 The impact of acute, moderate-intensity exercise on new word learning in healthy older adults: An exploratory investigation

Amy Rodriguez^{1,2}, Joe Nocera^{3,4}, Benjamin Fox², David MacDonald², David Copland^{1,2}; ¹NHMRCCRE in Aphasia Rehabilitation, ²The University of Queensland, ³VARRD Center for Visual and Neurocognitive Rehabilitation, ⁴Emory University

D53 Shaving bridges & tuning kitaraa: How code-switching affects semantic integration (N400) in second-language learners

Suzanne C. A. Hut¹, Alina Leminen^{1,2}; ¹Cognitive Brain Research Unit, Cognitive Science, Institute of Behavioural Sciences, University of Helsinki, Finland, ²Center of Functionally Integrative Neuroscience, Department of Clinical Medicine, Aarhus University, Denmark

D54 Default-mode network connectivity predicts response to semantic therapy in cases of anomia

Francis Tremblay^{1,2}, Edith Durand^{1,2,3}, Karine Marcotte^{1,2,3}, Ana Inés Ansaldo^{1,2}; ¹Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montréal, Québec, Canada, ²École d'orthophonie et d'audiologie de l'Université de Montréal, Montréal, Québec, Canada, ³Centre de recherche de l'Hôpital du Sacré-Cœur de Montréal, Montréal, Québec, Canada

D55 Investigating Broca's and Wernicke's area involvement in metaphor processing: A tDCS study

Ekaterini Klepousniotou¹, Celia Wild¹, Mark Mon-Williams¹; ¹University of Leeds

D59 Evidence for the causal role of left motor areas for processing abstract and concrete words – a dual case study on brain tumor patients

Felix R. Dreyer¹, Dietmar Frey², Thomas Picht², Peter Vajkoczy², Friedemann Pulvermüller¹; ¹Freie Universität Berlin, ²Charité Hospital, Berlin

D60 Constructing the white matter networks of semantic processing with healthy and patient populations Yanchao Bi¹, Yuxing Fang¹, Suyu Zhong¹, Gaolang Gong¹, Luping Song², Zaizhu Han¹; ¹State Key Laboratory of Cognitive Neuroscience and Learning & IDG/McGovern Institute for Brain Research, Beijing Normal University, Beijing, China, 100875, ²Rehabilitation College and China Rehabilitation Research Center, Capital Medical University, Beijing, China, 100038

Discourse, Combinatorial Semantics

D61 Neural correlates of speech preparation in interactive turn-taking: An early start? Sara Bögers¹, Lilla Magyari¹, Stephen Levinson^{1,2}; ¹Max Planck Institute for Psycholinguistics, ²Donders Institute for Brain, Cognition, and Behaviour

D62 Overlap between Language processing areas and sensory-motor maps Mariam Sood¹, Martin. I. Sereno^{1,2}; ¹Department of Psychological Sciences, Birkbeck, University of London, ²Cognitive, Perceptual and Brain Sciences, University College London

D63 The storyteller's brain: Patterns of activation and deactivation during the creation of narrative fiction differentially modulate narrative structure and predict audience engagement Yisheng Xu¹, Katherine Swett², Nuria Abdulsabur¹, Michael Erkkonen³, Raymond Mar⁴, Siyuan Liu¹, Allen Braun¹; ¹Language Section, NIDCD, NIH, Bethesda MD, ²Dept. of Neuroscience, Vanderbilt University, Nashville TN, ³Dept. of Neurology, Massachusetts General Hospital, Boston MA, ⁴Dept. of Psychology, York University, Toronto, Canada

D65 What does it take to tell a good story? The relation between narrative skills and neuropsychological factors in 3rd graders Janne von Koss Torkildsen¹, Wenche A. Helland^{2,3,5}, Frøydis Morken², Turid Helland^{2,4,5}; ¹University of Oslo, ²University of Bergen, ³Helse Fonna, ⁴University of Tromsø, ⁵Statped Vest

Syntax, Morphology

D66 Priming of transparent derived verbs in L2 speakers: An fMRI study Sophie De Grauwe¹, Kristin Lemhöfer¹, Roel M. Willems^{1,2}, Herbert Schriefers¹; ¹Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands, ²Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

D67 Activation modulation in the left inferior frontal gyrus caused by scrambled word orders: An fMRI study in Kaqchikel Maya Shinri Ohta^{1,2}, Masatoshi Koizumi³, Kuniyoshi L. Sakai^{1,2}; ¹The University of Tokyo, ²CREST, JST, ³Tohoku University

D68 First language effects on second language processing of grammatical gender: An ERP-study Sanne M. Berends¹, Laurie A. Stowe¹, Monika S. Schmid^{1,2}; ¹University of Groningen, ²University of Essex

D69 "Right now, Sophie *swims in the pool?!" processing of grammatical aspect in native and second language readers Kelly Walbert¹, Monique Flecken²; ¹Radboud University Nijmegen, ²Donders Institute for Brain Cognition and Behaviour, Radboud University Nijmegen

D70 How does the old support the new? The role of memory consolidation in learning novel morphological forms Jelena Mirkovic¹, Gareth Gaskell¹; ¹University of York

D71 Linguistic Rule Representation in the Bilingual Brain Roy Seo¹, Andrea Stocco^{1,2}, Jose Ceballos^{1,2}, Chantel Prat^{1,2}; ¹University of Washington, Seattle, Washington, USA, ²Institute for Learning and Brain Sciences, University of Washington, Seattle, Washington, USA

D73 The processing of regular and irregular verbs at early stages of L2 development: an ERP study Mailce Borges Mota¹, Natalia Resende¹, Aline Gesualdi Manhães²; ¹Federal University of Santa Catarina, Brazil, ²Federal Center for Technological Education, Brazil

Language Disorders

D74 Communicative strategies and discourse processing in alzheimer's disease Gislaïne Machado Jerônimo¹, Bruna Tessaro¹, Lilian Cristine Hübner¹; ¹Pontifical Catholic University of Rio Grande do Sul (PUCRS)

D75 A dual-route account of object knowledge deficits in primary progressive aphasia Robert Hurley¹, Emily Rogalski¹, Marsel Mesulam¹, Cynthia Thompson¹; ¹Northwestern University

D76 The predictability effect on N400 reflects aging and the severity of reading comprehension deficits in aphasics Chih-ting Chang^{1,2}, Hsin-Chi Wu^{3,4}, Chia-Ju Chou^{1,2}, Jong-Ling Fuh^{1,5}, Chia-Ying Lee^{1,2}; ¹National Yang-Ming University, Taiwan, ²Academia Sinica, Taiwan, ³Taipei Tzu Chi General Hospital, Taiwan, ⁴Tzu Chi University, Taiwan, ⁵Taipei Veterans General Hospital, Taiwan

D77 The Effect of Semantic Constraint and Cloze Probability on Chinese Classifier-Noun Agreement in Aphasia Chia-Ju Chou^{1,2}, Hsin-Chi Wu³, Chih-Ting Chang^{1,2}, Jong-Ling Fuh⁴, Chia-Ying Lee^{1,2}; ¹National Yang-Ming University, Taiwan, ²Academia Sinica, Taiwan, ³Tzu Chi University, Taiwan, ⁴Taipei Veterans General Hospital, Taiwan

D78 Resting connectivity within the right Broca's homolog relates to poor word reading in aphasic patients with left-hemisphere stroke Laura Skipper¹, Elizabeth H. Lacey^{1,2}, Shihui Xing¹, Alexa Desko¹, Mackenzie Fama¹, Xiong Jiang¹, Peter E. Turkeltaub^{1,2}; ¹Georgetown University Medical Center, ²MedStar National Rehabilitation Hospital

D79 Neural circuitries underlying distinct types of verb naming errors in aphasia Maria Ivanova¹, Olga Dragoy¹, Rosa Vlasova¹, Elena Kozintseva^{1,2}, Yulia Akinina¹, Svetlana Malyutina³, Alexey Petrushevsky², Oksana Fedina², Eugene Gutyrchik⁴; ¹National Research University Higher School of Economics, ²Center for Speech Pathology and Neurorehabilitation, ³University of South Carolina, ⁴Ludwig Maximilian University of Munich

D80 Neural Correlates of Verbal Memory and Lexical Retrieval in Logopenic Variant of Primary Progressive Aphasia Khaing Win^{1,3}, John Pluta², Paul Yushkevich², David Volk¹, Murray Grossman^{1,3}; ¹Neuroscience Graduate Group, ²Penn Image Computing and Science Lab, ³Penn Frontotemporal Degeneration Center, Department of Neurology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA.

D81 Lexico-semantic dissociations in patients with brain tumors in the posterior temporal lobe *Adria Rofes^{1,2,4}, Barbara Santini³, Pasquale Mirtuono³, Roberto Foroni³, Giampietro Pinna³, Lyndsey Nickels⁴, Gabriele Miceli²*; ¹International Doctorate for Experimental Approaches to Language And Brain (IDEALAB), ²University of Trento, ³University of Verona, ⁴Macquarie University

D82 Bilateral Temporal Lobe Damage Distinguishes Patients' Anomia Type *Carlos Roncero¹, Howard Chertkow¹*; ¹Lady Davis Institute, Jewish General Hospital, McGill University Health Network

D83 Surface dyslexia is more prominent in semantic variant primary progressive aphasia with left-predominant than with right-predominant temporal lobe atrophy *Richard Binney¹, Maya Henry^{1,2}, Miranda Babiak¹, Maria Luisa Mandelli¹, Alison Dallich¹, Bruce Miller¹, Howard Rosen¹, Maria Luisa Gorno Tempini¹*; ¹University of California, San Francisco, ²University of Texas, Austin

D84 Abbreviated Pyramids and Palm Trees Test Effectively Discriminates Semantic-Variant Progressive Aphasia From Other Variants of Primary Progressive Aphasia *Kara Cohen¹, Corey McMillan¹, Katya Rascovsky¹, Chiadi Onyike², Virginia M.-Y. Lee¹, John Q. Trojanowski¹, Argye Hillis², Murray Grossman¹*; ¹University of Pennsylvania, ²Johns Hopkins University

D85 Using TMS to Predict Language Outcome after Stroke *Diego L. Lorca-Puls¹, Joseph T. Devlin², Mohamed L. Seghier¹, Cathy J. Price¹*; ¹Wellcome Trust Centre for Neuroimaging, Institute of Neurology, University College London, London, UK, ²Experimental Psychology Research Department, Division of Psychology and Language Sciences, University College London, London, UK

D86 Phonological processing of spoken language in beginning readers under the risk of dyslexia: an fMRI study *Magdalena Łuniewska^{1,2}, Anna Banaszkiewicz^{1,2}, Katarzyna Chyl^{1,2}, Agnieszka Dębska^{1,2}, Agata Żelechowska^{1,2}, Marek Wypych¹, Artur Marchewka¹, Katarzyna Jednoróg¹*; ¹Nencki Institute of Experimental Biology, ²University of Warsaw

Poster Session E

Auditory Perception, Speech Perception, Audiovisual Integration

E1 The Effect of Segmental-Tonal Neighborhood Density in Chinese Spoken Word Recognition: An Eye-Tracking Study *Chung-I Erica Su^{1,2}, Paul A. Luce¹*; ¹University at Buffalo, ²Academia Sinica

E2 No Place for [h]: an ERP investigation of English [Place] features *Kevin Schluter¹, Stephen Politzer-Ahles¹, Diogo Almeida¹*; ¹NYU Abu Dhabi

E3 Eye movement evidence of the cohort density effects in Chinese spoken character recognition *Jie-Li Tsai¹*; ¹National Chengchi University, Taiwan

E4 Does the auditory evoked M100 component reflect the assembling of phonological features into natural classes? *Mariya Kharaman¹, Carsten Eulitz¹*; ¹University of Konstanz

E5 Pre-attentive processing of duration contrasts: an MMN study *Sandra Kotzor¹, Adam C. Roberts¹, Allison Wetterlin¹, Aditi Lahiri¹*; ¹University of Oxford

E6 Cross-linguistic differences in automatic perception of allophonic vowel duration *Adam Roberts¹, Sandra Kotzor¹, Allison Wetterlin¹, Aditi Lahiri¹*; ¹University of Oxford

E7 Asymmetry effects on the mismatch response (MMR) to speech sounds: an MEG/ERF study of [t] vs. [d] *Andreas Højlund Nielsen^{1,2,3}, Line Gebauer^{1,2}, William B. McGregor³, Mikkel Wallentin^{1,2,4}*; ¹Center of Functionally Integrative Neuroscience, Aarhus University, ²Interacting Minds Centre, Aarhus University, ³Linguistics, Aarhus University, ⁴Center for Semiotics, Aarhus University

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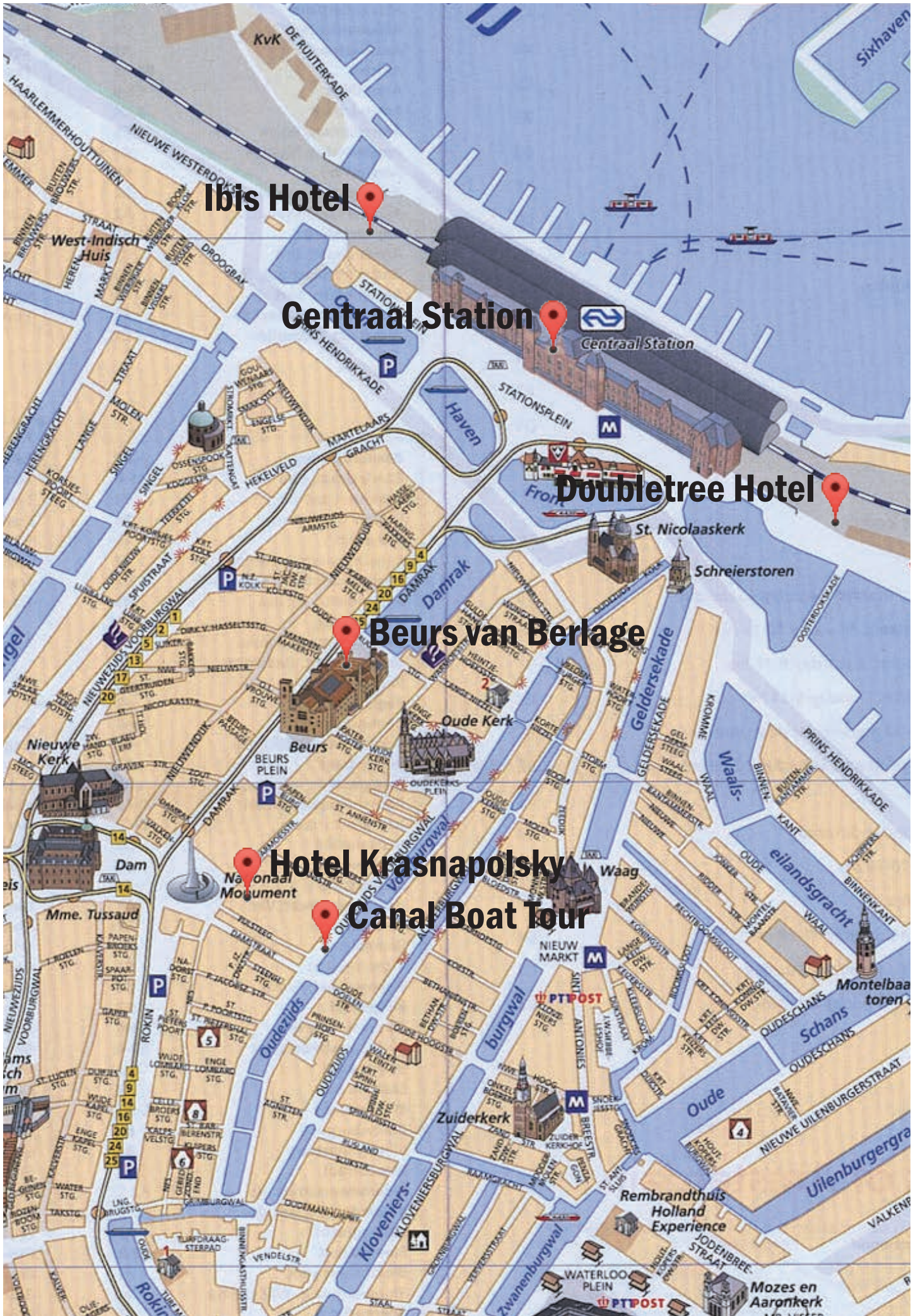
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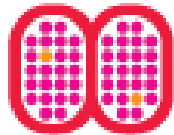
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